



Packaged Rooftops

Precedent™ - R-410A

3-10 Tons – 60 Hz

Packaged Cooling, Heat Pumps (T*C, WSC)



Packaged Gas/Electric (Y*C)





Introduction

Packaged Rooftop Air Conditioners

Figure 1. Packaged Cooling and Heat Pumps



Figure 2. Packaged Gas/Electric



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.

It's Hard To Stop A Trane.®

Table of Contents

Introduction	2
Packaged Rooftop Air Conditioners	2
Features and Benefits	5
Standard Features	5
Options*	6
Other Benefits	7
Standard Features	7
Variety of Options*	10
Factory Installed Options*	10
Factory or Field Installed Options*	12
Field Installed Options*	13
Other Benefits	14
Rigorous Testing	16
Application Considerations	17
Selection Procedure	18
Cooling Capacity	18
Heating Capacity	19
Air Delivery Selection	19
Model Number Description - 3-10 Ton R-410A	20
Model Number Notes	21
General Data	22
Performance Data	36
Direct Drive - Evaporator Fan Performance	58
Evaporator Fan Performance	65
Fan Performance	133
Heating Performance Data	142
Controls	148
ReliaTel™ Controlled Units	148
Electrical Data	151
Jobsite Connections	161
Dimensional Data	162
Weights	174
Mechanical Specifications	176
Factory Installed Options	177

Factory or Field Installed Options	179
Field Installed Options	180

Features and Benefits

Standard Features

- 5-year Limited Compressor Warranty
- 5-year Limited Heat Exchanger Warranty
- 1-year Limited Parts Warranty
- Anti-Short Cycle Timer (Standard with ReliaTel™)
- Colored and Numbered Wiring
- Convertible Airflow
- Crankcase Heaters¹
- Easy Access Low Voltage Terminal Board (LTB)
- Electromechanical² or ReliaTel Microprocessor Controls
- Filters are Standard on all Units
- Foil-Faced and Edge Captured Insulation
- High Pressure Control
- IAQ Dual Sloped and Removable Drain Pans
- Liquid Line Refrigerant Drier
- Low Ambient Cooling to 0°F on Microprocessor Models
- Low Ambient Cooling to 40°F on Electromechanical Models
- Low Pressure Control
- Multispeed Direct Drive Motors
- Operating Charge of R-410A
- Patent-Pending Hybrid Condenser Coil for easy cleaning
- Phase Reversal Protection³
- Progressive Tubular Aluminized Steel Heat Exchanger
- Provisions for Through-the-Base Gas and Condensate Drain Connections
- Quick Access Panels
- Quick Adjust Fan Motor Mounting Plate
- Single Point Power
- Single Side Service
- Standardized Components
- Thermal Expansion Valve
- Trane built Scroll Compressors

¹ Crankcase heaters are optional on: (Y, T)SC(036,048,060)E, WSC036E, WSC048E1, WSC060E1

² Not available for Heat Pumps

³ Only available for 3-5 Ton Direct Drive



Features and Benefits

Options*

Note: *Refer to Model Number Description for option availability.

Factory Installed Options

- Belt Drive Motors¹ (Three-phase)
- Black Epoxy Pre-Coated Coils
- CompleteCoat™ Condenser Coil
- Hinged Access Doors
- Novar Return Air Sensor
- Novar Unit Controls
- Phase Monitor
- Powered or Unpowered Convenience Outlet
- Stainless Steel Heat Exchanger with 10-year warranty
- Supply and/or Return Air Smoke Detector
- Through the Base Electrical Access
- Through the Base Electrical with Circuit Breaker
- Through the Base Electrical with Disconnect Switch
- 2" MERV 7 Filters or 2" MERV 13 Filters

Factory or Field Installed Options

- Barometric Relief
- Clogged Filter/Fan Failure Switch
- Crankcase Heaters
- Discharge Air Sensing Kit
- Economizer
- Electric Heaters
- Froststat
- LonTalk® Communications Interface (LCI)
- Reference or Comparative Enthalpy
- Tool-less Hail Guards
- Trane Communications Interface (TCI)

Field Installed Options

- CO₂ Sensing
- Dual Thermistor Remote Zone Sensor
- High Altitude Kit
- High Static Drive
- LP Conversion Kit
- Manual Outside Air Damper
- Motorized Outside Air Dampers

¹ Standard for 6-10 Ton

- Powered Exhaust
- Quick Adapt Curbs
- Quick Start Kit
- Remote Potentiometer
- Roof Curb
- Thermostat
- Ventilation Override Accessory
- 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

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 13 SEER and 15 SEER R-410A units offer multi-speed, direct drive motors.

Colored And Numbered Wiring

Save time and money tracing wires and diagnosing the unit.

Features and Benefits

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 all 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.

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

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

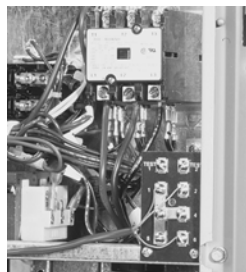
Features and Benefits

Dual Sloped Drain Pans



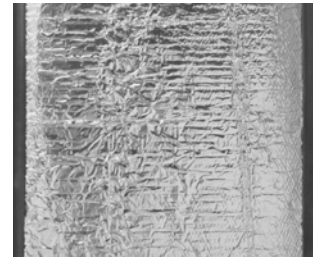
Every Precedent unit has a non-corrosive, removable, double-sloped drain pan that's easy to clean and reversible to allow installation of drain trap on either side of the unit.

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

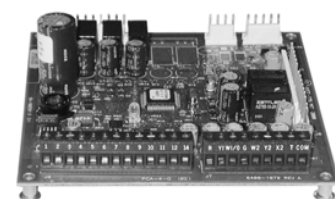
All units include High Pressure Control as standard.

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.

Features and Benefits

Phase Reversal Protection

Precedent units with 3-phase power and direct drive supply fan motors (3-5 ton) are equipped with phase reversal protection. This feature shall provide 100% protection for compressor against problems caused by phase reversal.

Quick-Access Panels

Remove two screws for access to the standardized internal components and wiring.

Quick-Adjust Idler Arm

With the Quick-Adjust Idler Arm, the belt and sheaves can be quickly adjusted without moving the mounted fan motor. The result is a major savings in time and money.

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. Familiarize yourself with one Precedent and you are familiar with every Precedent.

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

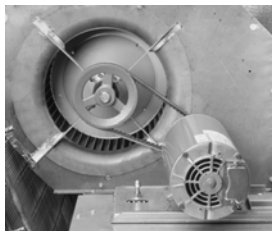
Every unit includes provisions for through the base condensate drain connections. This allows the drain to be connected through the roof curb instead of a roof penetration.

Variety of Options*

Factory Installed Options*

Note: *Refer to Model Number Description for option availability.

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.

Black Epoxy Pre-Coated Coils

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

CompleteCoat™ Condenser Coil

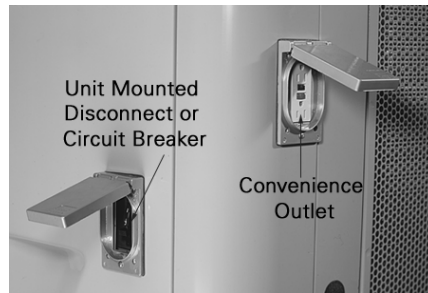
These coils provide excellent corrosion resistance as well as uniformity of coverage and coating thickness.

Disconnect Switch (Available with Through-the-Base Electrical)

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

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 (Required 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.

Novar Unit Controls

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

Phase Monitor

Phase monitor shall provide 100% protection for motors and compressors against problems caused by phase loss, phase imbalance, and phase reversal. Phase monitor is equipped with an LED that provides an ON or FAULT indicator.

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.

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.

Features and Benefits

Supply and/or Return 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. Return Air Smoke Detectors require minimum allowable airflow when used with certain models.

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*

Note: *Refer to Model Number Description for option availability.

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.

Crankcase Heaters

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

Discharge Air Sensing Kit

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

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.

The economizers come with three control options — dry bulb is standard, enthalpy and differential enthalpy are 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.

LonTalk® Communications Interface

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

Reference or Comparative Enthalpy

Measures and communicates humidity while maximizing comfort control.

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.

Trane Communication Interface (TCI)

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

Field Installed Options*

Note: *Refer to Model Number Description for option availability.

CO₂ Sensing

The CO₂ sensor has the ability to monitor space occupancy levels within the building by measuring the parts per million of CO₂ (Carbon Dioxide) in the air. As the CO₂ levels increase, the outside air damper modulates to meet the CO₂ space ventilation requirements. The CO₂ sensor kit is available as a field installed accessory.

Dual Thermistor Remote Zone Sensor

This sensor will reduce the total number of remote sensors to obtain space temperature averaging. This sensor should be utilized with ReliaTel controls.

High Altitude Kit

Previously a Canadian Agency requirement for units applied about 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%.

Features and Benefits

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.

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.

Roof Curbs

Available for downflow units. Only two 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

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.

Easy to Install, Service and Maintain

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

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 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).

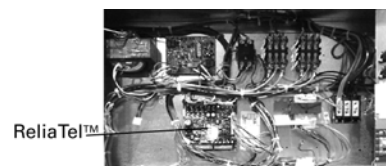
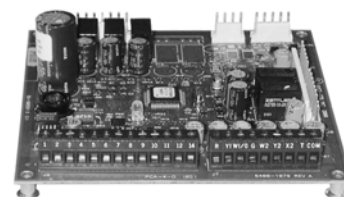
Other ReliaTel Benefits

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.



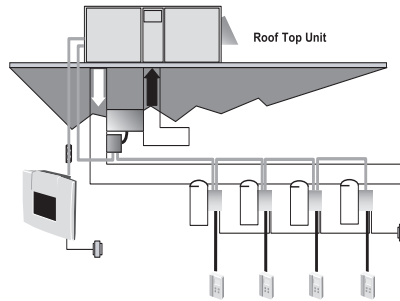
Features and Benefits

The same ReliaTel Board fits all Packaged Gas/Electric, Cooling with Electric Heat, and Heat Pump 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 and is less costly to ship. The beveled and ribbed top is not only aesthetically pleasing, it is designed to prevent water from pooling.

VariTrac – Building Automation System



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

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. 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 575 psig and pressure tested to 450 psig.

All parts are inspected at the point of final assembly. Sub-standard parts are identified and rejected immediately.

Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to 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 system related. Pressure drop of the return air system should be considered to control building pressurization.*

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.*

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.

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 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, froststat.

Contact your 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.

Whenever high outside air or outside applications exist, these options should be utilized.

Unit Pitch

These units have reversible sloped condensate drain pans. Units 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. 41 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 115, p. 137	0.049 wg
Economizer from Table 115, p. 137 (100% Outside Air) *worst case	0.105 wg
Electric Heater Size 6 kW from Table 115, p. 137 (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 34, p. 62 has deducted the pressure drop for a filter already in the unit (see note below Table 34, p. 62). Therefore, the actual total static pressure is 0.535 - 0.049 (from Table 115, p. 137) = 0.486 wg.

With 2000 cfm and 0.5 wg.

[Table 34, p. 62](#) shows 0.575 bhp for this unit.

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

$$2.87 \times \text{bhp} + 0.75 = \text{MBh.}$$

$$2.87 \times 0.575 + 0.15 = 1.8 \text{ MBh.}$$

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

Net Total Cooling Capacity

$$= 62.3 \text{ MBh} - 1.8 = 60.5 \text{ MBh.}$$

Net Sensible Cooling Capacity

$$= 48.1 \text{ MBh} - 1.8 = 46.3 \text{ MBh.}$$

Subtracting Sensible from Total Capacity to find Latent Capacity

Net Latent Capacity

$$= 60.5 - 46.3 = 14.2 \text{ MBh.}$$

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 118, p. 139](#). 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 120, p. 140](#) 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 116, p. 137](#). 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 54, p. 82](#) for a TSC063E4 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.



Model Number Description - 3-10 Ton R-410A

Digit 1 - Unit Type

- T DX Cooling
- Y DX Cooling, Gas Heat
- W Packaged Heat Pump^{2,4}

Digit 2 - Efficiency

- S Standard Efficiency (13 SEER R-410A)
- H High Efficiency (15 SEER R-410A)

Digit 3 - Airflow

- C Convertible

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

- | | |
|-----|---------------------------|
| 036 | 3 Tons |
| 048 | 4 Tons |
| 060 | 5 Tons |
| 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

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 Electromechanical¹
- R ReliaTel™ Microprocessor

Digit 10 - Heating Capacity

- | | |
|--------------------------------|--------------------------------|
| 0=No Electric Heat | E=12 kW (3 phase) |
| A=5 kW (1 phase) ² | F=14 kW (1 phase) ² |
| B=6 kW (3 phase) | G=18 kW (1&3 phase) |
| D=10 kW (1 phase) ² | J=23 kW (3 phase) |

Note: Applicable to Digit 1, Y models only.

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

Digit 11 - Minor Design Sequence

- A First Sequence

Digit 12,13 - Service Sequence

** Factory Assigned

Digit 14 - Fresh Air Selection

- 0 No Fresh Air
- A Manual Outside Air Damper 0-50%⁵
- B Motorized Outside Air Damper 0-50%
- C Economizer, Dry Bulb 0-100% without Barometric Relief⁸
- D Economizer, Dry Bulb 0-100% with Barometric Relief⁸
- E Economizer, Reference Enthalpy 0-100% without Barometric Relief^{4,8}
- F Economizer, Reference Enthalpy 0-100% with Barometric Relief^{4,8}
- G Economizer, Comparative Enthalpy 0-100% without Barometric Relief^{4,8}
- H Economizer, Comparative Enthalpy 0-100% with Barometric Relief^{4,8}

Digit 15 - Supply Fan/Drive Type/Motor

- 0 Standard Drive⁷
- 2 Optional Belt Drive Motor²⁰

Digit 16 - Hinged Service Access/ Filters

- 0 Standard Panels/Standard Filters
- A Hinged Access Panels/Standard Filters
- B Standard Panels/2" MERV 7 Filters
- C Hinged Access Panels/2" MERV 7 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
- 3 Black Epoxy Pre-Coated Condenser Coil with Hail Guard
- 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 Electric⁹

Note: Applicable to Digit 1, Y models only

- B Through the Base Gas Piping
- C Through the Base Electric and Gas Piping¹⁷

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

- 0 No Disconnect/No Circuit Breaker No Phase Monitor²¹
- 1 Unit Mounted Non-Fused Disconnect⁹
- 2 Unit Mounted Circuit Breaker⁹
- 3 Phase Monitor^{21,22}
- 4 Phase Monitor & Non-Fused Disconnect Switch^{9,21,22}
- 5 Phase Monitor & Circuit Breaker^{9,21,22}

Digit 20 - Convenience Outlet

- 0 No Convenience Outlet
- A Unpowered Convenience Outlet
- B Powered Convenience Outlet (three-phase only)¹⁰

Digit 21 - Communications Options⁴

- 0 No Communications Interface
- 1 Trane Communications Interface
- 2 LonTalk® Communications Interface
- 3 Novar 2024 Controls¹
- 4 Novar 3051 Controls without Zone Sensor¹

Digit 22 - Refrigeration System Option

- 0 Standard Refrigeration System¹¹

Digit 23 - Refrigeration Controls

Note: Applicable to Digit 7 = E

- 0 No Refrigeration Control¹⁶
- 1 Froststat¹²
- 2 Crankcase Heater³
- 3 Froststat¹² and Crankcase Heater³

Digit 24 - Smoke Detector¹⁸

- 0 No Smoke Detector
- A Return Air Smoke Detector^{13,14}
- B Supply Air Smoke Detector
- C Supply and Return Air Smoke Detectors^{13,14}

Digit 25 - Monitoring Controls

- 0 No Monitoring Control¹⁵
- 1 Clogged Filter Switch¹⁵
- 2 Fan Failure Switch¹⁵
- 3 Discharge Air Sensing Tube¹⁵
- 4 Clogged Filter Switch and Fan Fail Switch¹⁵
- 5 Clogged Filter Switch and Discharge Air Sensing Tube¹⁵
- 6 Fan Fail Switch and Discharge Air Sensing Tube¹⁵
- 7 Clogged Filter and Fan Fail Switches and Discharge Air Sensing Tube¹⁵
- 8 Novar Return Air Sensor¹⁶
- 9 Novar 3051 Zone Sensor²³

Model Number Description - 3-10 Ton R-410A

Model Number Notes

1. Not available for 3-5 tons, R-410A Heat Pumps.
2. Available on 3-5 Standard Efficiency.
3. Standard on all 15 SEER and 4-5 Ton E3,4,W Heat Pumps and all 6-10 Ton units.
4. Not available with electromechanical controls.
5. Manual outside air damper will ship factory supplied within the unit, but must be field installed.
6. High pressure control is standard on all units.
7. Multispeed direct drive standard on single-phase and 15 SEER products. Belt drive standard on three-phase 13 SEER and 6-10 Ton products.
8. 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.
9. Through the base electric required when ordering disconnect/circuit breaker options.
10. Requires use of Disconnect or Circuit Breaker.
11. Standard metering devices are TXVs.
12. Froststat cannot be field installed in electro-mechanical units.
13. 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.
14. Return Air Smoke Detector cannot be ordered with Novar Controls.
15. These options are standard when ordering Novar Controls.
16. This option is used when ordering Novar Controls.
17. Includes gas piping and shutoff (field assembly required).
18. Not available with high temperature duct sensor accessory.
19. Requires hinged access panels.
20. Belt Drive optional on three-phase 15 SEER, R-410A units.
21. Phase Reversal protection is standard on 3-5 ton units with Direct Drive and 3 phase power.
22. Available on Belt Drive (3-10) tons.
23. Novar Sensor utilized with Digit 21 = (4) Novar 3051 Controls without Zone Sensor.



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
SEER ^(b)	13.0	13.0	13.0	13.0
Nominal cfm/ARI Rated cfm	1,200/1,200	1,200/1,200	1,600/1,600	1,600/1,600
ARI 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
Tube Size (in.) OD	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	10.96	9.59	10.96	10.96
Rows/FPI	2/17	2/17	2/17	2/17
Indoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
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.)	1 3/4 NPT	1 3/4 NPT	1 3/4 NPT	1 3/4 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.)	1/11x11	1/11x11	1/11x11	1/11x11
Drive Type/Number Speeds	Direct/5	Belt/Variable	Direct/5	Belt/Variable
Number Motors	1	1	1	1
Motor hp	0.75	1.0	1.0	1.0
Motor Frame Size	48	56	48	56
Filters^(d)				
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x1	(2) 20x30x1	(2) 20x30x1	(2) 20x30x1
Refrigerant Charge^(e)				
Pounds of R-410A	6.3	6.3	7.4	7.4

continued on next page

General Data

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^(f)				
(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 %^(g)				
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)	4.5/10.5	4.5/10.5	4.5/10.5	4.5/10.5
LP (minimum/maximum)	10.0/13.0	10.0/13.0	10.0/13.0	10.0/13.0
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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(d) Optional 2" MERV 7 and MERV 13 filters also available.

(e) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(f) 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.

(g) AFUE is rated in accordance with DOE test procedures.

General Data

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
SEER ^(b)	13.0	13.0
Nominal cfm/ARI Rated cfm	2,000/2,000	2,000/2,000
ARI 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
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	10.96	10.96
Rows/FPI	3/17	3/17
Indoor Coil		
Type	Lanced	Lanced
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.)	1/11x11	1/11x11
Drive Type/Number Speeds	Direct/5	Belt/Variable
Motor hp	1.0	1.0
Motor Frame Size	48	56
Filters^(d)		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x1	(2)20x30x1
Refrigerant Charge ^(e)		
Pounds of R-410A	9.5	9.4

continued on next page

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

	5 Tons	
	T / YSC060E1	T / YSC060E3,4,W
Heating Performance^(f)		
(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 % ^(g)		
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)	4.5/10.5	4.5/10.5
LP (minimum/maximum)	10.0/13.0	10.0/13.0
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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(d) Optional 2" MERV 7 and MERV 13 filters also available.

(e) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(f) 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.

(g) AFUE is rated in accordance with DOE test procedures.



General Data

Table 3. General data - 6-10 tons - standard efficiency

	6 Tons	7 ½ Tons	8 ½ Tons	10 Tons
	T / YSC072E3,4,W	T / YSC092E3,4,W	T / YSC102E3,4,W	T / YSC120E3,4,W
Cooling Performance^(a)				
Gross Cooling Capacity	75,000	94,000	102,000	118,000
EER ^(b)	11.2	11.2	11.2	10.6
Nominal cfm/ARI Rated cfm	2,400/2,100	3,000/2,625	3,400/2,975	4,000/3,500
ARI Net Cooling Capacity	71,200	89,300	96,600	110,300
Integrated Part Load Value ^(c)	—	12.5	12.5	12.0
System Power (kW)	6.36	7.97	8.62	10.4
Compressor				
Number/Type	1/Scroll	2/Scroll	2/Scroll	2/Scroll
Sound				
Outdoor Sound Rating (dB) ^(d)	89	87	86	86
Outdoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size (in.) OD	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	17	19.83	19.83	27.21
Rows/FPI	3/17	3/17	3/17	3/17
Indoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	9.89	12.36	12.36	12.36
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.)	1 ¼ NPT	1 ¼ NPT	1 ¼ NPT	1 ¼ NPT
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
cfm	6,037	6,610	6,610	7,057
Motor hp	0.7	0.75	0.75	0.75
Motor rpm	1,100	1,100	1,100	1,100
Indoor Fan				
Type (Standard)	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1/12x12	1/15x15	1/15x15	1/15x15
Drive Type/Number Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor hp (Standard/Oversized)	1.0/2.0	2.0/3.0	2.0/3.0	3.0/5.0
Motor Frame Size (Standard/Oversized)	56/56	56/56	56/56	56/56
Filters^(e)				
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 20x25x2	(4) 20x25x2	(4) 20x25x2
Refrigerant Charge ^(f)				
Pounds of R-410A	10.5	7.12/6.62	8.37/7.56	12.25/7.03

continued on next page

General Data

Table 3. General data - 6-10 tons - standard efficiency (continued)

	6 Tons	7 ½ Tons	8 ½ Tons	10 Tons
	T/YSC072E3,4,W	T/YSC092E3,4,W	T/YSC102E3,4,W	T/YSC120E3,4,W
Heating Performance^(g)				
(Gas/Electric Only)				
Heating Input				
Low Heat Input (Btu)	80,000	120,000	120,000	150,000/105,000
Mid Heat Input (Btu)	120,000	150,000/105,000	150,000/105,000	200,000/140,000
High Heat Input (Btu)	150,000/105,000	200,000/140,000	200,000/140,000	250,000/175,000
Heating Output				
Low Heat Input (Btu)	64,800	97,200	97,200	121,500/85,000
Mid Heat Input (Btu)	97,200	121,500/85,000	121,500/85,000	162,000/113,000
High Heat Input (Btu)	121,500/85,000	160,000/112,000	160,000/112,000	202,500/141,800
AFUE%^(h)				
Low Heat Input (Btu)	81	81	81	81
Mid Heat Input (Btu)	81	81	81	81
High Heat Input (Btu)	81	81	81	81
Steady State Efficiency %				
Low Heat Input (Btu)	81	81	81	81
Mid Heat Input (Btu)	81	81	81	81
High Heat Input (Btu)	81	80	80	81
No. Burners				
Low Heat Input (Btu)	2	3	3	3
Mid Heat Input (Btu)	3	3	3	4
High Heat Input (Btu)	3	4	4	5
No. Stages				
Low Heat Input (Btu)	1	1	1	2
Mid Heat Input (Btu)	1	2	2	2
High Heat Input (Btu)	2	2	2	2
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)	10.0/14.0	10.0/14.0	10.0/14.0	10.0/14.0
Gas Connection Pipe Size (in)				
Low Heat	1/2	1/2	1/2	3/4
Mid Heat	1/2	3/4	3/4	3/4
High Heat	3/4	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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER is rated at ARI conditions and in accordance with DOE test procedures.

(c) Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated 80°F ambient, 80°F entering dry bulb and 67°F entering wet bulb at ARI rated cfm.

(d) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(e) Optional 2" MERV 7 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.



General Data

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

	3 Tons		4 Tons	
	WSC036E1	WSC036E3,4,W	WSC048E1	WSC048E3,4,W
Cooling Performance^(a)				
Gross Cooling Capacity	37,650	38,030	49,040	50,130
SEER ^(b)	13.0	13.0	13.0	13.0
Nominal cfm/ARI Rated cfm	1,200/1,200	1,200/1,200	1,600/1,600	1,600/1,600
ARI Net Cooling Capacity	37,000	37,000	48,000	48,800
System Power (kW)	3.49	3.45	4.40	4.40
Heating Performance^(c)				
High Temp. Btuh Rating	37,000	37,000	44,400	44,400
System Power kW/COP	3.31/3.30	3.21/3.40	3.91/3.30	3.86/3.40
Low Temp. Btuh Rating	21,200	20,700	25,000	24,900
System Power (kW)/COP	2.99/2.10	2.85/2.10	3.63/2.00	3.53/2.10
HSPF (Btu/Watts-hr)	8.00	8.00	7.80	7.80
Compressor				
Number/Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Sound				
Outdoor Sound Rating (dB) ^(d)	81	80	82	82
Outdoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	9.59	10.96	10.96	10.96
Rows/FPI	2/17	3/17	3/17	3/17
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Indoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	6.68	6.68	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.)	1 ¼ NPT	1 ¼ NPT	1 ¼ NPT	1 ¼ 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	3,323	2,823	3,276	3,279
Number Motors/hp	0.25	0.25	0.40	0.40
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.)	1/11x11	1/11x11	1/11x11	1/11x11
Drive Type/Number Speeds	Direct/5	Belt/Variable	Direct/5	Belt/Variable
Motor hp	0.75	1.0	1.0	1.0
Motor Frame Size (Standard/Oversized)	48	56	48	56

continued on next page

General Data

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

	3 Tons		4 Tons	
	WSC036E1	WSC036E3,4,W	WSC048E1	WSC048E3,4,W
Filters^(e)				
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x1	(2) 20x30x1	(2) 20x30x1	(2) 20x30x1
Refrigerant Charge ^(f)				
Pounds of R-410A	5.6	7.3	8.8	9.4

(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. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Heating 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. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz).

(d) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(e) Optional 2" MERV 7 and MERV 13 filters also available.

(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

General Data

Table 5. General data - 5 tons - standard efficiency

	5 Tons	
	WSC060E1	WSC060E3,4,W
Cooling Performance^(a)		
Gross Cooling Capacity	58,360	63,440
SEER ^(b)	13.0	13.0
Nominal cfm/ARI Rated cfm	2,000/2,000	2,000/2,000
ARI Net Cooling Capacity	57,000	62,000
System Power (kW)	5.06	5.13
Heating Performance^(c)		
High Temp. Btuh Rating	58,500	58,500
System Power kW/COP	4.86/3.50	4.94/3.50
Low Temp. Btuh Rating	34,500	34,400
System Power kW/COP	4.46/2.30	4.44/2.30
HSPF (Btu/Watts-hr)	8.00	8.00
Compressor		
Number/Type	1/Scroll	1/Scroll
Sound		
Outdoor Sound Rating (dB) ^(d)	87	87
Outdoor Coil		
Type	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	17.00	17.00
Rows/FPI	3/17	3/17
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Indoor Coil		
Type	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	9.27	9.27
Rows/FPI	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¼ NPT	1¼ NPT
Outdoor Fan		
Type	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	5,145	5,138
Motor hp	0.40	0.40
Motor rpm	1,075	1,075
Indoor Fan		
Type (Standard)	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1/11x11	1/11x11
Drive Type/Number Speeds	Direct/5	Belt/Variable
Motor hp	1.00	1.00
Motor Frame Size	48	56

continued on next page

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

	5 Tons	
	WSC060E1	WSC060E3,4,W
Filters^(e)		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 16x25x2
Refrigerant Charge^(f)		
Pounds of R-410A	10.0	10.6

(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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Heating 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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(d) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(e) Optional 2" MERV 7 and MERV 13 filters also available.

(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.



General Data

Table 6. General data - 3-4 tons - high efficiency

	3 Tons		4 Tons	
	T/YHC036E1	T/YHC036E3,4	T/YHC048E1	T/YHC048E3,4
Cooling Performance^(a)				
Gross Cooling Capacity	38,490	38,490	48,930	49,930
SEER ^(b)	15.2	15.0	15.0	15.0
Nominal cfm/ARI Rated cfm	1,200/1,200	1,200/1,200	1,600/1,600	1,600/1,600
ARI Net Cooling Capacity	38,000	38,000	48,000	49,000
System Power (kW)	2.93	2.99	3.83	3.67
Compressor				
Number/Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Sound				
Outdoor Sound Rating (dB) ^(c)	81	81	87	87
Outdoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size (in.) OD	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	10.96	10.96	17.00	17.00
Rows/FPI	3/17	3/17	3/17	3/17
Indoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71	9.27	9.27
Rows/FPI	3/16	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¼ NPT	1¼ NPT	1¼ NPT	1¼ NPT
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
cfm	3,064	3,064	3,986	3,982
Motor hp	0.2	0.2	0.4	0.4
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.)	1/11x11	1/11x11	1/11x11	1/11x11
Drive Type/Number Speeds	Direct/5	Direct/5	Direct/5	Direct/5
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)	0.75	1.0	1.0	1.0
Motor Frame Size (Standard/Oversized)	48	48	48	48
Indoor Fan				
Type (Optional)	—	FC Centrifugal	—	FC Centrifugal
Number Used/Diameter (in.)	—	1/11x11	—	1/11x11
Drive Type/Number Speeds	—	Belt/Variable	—	Belt/Variable
Number Motors	—	1	—	1
Motor hp (Standard/Oversized)	—	1.0	—	1.0
Motor Frame Size (Standard/Oversized)	—	56	—	56
Filters^(d)				
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x1	(2) 20x30x1	(4) 16x25x2	(4) 16x25x2
Refrigerant Charge ^(e)				
Pounds of R-410A	7.9	7.9	11.0	11.0

continued on next page

Table 6. General data - 3-4 tons - high efficiency (continued)

	3 Tons		4 Tons	
	T/YHC036E1	T/YHC036E3,4	T/YHC048E1	T/YHC048E3,4
Heating Performance^(f)				
(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	64,000	64,000
High Heat Input (Btu)	96,000	96,000	96,000	96,000
AFUE %^(g)				
Low Heat Input (Btu)	78	78	80	80
Mid Heat Input (Btu)	78	78	79	79
High Heat Input (Btu)	78	78	79	79
Steady State Efficiency %				
Low Heat Input (Btu)	80	80	81	81
Mid Heat Input (Btu)	81	80	80	80
High Heat Input (Btu)	80	80	80	81
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)	4.5/10.5	4.5/10.5	4.5/10.5	4.5/10.5
LP (minimum/maximum)	10.0/13.0	10.0/13.0	10.0/13.0	10.0/13.0
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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(d) Optional 2" MERV 7 and MERV 13 filters also available.

(e) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(f) 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.

(g) AFUE is rated in accordance with DOE test procedures.

General Data

Table 7. General data - 5 tons - high efficiency

	5 Tons	
	T/YH060E1	T/YHC060E3,4
Cooling Performance^(a)		
Gross Cooling Capacity	62,490	63,490
SEER ^(b)	14.8	15.0
Nominal cfm/ARI Rated cfm	2,000/2,000	2,000/2,000
ARI Net Cooling Capacity	61,000	62,000
System Power (kW)	4.75	4.83
Compressor		
Number/Type	1/Scroll	1/Scroll
Sound		
Outdoor Sound Rating (dB) ^(c)	87	87
Outdoor Coil		
Type	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	17.00	17.00
Rows/FPI	3/17	3/17
Indoor Coil		
Type	Lanced	Lanced
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	9.89	9.89
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	3,953	3,953
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.)	1/11x11	1/11x11
Drive Type/Number Speeds	Direct/5	Direct/5
Motor hp	1.0	1.0
Motor Frame Size	48	48
Indoor Fan		
Type (Optional)	—	FC Centrifugal
Number Used/Diameter (in.)	—	1/11x11
Drive Type/Number Speeds	—	Belt/Variable
Motor hp	—	1.0
Motor Frame Size	—	56
Filters^(d)		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 16x25x2
Refrigerant Charge^(e)		
Pounds of R-410A	12.5	12.5

continued on next page

Table 7. General data - 5 tons - high efficiency (continued)

	5 Tons	
	T/YH060E1	T/YHC060E3,4
Heating Performance^(f)		
(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)	49,000	48,000
Mid Heat Input (Btu)	64,000	64,000
High Heat Input (Btu)	104,000	104,000
AFUE%^(g)		
Low Heat Input (Btu)	80	80
Mid Heat Input (Btu)	79	79
High Heat Input (Btu)	80	80
Steady State Efficiency %		
Low Heat Input (Btu)	81	81
Mid Heat Input (Btu)	80	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)	4.5/10.5	4.5/10.5
LP (minimum/maximum)	10.0/13.0	10.0/13.0
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. ARI 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 ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to [Table 109, p. 134](#).

(d) Optional 2" MERV 7 and MERV 13 filters also available.

(e) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(f) 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.

(g) AFUE is rated in accordance with DOE test procedures.

Performance Data

Table 8. Gross cooling capacities 3 tons standard efficiency - single phase T/YSC036E1

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
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																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73													
		MBh	SHC	MBh	SHC	MBh	SHC												
1080	75	25.3	23.7	28.3	15.8	31.6	8.3												
1080	80	27.1	27.1	28.8	21.8	32.3	14.6												
1080	85	29.4	29.4	29.6	28.6	32.7	20.4												
1080	90	31.6	31.6	31.6	31.6	33.1	26.3												
1200	75	26.0	25.5	28.8	16.7	32.1	8.5												
1200	80	28.2	28.2	29.4	23.5	32.8	15.6												
1200	85	30.5	30.5	30.5	30.4	33.2	21.8												
1200	90	32.8	32.8	32.8	32.8	33.8	28.5												
1320	75	26.7	26.7	29.3	17.8	32.6	8.7												
1320	80	29.1	29.1	29.9	25.4	33.2	16.4												
1320	85	31.4	31.4	31.4	31.4	33.8	23.1												
1320	90	33.8	33.8	33.8	33.8	34.3	31.1												
1440	75	27.4	27.4	29.7	18.6	32.9	8.9												
1440	80	29.9	29.9	30.4	27.3	33.6	16.7												
1440	85	32.3	32.3	32.3	32.3	34.2	24.7												
1440	90	34.7	34.7	34.7	34.7	35.0	33.5												

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 9. Gross cooling capacities 3 tons standard efficiency - three phase T/YSC036E,3,4,W

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
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																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
1080	75	27.0	24.8	30.3	16.9	33.7	8.6																
1080	80	28.7	28.7	30.7	23.2	34.2	15.4																
1080	85	30.9	30.9	31.2	29.8	34.6	21.6																
1080	90	33.1	33.1	33.1	33.1	34.9	27.5																
1200	75	27.7	27.0	30.8	18.0	34.3	8.7																
1200	80	29.8	29.8	31.3	24.8	34.8	15.9																
1200	85	32.1	32.1	32.1	32.1	35.2	23.0																
1200	90	34.4	34.4	34.3	34.3	35.6	29.8																
1320	75	28.4	28.4	31.3	18.7	34.7	8.6																
1320	80	30.7	30.7	31.8	26.5	35.3	17.4																
1320	85	33.1	33.1	33.1	33.1	35.7	24.4																
1320	90	35.5	35.5	35.5	35.5	36.1	32.0																
1440	75	29.1	29.1	31.7	19.8	35.1	9.2																
1440	80	31.6	31.6	32.3	28.4	35.7	18.3																
1440	85	34.0	34.0	34.0	34.0	36.2	25.9																
1440	90	36.4	36.4	36.4	36.4	36.7	34.6																

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

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb						Entering Wet Bulb						Entering Wet Bulb					
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
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																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb						Entering Wet Bulb						Entering Wet Bulb					
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1440	75	35.3	32.6	40.0	22.3	44.9	11.9												
1440	80	37.4	37.4	40.3	30.6	45.5	20.3												
1440	85	40.4	40.4	40.9	39.1	45.8	28.5												
1440	90	43.3	43.3	43.3	43.3	46.2	36.7												
1600	75	36.1	35.2	40.7	23.7	45.6	12.5												
1600	80	38.9	38.9	41.2	33.0	46.3	21.4												
1600	85	41.9	41.9	42.0	42.0	46.6	30.6												
1600	90	45.0	45.0	45.0	45.0	47.0	39.8												
1760	75	37.0	37.0	41.3	25.2	46.3	12.6												
1760	80	40.2	40.2	41.8	35.3	46.8	22.6												
1760	85	43.4	43.4	43.3	43.3	47.2	32.6												
1760	90	46.5	46.5	46.4	46.4	47.7	42.8												
1920	75	38.1	38.1	41.8	26.5	46.8	12.4												
1920	80	41.3	41.3	42.4	37.7	47.4	23.7												
1920	85	44.6	44.6	44.6	44.6	47.9	34.7												
1920	90	47.8	47.8	47.8	47.8	48.3	45.8												

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 11. Gross cooling capacities 4 tons standard efficiency - three phase T/YSC048E,3,4,W

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
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																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73													
		MBh	SHC	MBh	SHC	MBh	SHC												
1440	75	35.3	32.9	39.9	22.7	44.8	11.5												
1440	80	37.7	37.7	40.5	31.1	45.5	20.6												
1440	85	40.8	40.8	41.0	39.5	46.0	28.8												
1440	90	43.8	43.8	43.7	43.7	46.4	37.2												
1600	75	36.2	35.7	40.7	23.7	45.5	11.5												
1600	80	39.2	39.2	41.3	33.4	46.3	21.7												
1600	85	42.4	42.4	42.3	42.3	46.8	30.9												
1600	90	45.5	45.5	45.5	45.5	47.4	40.5												
1760	75	37.2	37.2	41.3	25.7	46.2	12.5												
1760	80	40.5	40.5	42.0	35.8	46.9	23.0												
1760	85	43.8	43.8	43.8	43.8	47.5	32.9												
1760	90	47.0	47.0	46.9	46.9	48.1	43.4												
1920	75	38.3	38.3	41.8	26.9	46.8	13.0												
1920	80	41.7	41.7	42.6	38.1	47.5	24.1												
1920	85	45.0	45.0	44.9	44.9	48.0	35.0												
1920	90	48.4	48.4	48.4	48.4	48.8	46.4												

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

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
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																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1800	75	44.2	42.1	49.4	28.4	55.1	15.2												
1800	80	46.9	46.9	49.8	39.1	55.5	25.5												
1800	85	50.2	50.2	50.5	49.9	55.8	35.9												
1800	90	53.5	53.5	53.5	53.5	56.2	46.5												
2000	75	45.2	45.0	50.2	30.2	55.9	15.2												
2000	80	48.5	48.5	50.7	42.0	56.3	26.9												
2000	85	51.9	51.9	51.9	51.9	56.7	38.5												
2000	90	55.4	55.4	55.4	55.4	57.2	50.2												
2200	75	46.3	46.3	50.9	31.9	56.6	15.6												
2200	80	49.8	49.8	51.4	44.9	57.0	28.2												
2200	85	53.4	53.4	53.4	53.4	57.4	41.0												
2200	90	57.0	57.0	57.0	57.0	58.0	54.0												
2400	75	47.5	47.5	51.5	33.6	57.2	15.7												
2400	80	51.0	51.0	52.1	47.9	57.6	29.6												
2400	85	54.7	54.7	54.7	54.7	58.0	43.6												
2400	90	58.4	58.4	58.4	58.4	58.8	57.7												

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 - three phase T/YSC060E3,4,W

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
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	68.0	67.4	68.4	66.0	74.8	49.8	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																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73													
		MBh	SHC	MBh	SHC	MBh	SHC												
1800	75	45.8	43.3	51.2	30.4	57.1	18.0												
1800	80	48.6	48.6	51.7	40.7	57.4	27.8												
1800	85	52.0	52.0	52.2	51.2	57.8	37.7												
1800	90	55.4	55.4	55.3	55.3	58.2	48.2												
2000	75	46.9	46.7	52.1	32.2	58.0	16.9												
2000	80	50.3	50.3	52.6	43.7	58.3	29.6												
2000	85	53.8	53.8	53.8	53.8	58.7	40.5												
2000	90	57.3	57.3	57.3	57.3	59.1	52.0												
2200	75	48.2	48.2	52.9	34.0	58.7	17.6												
2200	80	51.8	51.8	53.4	46.7	59.0	30.4												
2200	85	55.4	55.4	55.4	55.4	59.4	43.1												
2200	90	59.0	59.0	59.0	59.0	59.9	55.7												
2400	75	49.3	49.3	53.5	35.7	59.3	17.7												
2400	80	53.1	53.1	54.0	49.5	59.7	32.2												
2400	85	56.8	56.8	56.8	56.8	60.1	45.8												
2400	90	60.5	60.5	60.5	60.5	60.7	59.5												

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 14. Gross cooling capacities 6 tons standard efficiency - three phase T/YSC072E3,4,W

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb						Entering Wet Bulb						Entering Wet Bulb					
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1920	75	68.5	52.9	75.2	37.7	82.4	22.5	64.4	50.7	70.8	35.5	77.6	20.2	60.0	48.2	66.1	33.2	72.6	17.9
1920	80	69.8	64.6	76.2	49.2	83.4	33.8	65.8	62.6	71.8	46.9	78.8	31.4	61.5	59.9	67.1	44.3	73.7	29.2
1920	85	72.2	72.2	77.2	60.4	84.4	44.5	68.5	68.5	72.8	58.1	79.7	42.5	64.7	64.7	68.1	55.9	74.7	40.4
1920	90	76.4	76.4	78.5	72.0	85.4	56.0	72.7	72.7	74.2	70.1	80.6	53.8	68.8	68.8	69.5	67.6	75.6	51.6
2160	75	70.3	56.6	77.0	39.5	84.2	22.3	66.1	54.3	72.4	37.4	79.2	20.1	61.7	52.1	67.6	35.1	74.0	18.0
2160	80	71.9	69.7	78.1	51.9	85.3	35.1	67.7	66.9	73.5	49.8	80.4	32.4	63.3	63.3	68.7	47.7	75.3	30.5
2160	85	75.3	75.3	79.2	65.1	90.8	55.7	71.5	71.5	74.7	62.9	85.5	54.0	67.4	67.4	69.9	60.6	80.0	51.8
2160	90	79.8	79.8	80.9	78.2	87.4	59.9	75.8	75.8	76.4	75.5	82.5	57.7	71.7	71.7	71.8	71.7	77.3	55.9
2400	75	72.0	60.4	78.5	41.3	85.6	22.5	67.6	58.1	73.8	39.2	80.6	20.4	63.0	55.7	68.9	36.0	75.2	18.2
2400	80	73.8	73.5	79.6	55.2	87.0	36.1	69.6	69.6	75.0	53.2	81.9	33.6	65.4	65.4	70.1	51.0	76.6	32.2
2400	85	78.0	78.0	81.0	69.7	88.1	50.4	74.0	74.0	76.4	67.6	83.1	48.6	69.8	69.8	71.5	65.4	77.8	45.9
2400	90	82.6	82.6	82.9	82.6	89.2	64.1	78.6	78.6	78.6	78.6	84.2	62.0	74.3	74.3	74.2	74.2	78.8	59.7
2640	75	73.4	64.0	79.8	42.1	86.9	22.5	68.9	61.7	75.0	40.0	81.6	19.9	64.3	59.4	70.0	37.6	76.1	18.0
2640	80	75.6	75.6	81.1	58.6	88.3	37.8	71.6	71.6	76.3	56.4	83.3	35.9	67.3	67.3	71.2	54.2	77.7	32.9
2640	85	80.4	80.4	82.7	74.5	89.6	52.9	76.3	76.3	77.9	72.3	84.4	50.4	71.9	71.9	73.0	70.1	79.0	48.9
2640	90	85.2	85.2	85.2	85.2	90.7	68.2	81.0	81.0	80.9	80.9	85.6	66.1	76.5	76.5	76.4	76.4	80.1	64.0
2880	75	74.6	67.7	81.0	44.7	88.0	22.9	70.1	65.4	76.1	42.1	82.5	20.0	65.4	62.8	70.9	40.0	76.8	18.0
2880	80	77.6	77.6	82.3	61.9	89.5	39.3	73.4	73.4	77.4	59.7	84.2	37.7	69.0	69.0	72.3	57.5	78.7	34.2
2880	85	82.5	82.5	84.1	79.1	90.8	55.7	78.2	78.2	79.3	76.7	85.5	54.0	73.7	73.7	74.2	73.3	80.0	51.8
2880	90	87.5	87.5	87.4	87.4	92.1	72.4	83.1	83.1	83.1	83.1	86.8	70.3	78.4	78.4	78.4	78.4	81.3	68.3
		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb						Entering Wet Bulb						Entering Wet Bulb					
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1920	75	55.4	45.9	61.1	31.2	67.1	15.6												
1920	80	56.8	56.6	62.1	42.2	68.3	26.9												
1920	85	60.5	60.5	63.1	53.6	69.3	38.3												
1920	90	64.5	64.5	64.6	64.4	70.2	49.3												
2160	75	56.8	49.6	62.4	32.3	68.3	15.4												
2160	80	59.0	59.0	63.5	45.4	69.7	28.3												
2160	85	63.0	63.0	64.8	58.4	74.0	48.9												
2160	90	67.2	67.2	67.1	67.1	71.8	53.5												
2400	75	58.1	53.4	63.6	34.4	69.2	14.9												
2400	80	61.0	61.0	64.7	48.6	70.9	29.4												
2400	85	65.3	65.3	66.4	63.3	72.0	43.8												
2400	90	69.5	69.5	69.5	69.5	73.1	57.7												
2640	75	59.3	56.9	64.6	35.8	70.0	15.1												
2640	80	62.7	62.7	65.8	51.9	71.8	30.8												
2640	85	67.1	67.1	67.6	66.8	73.1	46.3												
2640	90	71.6	71.6	71.5	71.5	74.3	61.9	Notes:											
2880	75	60.3	59.5	65.4	37.5	70.6	14.1	1. All capacities shown are gross and have not considered indoor fan heat. To obtain NET											
2880	80	64.3	64.3	66.8	55.2	72.8	32.7	cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate											
2880	85	68.8	68.8	68.9	68.8	74.0	48.9	airflow table notes.											
2880	90	73.3	73.3	73.3	73.3	75.4	66.4	2. MBh = Total Gross Capacity											
								3. SHC = Sensible Heat Capacity											

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 15. Gross cooling capacities 7½ tons standard efficiency - three phase T/YSC092E3,4,W

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
2400	75	86.8	68.4	95.5	50.1	104.8	31.2	81.3	65.4	89.5	47.1	98.4	28.5	75.5	62.3	83.3	44.2	91.7	25.8				
2400	80	88.1	83.1	96.2	64.0	105.6	45.3	82.6	80.0	90.2	60.9	99.2	42.7	77.1	76.1	84.0	57.9	92.5	39.7				
2400	85	91.5	91.5	96.9	77.7	106.1	58.8	86.6	86.6	91.0	74.8	99.7	56.1	81.5	81.5	84.8	71.8	93.0	53.1				
2400	90	96.4	96.4	98.0	92.3	106.7	72.5	91.4	91.4	92.3	89.3	100.3	69.6	86.2	86.2	86.4	85.4	93.5	66.7				
2700	75	89.0	73.2	97.6	52.6	107.0	31.5	83.4	70.2	91.5	49.6	100.4	28.9	77.4	67.1	85.1	46.4	93.5	26.2				
2700	80	90.6	88.9	98.4	68.0	107.8	47.4	85.3	84.9	92.3	65.0	101.2	44.3	79.8	79.8	85.8	62.0	94.2	41.8				
2700	85	95.3	95.3	99.3	83.6	113.3	73.0	90.2	90.2	93.2	80.8	106.2	70.2	84.8	84.8	86.8	78.1	98.7	67.3				
2700	90	100.5	100.5	100.9	99.1	109.0	77.6	95.2	95.2	95.4	95.1	102.4	74.7	89.6	89.6	89.6	89.6	95.4	71.9				
3000	75	90.9	78.0	99.5	54.7	108.9	31.7	85.1	75.1	93.2	52.1	102.1	29.0	79.1	72.2	86.6	48.8	95.1	26.5				
3000	80	93.3	93.2	100.2	72.0	109.6	49.0	88.0	88.0	94.0	69.1	102.9	46.5	82.5	82.5	87.4	66.1	95.8	43.4				
3000	85	98.6	98.6	101.3	89.8	110.3	67.0	93.2	93.2	95.1	87.1	103.4	62.8	87.6	87.6	88.7	84.2	96.3	60.1				
3000	90	104.0	104.0	104.0	103.9	110.9	82.8	98.5	98.5	98.4	98.4	104.1	80.0	92.6	92.6	92.6	92.6	97.0	77.1				
3300	75	92.6	82.8	101.0	57.7	110.4	32.2	86.8	80.1	94.6	54.3	103.5	29.5	80.6	77.0	87.8	51.3	96.3	26.9				
3300	80	95.8	95.8	101.9	76.2	111.3	51.0	90.5	90.5	95.4	73.1	104.3	48.1	84.8	84.8	88.7	70.3	97.0	44.8				
3300	85	101.4	101.4	103.2	96.1	111.9	69.5	95.9	95.9	97.0	93.1	104.9	66.6	90.0	90.0	90.4	89.0	97.6	63.7				
3300	90	107.0	107.0	106.9	106.9	112.6	88.2	101.3	101.3	101.2	101.2	105.6	85.4	95.2	95.2	95.1	95.1	98.4	82.6				
3600	75	94.2	87.9	102.3	59.7	111.8	32.6	88.2	84.6	95.8	56.8	104.8	30.1	81.9	80.5	88.9	53.8	97.3	27.4				
3600	80	98.2	98.2	103.3	80.4	112.7	53.0	92.7	92.7	96.7	77.5	105.5	50.0	86.8	86.8	89.9	74.6	98.1	47.1				
3600	85	104.0	104.0	104.9	101.6	113.3	73.0	98.2	98.2	98.6	97.4	106.2	70.2	92.2	92.2	92.2	92.1	98.7	67.3				
3600	90	109.7	109.7	109.6	109.6	114.1	93.6	103.8	103.8	103.7	103.7	107.0	91.0	97.5	97.5	97.4	97.4	99.7	88.6				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
2400	75	69.4	59.1	76.8	41.2	84.7	23.0																
2400	80	71.5	71.4	77.4	54.8	85.4	36.8																
2400	85	76.0	76.0	78.2	68.9	85.9	50.2																
2400	90	80.5	80.5	80.4	80.4	86.4	63.7																
2700	75	71.2	64.3	78.4	43.4	86.3	23.2																
2700	80	74.2	74.2	79.0	58.9	87.0	38.5																
2700	85	79.0	79.0	80.2	75.3	90.9	64.4																
2700	90	83.6	83.6	83.6	83.6	88.0	68.8																
3000	75	72.8	69.1	79.7	45.9	87.6	23.4																
3000	80	76.7	76.7	80.5	63.1	88.3	41.0																
3000	85	81.5	81.5	81.9	80.3	88.8	57.2																
3000	90	86.4	86.4	86.3	86.3	89.4	74.3																
3300	75	74.1	72.8	80.7	48.2	88.6	23.5																
3300	80	78.7	78.7	81.6	67.3	89.4	42.3																
3300	85	83.7	83.7	83.8	83.8	89.9	60.7																
3300	90	88.7	88.7	88.6	88.6	90.7	80.2																
3600	75	75.5	75.4	81.7	50.6	89.5	23.6																
3600	80	80.6	80.6	82.7	71.8	90.3	44.6																
3600	85	85.7	85.7	85.6	85.6	90.9	64.4																
3600	90	90.7	90.7	90.7	90.7	92.0	86.1																
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																							



Performance Data

Table 16. Gross cooling capacities 8½ tons standard efficiency - three phase T/YSC102E3,4,W

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
2720	75	93.9	74.9	103.6	55.0	113.9	34.3	88.1	71.6	97.4	52.1	107.2	33.2	82.1	68.2	91.0	49.0	100.4	28.2				
2720	80	94.8	90.5	104.2	70.3	114.7	50.3	89.2	87.2	98.0	67.2	108.1	47.3	83.6	83.0	91.6	63.9	101.1	43.8				
2720	85	99.1	99.1	104.8	85.6	115.2	65.1	94.0	94.0	98.7	82.4	108.6	62.1	88.6	88.6	92.3	79.1	101.8	59.0				
2720	90	104.5	104.5	105.7	100.9	115.7	80.2	99.3	99.3	99.8	97.7	109.1	77.1	93.8	93.8	93.9	93.4	102.2	74.0				
3060	75	96.2	80.3	105.9	58.0	116.2	35.2	90.3	77.1	99.6	54.8	109.3	32.1	84.1	73.6	92.9	51.8	102.2	28.5				
3060	80	97.7	97.1	106.6	75.0	117.1	52.6	92.5	92.5	100.2	71.9	110.3	49.5	86.8	86.8	93.6	68.6	103.0	46.5				
3060	85	103.4	103.4	107.3	92.2	122.8	81.7	97.8	97.8	101.0	89.0	115.6	79.3	92.5	92.5	94.4	85.7	108.0	75.6				
3060	90	109.1	109.1	109.1	108.6	118.1	86.3	103.5	103.5	103.4	103.4	111.4	83.2	97.8	97.8	97.7	97.7	104.3	80.1				
3400	75	98.2	85.5	107.8	61.0	118.0	35.5	92.1	82.3	101.4	57.8	110.9	30.3	85.8	79.0	94.5	55.6	103.7	29.0				
3400	80	101.1	101.1	108.6	79.9	119.1	55.9	95.6	95.6	102.1	76.7	112.1	52.4	89.9	89.9	95.3	73.3	104.7	48.6				
3400	85	107.1	107.1	109.4	98.7	119.6	73.3	101.4	101.4	103.1	95.7	112.7	70.9	95.5	95.5	96.4	92.6	105.4	67.5				
3400	90	112.9	112.9	112.8	112.8	120.2	92.2	107.3	107.3	107.2	107.2	113.3	89.3	101.2	101.2	101.2	101.2	106.0	86.1				
3740	75	99.9	90.9	109.5	64.0	119.6	35.5	93.8	87.7	102.8	60.6	112.3	31.2	87.4	84.3	95.8	57.2	104.8	27.7				
3740	80	104.0	104.0	110.3	84.6	120.5	57.0	98.3	98.3	103.6	81.3	113.5	54.3	92.5	92.5	96.7	77.9	106.2	50.5				
3740	85	110.1	110.1	111.4	105.7	121.3	77.8	104.3	104.3	104.9	102.2	114.2	74.6	98.3	98.3	98.5	97.9	106.8	71.7				
3740	90	116.3	116.3	116.3	116.3	122.0	98.4	110.4	110.4	110.3	110.3	114.9	95.2	103.9	103.9	104.1	104.1	107.5	92.1				
4080	75	101.4	96.3	110.8	65.2	120.8	34.1	95.3	92.8	104.0	63.2	113.3	33.1	88.9	88.3	96.9	60.2	105.8	30.2				
4080	80	106.5	106.5	111.8	89.3	122.1	59.4	100.7	100.7	105.0	86.0	114.8	56.3	94.7	94.7	98.0	82.6	107.2	53.2				
4080	85	112.9	112.9	113.3	111.7	122.8	81.7	107.0	107.0	107.2	107.1	115.6	79.3	100.8	100.8	100.7	100.7	108.0	75.6				
4080	90	119.3	119.3	119.4	119.4	123.6	104.3	113.2	113.2	113.1	113.1	116.3	101.2	106.8	106.8	106.7	106.7	108.9	98.3				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
2720	75	75.8	64.8	84.2	45.4	93.0	25.4																
2720	80	77.8	77.8	84.9	60.5	93.9	40.9																
2720	85	82.9	82.9	85.5	75.6	94.4	55.7																
2720	90	88.0	88.0	87.9	87.9	94.9	70.9																
3060	75	77.6	70.2	85.9	48.2	94.7	24.9																
3060	80	81.1	81.1	86.7	65.3	95.6	43.0																
3060	85	86.4	86.4	87.6	82.6	100.1	72.6																
3060	90	91.7	91.7	91.4	91.4	96.8	76.9																
3400	75	78.7	75.3	87.4	50.8	95.9	24.2																
3400	80	83.8	83.8	88.2	70.1	97.1	45.4																
3400	85	89.4	89.4	89.6	88.4	97.7	64.1																
3400	90	94.7	94.7	94.8	94.8	98.4	82.8																
3740	75	80.9	79.9	88.5	53.8	96.9	24.9																
3740	80	86.3	86.3	89.5	74.7	98.3	47.3																
3740	85	92.0	92.0	91.9	91.9	99.0	68.3																
3740	90	97.6	97.6	97.5	97.5	99.8	88.9																
4080	75	82.5	82.5	89.6	56.3	97.6	26.0																
4080	80	88.4	88.4	90.7	79.5	99.3	49.6																
4080	85	94.2	94.2	94.0	94.0	100.1	72.6																
4080	90	100.0	100.0	99.9	99.9	101.2	95.4																
								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 17. Gross cooling capacities 10 tons standard efficiency - three phase T/YSC120E3,4,W

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
3200	75	109.5	90.4	120.7	66.7	132.6	42.6	102.9	87.0	113.5	63.3	124.9	39.5	95.8	83.3	105.9	59.9	116.7	36.2				
3200	80	111.2	107.1	121.0	84.7	133.0	60.9	105.1	102.3	113.9	81.7	125.2	57.6	98.5	97.1	106.3	77.8	117.0	54.0				
3200	85	115.9	115.9	121.5	103.0	133.2	78.9	110.1	110.1	114.3	99.6	125.5	75.5	103.8	103.8	106.8	96.2	117.3	72.0				
3200	90	122.1	122.1	123.3	118.8	133.4	96.4	116.0	116.0	116.8	113.9	125.7	93.3	109.5	109.5	109.8	108.5	117.5	89.9				
3600	75	111.9	96.8	123.1	70.8	135.1	43.3	105.1	93.4	115.7	66.7	127.0	39.9	97.9	89.7	107.9	63.3	118.7	36.8				
3600	80	114.8	112.7	123.5	90.4	135.3	63.2	108.4	107.6	116.1	86.9	127.4	59.8	101.7	101.7	108.3	83.5	118.9	56.8				
3600	85	120.5	120.5	124.1	111.0	140.9	98.6	114.3	114.3	116.8	107.7	132.4	95.2	107.7	107.7	109.3	103.4	123.4	91.9				
3600	90	126.9	126.9	127.3	125.2	135.9	103.8	120.4	120.4	120.6	120.1	127.9	100.4	113.7	113.7	113.5	113.5	119.5	97.1				
4000	75	114.1	103.3	125.1	73.7	137.0	43.8	107.1	99.8	117.5	70.1	128.9	40.8	100.0	95.0	109.5	66.4	120.3	37.3				
4000	80	118.0	117.8	125.5	96.1	137.4	65.9	111.6	111.6	118.0	92.7	129.2	63.0	104.9	104.9	110.0	89.2	120.6	59.5				
4000	85	124.4	124.4	126.3	118.8	137.8	88.8	118.0	118.0	119.4	113.7	129.6	85.4	111.1	111.1	111.9	108.2	120.9	82.1				
4000	90	131.0	131.0	130.8	130.8	138.0	111.0	124.3	124.3	124.2	124.2	129.8	107.6	117.2	117.2	117.2	117.2	121.2	104.4				
4400	75	116.1	109.4	126.8	76.9	138.7	44.6	109.2	104.2	119.0	73.9	130.4	41.2	102.0	98.7	110.8	69.7	121.5	37.5				
4400	80	121.0	121.0	127.3	101.7	139.1	68.9	114.6	114.6	119.6	98.3	130.8	65.6	107.6	107.6	111.4	94.7	121.9	62.2				
4400	85	127.8	127.8	129.1	123.7	139.4	94.6	121.1	121.1	121.9	118.5	131.1	90.2	113.9	113.9	114.3	112.7	122.2	86.9				
4400	90	134.5	134.5	134.4	134.4	139.5	118.2	127.7	127.7	127.5	127.5	131.4	115.0	120.3	120.3	120.2	120.2	122.7	111.8				
4800	75	118.0	113.1	128.2	80.3	140.2	45.2	111.5	108.0	120.3	77.0	131.7	42.2	103.9	102.3	112.0	73.1	122.6	38.6				
4800	80	123.9	123.9	128.8	107.4	140.5	71.7	117.1	117.1	121.0	104.0	132.0	68.4	110.0	110.0	112.7	100.5	123.1	65.0				
4800	85	130.8	130.8	131.6	128.4	140.9	98.6	123.9	123.9	124.2	122.8	132.4	95.2	116.5	116.5	116.5	116.5	123.4	91.9				
4800	90	137.6	137.6	137.5	137.5	141.2	128.3	130.6	130.6	130.4	130.4	133.1	122.5	123.1	123.1	122.8	122.8	124.4	117.4				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
3200	75	88.3	79.6	97.8	55.8	108.0	32.7																
3200	80	91.6	91.5	98.2	74.2	108.2	50.5																
3200	85	97.1	97.1	98.8	92.6	108.5	68.4																
3200	90	102.6	102.6	102.4	102.4	108.7	86.3																
3600	75	90.3	85.5	99.5	59.4	109.7	33.1																
3600	80	94.8	94.8	99.9	79.8	110.0	53.3																
3600	85	100.6	100.6	101.5	97.7	113.9	88.1																
3600	90	106.3	106.3	106.2	106.2	110.5	93.6																
4000	75	92.6	89.3	101.0	62.7	111.0	33.8																
4000	80	97.7	97.7	101.5	85.4	111.4	56.1																
4000	85	103.7	103.7	104.0	102.3	111.7	78.4																
4000	90	109.5	109.5	109.4	109.4	112.0	101.1																
4400	75	94.5	93.0	102.2	66.1	112.2	33.8																
4400	80	100.2	100.2	102.8	91.2	112.6	58.8																
4400	85	106.3	106.3	106.3	106.2	112.9	83.2																
4400	90	112.4	112.4	112.2	112.2	113.6	107.2																
4800	75	96.3	96.0	103.2	69.4	113.1	34.7	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															
4800	80	102.4	102.4	104.0	96.9	113.6	61.5																
4800	85	108.6	108.6	108.5	108.5	113.9	88.1																
4800	90	114.7	114.7	114.6	114.6	115.5	111.1																



Performance Data

Table 18. Gross cooling capacities 3 tons standard efficiency - single phase WSC036E1 - heat pump

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb						Entering Wet Bulb						Entering Wet Bulb					
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1080	75	35.7	28.7	39.4	20.8	43.3	12.2	32.9	27.1	36.4	19.2	40.1	10.9	30.0	25.5	33.2	17.7	36.8	9.3
1080	80	36.7	35.8	39.9	27.0	43.9	19.0	34.0	34.0	36.9	25.5	40.7	17.6	31.4	31.4	33.8	23.9	37.3	16.1
1080	85	38.9	38.9	40.5	33.1	44.3	25.1	36.3	36.3	37.5	31.6	41.1	23.6	33.7	33.7	34.4	30.1	37.7	22.1
1080	90	41.3	41.3	41.6	40.4	44.9	31.3	38.7	38.7	38.7	38.6	41.7	29.7	36.0	36.0	36.0	36.0	38.3	28.1
1200	75	36.5	30.6	40.2	21.9	44.1	12.5	33.7	29.0	37.0	20.2	40.8	11.0	30.8	27.7	33.8	18.5	37.4	9.5
1200	80	37.8	37.8	40.8	28.7	44.6	19.9	35.3	35.3	37.6	27.1	41.4	18.5	32.6	32.6	34.5	25.4	37.9	17.0
1200	85	40.4	40.4	41.5	35.5	45.1	26.5	37.7	37.7	38.4	34.2	41.9	25.0	35.0	35.0	35.3	33.0	38.4	23.4
1200	90	42.9	42.9	42.9	42.9	45.8	33.1	40.2	40.2	40.1	40.1	42.4	31.5	37.3	37.3	37.3	37.3	39.0	29.9
1320	75	37.3	32.5	40.8	22.7	44.7	12.6	34.4	31.2	37.6	21.0	41.4	11.0	31.5	29.9	34.4	19.5	37.9	9.8
1320	80	39.1	39.1	41.4	30.2	45.3	20.7	36.4	36.4	38.2	28.5	41.9	19.3	33.6	33.6	35.0	27.0	38.4	17.7
1320	85	41.7	41.7	42.3	38.2	45.9	27.9	38.9	38.9	39.3	37.0	42.5	26.3	36.0	36.0	36.2	35.7	39.0	24.8
1320	90	44.3	44.3	44.3	44.3	46.5	35.0	41.5	41.5	41.4	41.4	43.2	33.5	38.5	38.5	38.5	38.5	39.7	32.1
1440	75	38.0	34.7	41.3	23.6	45.2	12.8	35.1	33.4	38.1	22.0	41.9	11.4	32.1	31.8	34.8	20.6	38.3	9.8
1440	80	40.1	40.1	42.0	31.7	45.9	21.6	37.4	37.4	38.9	30.2	42.4	20.0	34.5	34.5	35.5	28.7	38.8	18.1
1440	85	42.8	42.8	43.2	41.0	46.5	29.1	40.0	40.0	40.0	39.6	43.1	27.8	37.0	37.0	37.0	37.0	39.5	26.2
1440	90	45.5	45.5	45.5	45.5	47.2	37.1	42.6	42.6	42.6	42.6	43.8	35.7	39.5	39.5	39.5	39.5	40.3	34.6
		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb						Entering Wet Bulb						Entering Wet Bulb					
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1080	75	27.0	24.1	29.9	16.1	33.3	7.8												
1080	80	28.6	28.6	30.5	22.3	33.8	14.6												
1080	85	30.8	30.8	31.3	28.9	34.2	20.5												
1080	90	33.1	33.1	33.1	33.1	34.7	26.3												
1200	75	27.7	26.3	30.5	16.9	33.8	8.0												
1200	80	29.7	29.7	31.1	23.7	34.3	15.3												
1200	85	32.0	32.0	32.1	31.7	34.8	22.1												
1200	90	34.3	34.3	34.3	34.3	35.4	28.5												
1320	75	28.4	28.3	30.9	18.0	34.2	8.1												
1320	80	30.7	30.7	31.6	25.4	34.7	15.8												
1320	85	33.0	33.0	33.0	33.0	35.3	23.3												
1320	90	35.3	35.3	35.3	35.3	36.1	30.9												
1440	75	29.0	29.0	31.3	18.9	34.6	8.1												
1440	80	31.4	31.4	32.1	27.3	35.1	16.5												
1440	85	33.9	33.9	33.8	33.8	35.7	24.5												
1440	90	36.3	36.3	36.2	36.2	36.7	33.6												

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 3 tons standard efficiency - three phase WSC036E3,4,W - heat pump

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
1080	75	36.1	28.9	39.8	21.0	43.6	12.3	33.3	27.4	36.8	19.2	40.4	10.7	30.4	25.8	33.6	17.9	37.1	9.1				
1080	80	36.9	35.9	40.2	27.0	44.2	19.2	34.2	34.1	37.3	25.5	41.0	17.6	31.6	31.6	34.1	23.9	37.6	15.8				
1080	85	38.9	38.9	40.7	33.3	44.6	25.0	36.4	36.4	37.8	31.8	41.4	23.8	33.8	33.8	34.6	30.3	38.0	22.2				
1080	90	41.3	41.3	41.6	40.5	45.1	31.1	38.7	38.7	38.8	38.6	41.9	29.7	36.0	36.0	36.0	36.0	38.4	28.0				
1200	75	36.9	30.9	40.6	21.8	44.4	12.4	34.1	29.4	37.5	20.3	41.2	10.8	31.1	28.0	34.3	18.8	37.7	9.3				
1200	80	38.0	37.9	41.1	28.7	45.0	19.7	35.4	35.4	38.0	27.3	41.7	18.3	32.7	32.7	34.7	25.6	38.2	16.8				
1200	85	40.4	40.4	41.7	35.7	45.5	26.8	37.8	37.8	38.7	34.5	42.1	24.9	35.0	35.0	35.5	33.2	38.6	23.4				
1200	90	42.9	42.9	42.9	42.9	46.0	33.3	40.3	40.3	40.2	40.2	42.6	31.7	37.3	37.3	37.3	37.3	39.1	30.1				
1320	75	37.6	32.9	41.3	22.9	45.1	12.5	34.8	31.6	38.1	21.3	41.8	11.0	31.7	30.1	34.8	19.7	38.2	9.4				
1320	80	39.2	39.2	41.9	30.4	45.7	20.8	36.6	36.6	38.7	28.9	42.3	19.2	33.7	33.7	35.4	27.2	38.7	17.4				
1320	85	41.8	41.8	42.5	38.5	46.2	27.9	39.0	39.0	39.4	37.2	42.8	26.4	36.1	36.1	36.3	35.8	39.2	24.8				
1320	90	44.4	44.4	44.3	44.3	46.7	35.2	41.5	41.5	41.5	41.5	43.3	33.7	38.5	38.5	38.5	38.5	39.8	32.3				
1440	75	38.4	35.1	41.9	23.9	45.7	12.7	35.4	33.7	38.6	22.3	42.3	11.2	32.4	31.9	35.2	20.6	38.7	9.3				
1440	80	40.3	40.3	42.5	32.1	46.3	21.6	37.6	37.6	39.2	30.4	42.8	20.0	34.6	34.6	35.8	29.0	39.1	18.3				
1440	85	42.9	42.9	43.3	41.2	46.9	29.3	40.1	40.1	40.3	39.7	43.3	27.8	37.1	37.1	37.1	37.0	39.7	26.4				
1440	90	45.6	45.6	45.5	45.5	47.5	37.3	42.6	42.6	42.6	42.6	44.0	35.9	39.5	39.5	39.5	39.5	40.4	34.9				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
1080	75	27.3	24.4	30.4	16.3	33.6	7.6																
1080	80	28.8	28.8	30.7	22.3	34.0	14.3																
1080	85	31.0	31.0	31.4	29.1	34.4	20.3																
1080	90	33.1	33.1	33.1	33.1	34.8	26.4																
1200	75	28.0	26.6	30.9	17.1	34.1	7.8																
1200	80	29.9	29.9	31.4	24.0	34.6	15.0																
1200	85	32.1	32.1	32.2	31.8	35.0	21.7																
1200	90	34.3	34.3	34.3	34.3	35.5	28.5																
1320	75	28.7	28.3	31.4	18.0	34.6	8.0																
1320	80	30.8	30.8	31.9	25.7	35.0	15.8																
1320	85	33.1	33.1	33.1	33.0	35.5	23.2																
1320	90	35.3	35.3	35.3	35.3	36.1	31.1																
1440	75	29.3	29.2	31.8	19.0	34.9	7.9																
1440	80	31.6	31.6	32.4	27.6	35.4	16.5																
1440	85	33.9	33.9	33.9	33.9	35.9	24.6																
1440	90	36.2	36.2	36.2	36.2	36.6	33.8																

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 20. Gross cooling capacities 4 tons standard efficiency - single phase WSC048E1 - heat pump

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1440	75	46.3	39.0	51.1	28.2	56.2	16.8	43.0	37.1	47.6	26.3	52.4	14.6	39.5	35.1	43.8	24.7	48.4	13.0
1440	80	47.1	45.9	51.6	36.7	56.8	25.8	44.0	43.5	48.1	34.8	53.0	24.1	40.7	40.7	44.3	33.0	49.0	22.3
1440	85	49.6	49.6	52.2	45.0	57.3	34.3	46.7	46.7	48.7	43.2	53.4	32.1	43.6	43.6	44.9	41.3	49.4	30.7
1440	90	52.7	52.7	53.2	51.9	57.8	42.4	49.7	49.7	49.8	49.4	54.0	40.6	46.5	46.5	46.4	46.4	49.8	38.9
1600	75	47.3	41.6	52.1	29.5	57.3	17.3	43.9	39.6	48.5	27.9	53.3	14.9	40.4	37.4	44.6	26.1	49.2	12.1
1600	80	48.5	48.2	52.7	39.0	57.9	26.9	45.3	45.3	49.0	37.2	53.9	25.2	42.2	42.2	45.2	35.3	49.8	23.4
1600	85	51.5	51.5	53.3	48.2	58.3	36.2	48.4	48.4	49.8	46.2	54.4	34.4	45.2	45.2	46.0	43.8	50.3	32.7
1600	90	54.7	54.7	54.8	54.6	58.9	45.4	51.5	51.5	51.5	51.5	54.9	43.6	48.2	48.2	48.2	48.2	50.7	41.8
1760	75	48.2	43.8	53.0	31.0	58.1	17.0	44.8	41.7	49.2	29.3	54.2	16.4	41.1	39.2	45.3	27.5	50.0	14.1
1760	80	49.9	49.9	53.6	41.4	58.7	28.0	46.8	46.8	49.9	39.6	54.7	26.3	43.5	43.5	45.9	37.7	50.5	24.7
1760	85	53.2	53.2	54.4	50.9	59.2	38.1	50.0	50.0	50.8	48.5	55.2	36.5	46.6	46.6	47.0	45.7	50.9	34.8
1760	90	56.4	56.4	56.4	56.4	59.8	48.4	53.2	53.2	53.1	53.1	55.7	46.5	49.6	49.6	49.6	49.6	51.5	44.9
1920	75	49.0	45.9	53.7	32.6	58.9	18.0	45.6	43.4	49.9	30.8	54.8	16.3	41.9	40.7	45.8	28.9	50.5	14.6
1920	80	51.2	51.2	54.4	43.6	59.5	29.1	48.0	48.0	50.5	41.9	55.4	27.4	44.6	44.6	46.5	39.9	51.0	25.9
1920	85	54.6	54.6	55.4	53.1	60.0	40.2	51.3	51.3	51.7	50.4	55.9	38.6	47.8	47.8	47.9	47.6	51.5	36.9
1920	90	58.0	58.0	58.0	58.0	60.6	51.3	54.6	54.6	54.5	54.5	56.6	49.5	51.0	51.0	50.9	50.9	52.2	47.4
		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1440	75	35.8	33.0	39.8	22.8	44.3	12.2												
1440	80	37.5	37.5	40.3	31.2	44.7	20.5												
1440	85	40.2	40.2	41.0	39.0	45.1	28.8												
1440	90	43.0	43.0	43.0	43.0	45.5	37.1												
1600	75	36.6	34.8	40.5	24.1	44.9	13.4												
1600	80	38.8	38.8	41.1	33.5	45.4	21.7												
1600	85	41.7	41.7	42.1	41.0	45.8	30.9												
1600	90	44.6	44.6	44.6	44.6	46.3	40.1												
1760	75	37.4	36.4	41.1	25.6	45.5	12.6												
1760	80	40.0	40.0	41.7	35.8	46.0	22.9												
1760	85	42.9	42.9	43.0	42.8	46.4	33.0												
1760	90	45.9	45.9	45.9	45.9	47.1	42.8												
1920	75	38.1	37.8	41.6	27.1	46.0	12.8												
1920	80	41.0	41.0	42.3	37.8	46.5	23.9												
1920	85	44.1	44.1	44.0	44.0	47.0	35.0												
1920	90	47.1	47.1	47.1	47.1	47.8	44.9												

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

Performance Data

Table 21. Gross cooling capacities 4 tons standard efficiency - three phase WSC048E3,4,W - heat pump

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1440	75	47.2	39.3	52.1	28.6	57.4	17.1	43.8	37.4	48.6	26.7	53.6	15.3	40.3	35.5	44.8	24.9	49.6	13.9
1440	80	48.1	46.7	52.7	37.0	57.9	25.7	44.8	44.2	49.1	35.2	54.2	24.1	41.5	41.5	45.3	33.4	50.1	22.3
1440	85	50.6	50.6	53.3	45.5	58.5	34.0	47.6	47.6	49.7	43.6	54.7	32.5	44.4	44.4	45.9	41.8	50.7	30.7
1440	90	53.7	53.7	54.3	52.7	59.0	42.4	50.6	50.6	50.9	50.2	55.2	41.0	47.4	47.4	47.4	47.4	51.2	39.3
1600	75	48.3	42.0	53.2	29.9	58.5	18.1	44.8	40.0	49.5	28.2	54.6	16.3	41.2	37.9	45.6	26.1	50.5	14.7
1600	80	49.5	49.0	53.8	39.4	59.0	26.3	46.2	46.2	50.1	37.6	55.1	24.4	43.0	43.0	46.3	35.8	51.1	23.6
1600	85	52.5	52.5	54.5	48.8	59.6	36.1	49.4	49.4	50.8	46.8	55.7	34.5	46.1	46.1	47.0	44.5	51.6	32.8
1600	90	55.8	55.8	55.8	55.4	60.2	45.6	52.5	52.5	52.5	52.5	56.2	44.0	49.2	49.2	49.2	49.2	52.0	42.2
1760	75	49.3	44.5	54.1	31.1	59.4	19.0	45.7	42.3	50.3	29.6	55.4	16.5	42.0	39.9	46.3	27.5	51.2	14.5
1760	80	50.8	50.8	54.7	41.8	60.0	28.4	47.7	47.7	51.0	39.9	55.9	26.5	44.4	44.4	47.0	38.0	51.8	24.5
1760	85	54.2	54.2	55.5	51.7	60.5	38.3	51.0	51.0	51.9	49.3	56.5	36.7	47.6	47.6	48.0	46.5	52.4	35.0
1760	90	57.6	57.6	57.5	57.5	61.2	48.7	54.2	54.2	54.2	54.2	57.1	46.9	50.8	50.8	50.8	50.8	52.9	45.3
1920	75	50.1	46.6	54.9	32.7	60.2	19.3	46.5	44.2	51.0	31.0	56.1	18.2	42.8	41.4	46.9	29.0	51.9	14.7
1920	80	52.2	52.2	55.5	44.1	60.8	29.6	49.0	49.0	51.7	42.3	56.6	27.4	45.6	45.6	47.6	40.3	52.4	25.6
1920	85	55.7	55.7	56.5	53.9	61.3	40.3	52.4	52.4	52.8	51.2	57.2	38.9	48.9	48.9	49.1	48.5	53.0	37.1
1920	90	59.2	59.2	59.1	59.1	62.0	51.7	55.7	55.7	55.7	55.7	58.0	50.0	52.2	52.2	52.1	52.1	53.7	48.1

		Ambient Temperature							
		115							
		Entering Wet Bulb							
Air Flow cfm	Ent DB (F)	61		67		73			
		MBh	SHC	MBh	SHC	MBh	SHC		
1440	75	36.6	33.5	40.8	23.0	45.4	12.1		
1440	80	38.3	38.3	41.3	31.4	45.9	20.6		
1440	85	41.1	41.1	42.0	39.6	46.4	29.0		
1440	90	44.0	44.0	44.0	44.0	46.9	37.4		
1600	75	37.4	35.5	41.5	24.4	46.1	12.9		
1600	80	39.7	39.7	42.1	33.8	46.7	21.6		
1600	85	42.7	42.7	43.1	41.7	47.2	31.1		
1600	90	45.7	45.7	45.6	45.6	47.7	40.4		
1760	75	38.3	37.1	42.2	25.9	46.8	13.0		
1760	80	40.9	40.9	42.8	36.1	47.3	22.8		
1760	85	44.0	44.0	44.1	43.7	47.9	33.0		
1760	90	47.1	47.1	47.1	47.1	48.6	43.5		
1920	75	39.1	38.6	42.7	27.2	47.3	13.0		
1920	80	42.0	42.0	43.4	38.4	47.9	24.0		
1920	85	45.2	45.2	45.2	45.2	48.4	35.3		
1920	90	48.4	48.4	48.4	48.4	49.3	45.9		

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



Performance Data

Table 22. Gross cooling capacities 5 tons standard efficiency - single phase WSC060E1 - heat pump

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1800	75	55.3	46.9	60.3	32.1	65.7	17.3	51.5	44.9	56.2	30.5	61.3	15.7	47.4	42.9	51.8	27.8	56.7	13.8
1800	80	57.1	56.3	61.3	43.1	67.0	29.4	53.4	53.2	57.2	41.1	62.4	26.7	49.6	49.6	52.8	39.3	57.7	24.8
1800	85	60.4	60.4	62.6	54.5	67.9	39.5	56.8	56.8	58.4	52.5	63.4	37.3	53.0	53.0	54.1	50.3	58.6	35.4
1800	90	64.1	64.1	64.5	63.6	69.0	50.1	60.4	60.4	60.5	60.3	64.4	48.3	56.6	56.6	56.5	56.5	59.6	46.4
2000	75	56.6	50.2	61.4	33.8	66.9	17.6	52.6	47.9	57.2	31.7	62.4	15.9	48.5	45.6	52.7	29.7	57.6	13.8
2000	80	58.7	58.6	62.6	45.9	68.2	30.0	55.0	55.0	58.4	44.3	63.5	28.6	51.2	51.2	53.8	42.2	58.7	25.5
2000	85	62.4	62.4	64.0	58.3	69.1	41.5	58.7	58.7	59.8	56.0	64.5	39.7	54.8	54.8	55.4	53.4	59.6	38.0
2000	90	66.4	66.4	66.4	66.3	70.3	53.8	62.5	62.5	62.5	62.5	65.6	51.8	58.4	58.4	58.4	58.4	60.7	50.2
2200	75	57.7	53.0	62.4	35.5	67.9	17.9	53.7	50.7	58.0	33.5	63.3	15.1	49.5	47.9	53.5	31.3	58.4	14.2
2200	80	60.2	60.2	63.6	48.9	69.2	31.2	56.5	56.5	59.3	47.0	64.5	29.4	52.6	52.6	54.7	45.0	59.4	27.1
2200	85	64.3	64.3	65.3	61.6	70.1	44.5	60.4	60.4	61.0	59.0	65.5	42.1	56.4	56.4	56.6	55.9	60.5	40.5
2200	90	68.3	68.3	68.3	68.3	71.4	57.2	64.3	64.3	64.3	64.3	66.7	55.7	60.1	60.1	60.0	60.0	61.8	53.9
2400	75	58.5	55.4	63.2	37.2	68.8	17.1	54.5	52.8	58.8	35.2	64.2	15.4	50.4	49.7	54.2	33.2	59.1	13.8
2400	80	61.8	61.8	64.6	51.7	70.1	32.6	57.9	57.9	60.1	49.8	65.2	30.6	53.8	53.8	55.5	47.9	60.1	28.9
2400	85	65.9	65.9	66.5	64.5	71.1	45.9	61.9	61.9	62.2	61.5	66.3	45.0	57.7	57.7	57.7	57.5	61.2	43.1
2400	90	70.1	70.1	70.0	70.0	72.6	61.3	65.9	65.9	65.9	65.9	67.7	59.4	61.5	61.5	61.5	61.5	62.7	57.2

		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73													
		MBh	SHC	MBh	SHC	MBh	SHC												
1800	75	43.2	40.5	47.2	26.2	51.7	12.1												
1800	80	45.8	45.8	48.2	37.2	52.7	22.8												
1800	85	49.0	49.0	49.6	47.6	53.6	33.8												
1800	90	52.4	52.4	52.4	52.4	54.5	44.5												
2000	75	44.3	42.9	48.0	27.9	52.5	12.3												
2000	80	47.2	47.2	49.1	40.2	53.5	24.3												
2000	85	50.6	50.6	50.8	50.2	54.4	36.1												
2000	90	54.0	54.0	54.0	54.0	55.6	48.3												
2200	75	45.2	44.7	48.6	29.2	53.2	12.6												
2200	80	48.4	48.4	49.9	43.1	54.1	25.3												
2200	85	51.9	51.9	52.0	51.9	55.2	38.7												
2200	90	55.5	55.5	55.5	55.5	56.5	51.7												
2400	75	46.0	45.8	49.3	31.1	53.8	12.9												
2400	80	49.5	49.5	50.5	45.6	54.7	26.7												
2400	85	53.1	53.1	53.1	53.1	55.8	41.2												
2400	90	56.8	56.8	56.7	56.7	57.4	54.5												

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 23. Gross cooling capacities 5 tons standard efficiency - three phase WSC060E3,4,W - heat pump

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1800	75	59.6	49.6	66.0	35.9	72.6	21.9	55.6	47.4	61.6	34.4	68.0	20.0	51.5	45.3	57.1	31.8	63.2	18.0
1800	80	61.1	61.0	66.5	46.6	73.5	33.7	57.5	57.5	62.2	44.4	68.9	31.7	53.8	53.8	57.7	42.3	63.9	29.1
1800	85	64.9	64.9	67.3	57.1	73.9	43.3	61.3	61.3	63.0	55.0	69.2	41.3	57.5	57.5	58.6	53.1	64.3	39.3
1800	90	68.9	68.9	69.0	68.9	74.7	53.8	65.2	65.2	65.1	65.1	69.9	51.7	61.3	61.3	61.2	61.2	65.1	49.6
2000	75	61.0	52.9	67.1	37.7	74.0	22.1	56.9	50.8	62.7	35.8	69.2	20.2	52.7	49.0	58.0	33.5	64.2	18.5
2000	80	63.2	63.2	67.8	49.4	74.9	35.2	59.6	59.6	63.4	47.2	70.0	32.6	55.7	55.7	58.8	45.1	64.9	31.1
2000	85	67.4	67.4	68.9	61.3	75.3	45.9	63.6	63.6	64.5	59.6	70.5	43.7	59.6	59.6	60.0	58.3	65.5	41.7
2000	90	71.5	71.5	71.4	71.4	76.1	57.2	67.7	67.7	67.5	67.5	71.3	55.1	63.5	63.5	63.4	63.4	66.3	52.8
2200	75	62.2	56.4	68.3	39.6	75.1	22.4	58.1	54.6	63.7	37.2	70.3	20.5	53.8	52.8	58.9	35.1	65.1	18.5
2200	80	65.2	65.2	69.0	52.1	75.9	36.8	61.4	61.4	64.4	49.9	71.0	33.9	57.4	57.4	59.7	47.8	65.8	31.8
2200	85	69.5	69.5	70.3	66.1	76.5	48.3	65.6	65.6	66.1	64.8	71.5	46.0	61.4	61.4	61.4	61.4	66.5	44.1
2200	90	73.8	73.8	73.8	73.8	77.4	60.7	69.8	69.8	69.7	69.7	72.5	58.6	65.5	65.5	65.4	65.4	67.4	56.7
2400	75	63.4	60.2	69.0	40.9	76.0	22.7	59.2	58.3	64.5	38.8	71.1	20.7	54.9	54.8	59.6	36.7	65.9	18.7
2400	80	66.9	66.9	70.1	54.9	76.8	37.2	63.0	63.0	65.4	52.8	71.8	35.9	58.9	58.9	60.6	50.8	66.6	33.6
2400	85	71.3	71.3	71.8	70.9	77.6	50.5	67.3	67.3	67.4	67.3	72.5	48.6	63.0	63.0	63.0	63.0	67.3	46.3
2400	90	75.9	75.9	75.8	75.8	78.6	64.3	71.7	71.7	71.6	71.6	73.6	62.5	67.2	67.2	67.2	67.2	68.5	60.9
		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73													
		MBh	SHC	MBh	SHC	MBh	SHC												
1800	75	47.1	43.2	52.2	29.6	58.0	16.1												
1800	80	49.9	49.9	52.8	40.1	58.7	27.5												
1800	85	53.4	53.4	53.9	51.7	59.1	37.2												
1800	90	57.0	57.0	57.0	57.0	59.9	47.2												
2000	75	48.3	47.2	53.2	31.5	58.9	16.3												
2000	80	51.6	51.6	53.8	42.8	59.6	28.9												
2000	85	55.3	55.3	55.4	55.3	60.2	39.5												
2000	90	59.1	59.1	59.1	59.1	61.0	50.8												
2200	75	49.4	49.4	53.9	33.2	59.7	16.2												
2200	80	53.1	53.1	54.7	45.7	60.4	29.7												
2200	85	57.0	57.0	56.9	56.9	61.0	41.9												
2200	90	60.9	60.9	60.9	60.9	62.1	54.9												
2400	75	50.5	50.5	54.5	34.3	60.3	16.3												
2400	80	54.4	54.4	55.6	48.9	61.0	30.8												
2400	85	58.5	58.5	58.4	58.4	61.8	44.3												
2400	90	62.5	62.5	62.5	62.5	63.1	59.7												

Note:

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

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
1080	75	35.98	29.32	39.78	21.77	43.79	13.23	33.67	28.00	37.32	20.42	41.12	11.60	31.24	26.70	34.66	18.96	38.27	10.50				
1080	80	36.75	36.14	40.21	27.81	44.32	18.70	34.62	34.55	37.70	26.35	41.66	19.19	32.42	32.42	35.09	24.88	38.87	17.42				
1080	85	38.97	38.97	40.68	33.98	44.77	26.20	36.89	36.89	38.20	32.60	42.07	24.89	34.66	34.66	35.59	31.36	39.20	23.34				
1080	90	41.37	41.37	41.55	40.89	45.12	32.03	39.22	39.22	39.19	39.15	42.48	30.69	36.92	36.92	36.88	36.88	39.58	29.15				
1200	75	36.80	31.29	40.58	22.70	44.56	13.08	34.51	30.19	38.04	21.35	41.82	12.07	31.94	28.81	35.33	19.89	38.93	10.74				
1200	80	37.98	37.98	41.02	29.37	45.25	19.91	35.87	35.87	38.49	27.95	42.46	19.36	33.61	33.61	35.81	26.49	39.52	18.36				
1200	85	40.43	40.43	41.60	36.52	45.62	27.66	38.29	38.29	39.06	35.26	42.84	26.24	35.97	35.97	36.43	34.19	39.90	24.63				
1200	90	42.94	42.94	42.92	42.92	46.01	34.09	40.67	40.67	40.69	40.69	43.25	32.66	38.29	38.29	38.28	38.28	40.34	31.25				
1320	75	37.56	33.62	41.24	23.67	45.25	13.35	35.13	32.23	38.65	21.93	42.41	12.25	32.61	30.88	35.92	20.85	39.47	10.65				
1320	80	39.19	39.19	41.74	30.99	45.98	22.46	37.00	37.00	39.13	29.55	43.09	20.28	34.66	34.66	36.38	28.25	40.09	19.09				
1320	85	41.76	41.76	42.39	39.18	46.35	29.03	39.52	39.52	39.89	38.00	43.49	27.42	37.10	37.10	37.20	36.47	40.52	25.74				
1320	90	44.30	44.30	44.29	44.29	46.76	36.00	42.01	42.01	41.98	41.98	43.93	34.80	39.55	39.55	39.51	39.51	40.99	33.52				
1440	75	38.21	35.56	41.79	24.49	45.87	13.71	35.79	34.23	39.17	23.63	42.95	12.14	33.22	32.55	36.38	21.75	39.93	10.77				
1440	80	40.26	40.26	42.38	32.66	46.51	22.10	38.00	38.00	39.72	31.36	43.60	20.97	35.58	35.58	36.92	30.15	40.56	19.85				
1440	85	42.94	42.94	43.26	41.79	46.93	30.25	40.60	40.60	40.67	40.12	44.03	28.88	38.09	38.09	38.12	38.10	41.01	27.36				
1440	90	45.57	45.57	45.52	45.52	47.42	38.18	43.15	43.15	43.15	43.15	44.56	37.07	40.63	40.63	40.60	40.60	41.57	36.03				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
1080	75	28.69	25.46	31.92	17.50	35.30	9.16																
1080	80	30.12	30.12	32.30	23.39	35.87	16.22																
1080	85	32.31	32.31	32.84	30.14	36.22	21.81																
1080	90	34.47	34.47	34.45	34.45	36.59	27.68																
1200	75	29.36	27.53	32.47	18.40	35.89	8.96																
1200	80	31.22	31.22	32.95	25.14	36.47	16.48																
1200	85	33.50	33.50	33.70	32.88	36.84	23.18																
1200	90	35.78	35.78	35.75	35.75	37.28	29.77																
1320	75	30.02	29.35	32.97	19.05	36.36	9.31																
1320	80	32.18	32.18	33.47	26.95	36.96	17.31																
1320	85	34.54	34.54	34.55	34.52	37.37	24.62																
1320	90	36.90	36.90	36.87	36.87	37.87	32.39																
1440	75	30.66	30.61	33.40	20.29	36.76	9.40																
1440	80	33.03	33.03	33.96	28.89	37.38	18.26																
1440	85	35.46	35.46	35.43	35.43	37.85	25.96																
1440	90	37.89	37.89	37.86	37.86	38.47	34.85																

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 25. Gross cooling capacities 3 tons high efficiency - three phase T/YHC036E,3,4

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
1080	75	36.04	29.24	39.93	21.85	44.03	13.31	33.56	27.96	37.25	19.68	41.15	11.98	30.96	26.64	34.44	18.63	38.07	10.45				
1080	80	36.85	36.25	40.36	27.79	44.56	18.86	34.54	34.48	37.71	26.33	41.72	19.22	32.17	32.17	34.87	24.79	38.71	17.22				
1080	85	39.07	39.07	40.89	34.02	45.02	26.27	36.85	36.85	38.21	32.58	42.13	24.91	34.48	34.48	35.39	31.27	39.05	23.28				
1080	90	41.51	41.51	41.71	40.92	45.41	32.17	39.24	39.24	39.24	39.18	42.52	30.76	36.78	36.78	36.75	36.75	39.44	29.08				
1200	75	36.89	31.39	40.75	22.78	44.80	13.19	34.36	30.13	38.02	21.34	41.86	12.08	31.63	28.72	35.11	19.72	38.73	10.53				
1200	80	38.07	38.07	41.22	29.43	45.44	21.73	35.82	35.82	38.49	27.94	42.51	19.35	33.39	33.39	35.57	26.40	39.36	18.31				
1200	85	40.58	40.58	41.79	36.51	45.90	27.82	38.27	38.27	39.04	35.24	42.91	26.26	35.80	35.80	36.22	34.00	39.75	24.57				
1200	90	43.14	43.14	43.10	43.10	46.32	34.18	40.75	40.75	40.71	40.71	43.32	32.62	38.18	38.18	38.15	38.15	40.20	31.10				
1320	75	37.67	33.65	41.43	23.65	45.47	13.24	35.04	32.16	38.64	21.93	42.46	12.26	32.35	30.88	35.69	20.75	39.29	10.60				
1320	80	39.27	39.27	41.95	31.06	46.28	22.55	36.96	36.96	39.15	29.59	43.13	20.50	34.44	34.44	36.18	28.17	39.93	19.03				
1320	85	41.94	41.94	42.64	39.23	46.63	29.16	39.54	39.54	39.90	38.01	43.54	27.46	36.94	36.94	37.05	36.38	40.35	26.01				
1320	90	44.51	44.51	44.50	44.50	47.07	36.09	42.08	42.08	42.02	42.02	44.03	34.82	39.42	39.42	39.40	39.40	40.86	33.49				
1440	75	38.28	35.59	42.01	24.58	46.08	13.79	35.73	34.21	39.17	23.62	43.00	12.15	32.96	32.43	36.15	21.66	39.73	10.77				
1440	80	40.43	40.43	42.60	32.73	46.77	21.55	37.97	37.97	39.77	31.36	43.69	20.99	35.39	35.39	36.72	30.03	40.41	19.49				
1440	85	43.13	43.13	43.49	41.88	47.26	30.64	40.62	40.62	40.78	40.21	44.14	28.86	37.94	37.94	37.95	37.94	40.89	27.31				
1440	90	45.81	45.81	45.77	45.77	47.72	38.26	43.26	43.26	43.23	43.23	44.68	37.16	40.53	40.53	40.49	40.49	41.48	35.99				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
1080	75	28.08	25.17	31.38	17.36	34.83	9.03																
1080	80	29.66	29.66	31.82	23.19	35.43	15.97																
1080	85	31.91	31.91	32.40	30.00	35.81	21.66																
1080	90	34.14	34.14	34.11	34.11	36.18	27.54																
1200	75	28.80	27.28	31.99	18.16	35.42	8.84																
1200	80	30.78	30.78	32.47	24.98	36.01	16.40																
1200	85	33.12	33.12	33.29	32.64	36.43	23.02																
1200	90	35.44	35.44	35.41	35.41	36.88	29.78																
1320	75	29.47	29.03	32.47	18.66	35.91	9.51																
1320	80	31.75	31.75	32.98	26.77	36.51	17.18																
1320	85	34.17	34.17	34.16	34.15	36.98	24.18																
1320	90	36.56	36.56	36.53	36.53	37.46	32.20																
1440	75	30.16	30.15	32.90	20.10	36.30	9.28																
1440	80	32.60	32.60	33.49	28.79	36.94	17.90																
1440	85	35.10	35.10	35.07	35.07	37.48	25.84																
1440	90	37.55	37.55	37.52	37.52	38.10	34.84																

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 26. Gross cooling capacities 4 tons high efficiency - three phase T/YHC048E1

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
1440	75	45.95	38.53	50.74	26.84	55.90	16.12	42.93	36.94	47.50	26.09	52.40	14.52	39.78	35.43	44.04	23.93	48.77	13.50				
1440	80	46.89	46.79	51.26	35.91	56.52	24.30	44.12	44.12	48.00	34.31	53.00	22.82	41.26	41.26	44.52	32.74	49.25	21.85				
1440	85	49.73	49.73	51.82	44.43	56.96	32.82	47.00	47.00	48.58	42.98	53.46	31.57	44.09	44.09	45.12	41.45	49.74	30.00				
1440	90	52.73	52.73	52.79	52.72	57.39	41.60	49.94	49.94	49.88	49.88	53.86	39.86	46.92	46.92	46.88	46.88	50.10	38.35				
1600	75	46.99	41.23	51.75	28.58	56.91	16.22	43.87	39.64	48.39	27.17	53.34	14.69	40.62	38.08	44.86	25.58	49.54	13.15				
1600	80	48.44	48.44	52.28	38.10	57.59	25.94	45.69	45.69	48.93	36.67	53.95	24.16	42.78	42.78	45.34	35.00	50.14	21.89				
1600	85	51.56	51.56	52.94	47.80	58.01	35.11	48.72	48.72	49.67	46.46	54.43	33.62	45.68	45.68	46.17	44.82	50.58	31.94				
1600	90	54.71	54.71	54.66	54.66	58.50	44.49	51.77	51.77	51.74	51.74	54.89	42.95	48.63	48.63	48.56	48.56	51.07	41.40				
1760	75	47.91	43.99	52.59	29.89	57.79	16.41	44.76	42.38	49.17	28.47	54.13	14.85	41.39	40.38	45.52	26.95	50.25	13.33				
1760	80	49.96	49.96	53.17	40.50	58.39	25.91	47.09	47.09	49.71	38.94	54.76	24.43	44.03	44.03	46.08	37.35	50.86	23.65				
1760	85	53.16	53.16	54.00	51.28	58.92	37.01	50.23	50.23	50.64	49.53	55.23	35.54	47.07	47.07	47.12	47.07	51.32	34.02				
1760	90	56.43	56.43	56.39	56.39	59.42	47.53	53.38	53.38	53.35	53.35	55.81	45.95	50.17	50.17	50.06	50.06	51.81	44.40				
1920	75	48.70	46.51	53.33	31.37	58.51	16.55	45.48	44.48	49.84	29.84	54.84	15.12	42.16	42.08	46.13	28.31	50.89	14.62				
1920	80	51.26	51.26	53.94	42.84	59.16	27.60	48.33	48.33	50.45	41.30	55.45	26.28	45.15	45.15	46.77	39.82	51.47	24.70				
1920	85	54.60	54.60	54.93	54.03	59.66	39.09	51.54	51.54	51.63	51.62	55.94	37.52	48.28	48.28	48.26	48.26	51.90	35.98				
1920	90	57.93	57.93	57.89	57.89	60.25	50.33	54.77	54.77	54.71	54.71	56.53	49.14	51.48	51.48	51.43	51.43	52.60	47.64				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
1440	75	36.31	33.67	40.35	22.51	44.77	11.36																
1440	80	38.23	38.23	40.82	31.03	45.32	19.94																
1440	85	40.97	40.97	41.47	39.94	45.70	28.44																
1440	90	43.68	43.68	43.63	43.63	46.13	36.84																
1600	75	37.12	36.16	41.07	23.90	45.49	11.53																
1600	80	39.58	39.58	41.58	33.38	46.04	21.37																
1600	85	42.39	42.39	42.46	42.41	46.45	30.42																
1600	90	45.23	45.23	45.11	45.11	46.95	39.82																
1760	75	37.88	37.84	41.68	25.29	46.11	12.02																
1760	80	40.75	40.75	42.22	35.78	46.68	22.01																
1760	85	43.69	43.69	43.63	43.63	47.05	32.37																
1760	90	46.61	46.61	46.49	46.49	47.64	43.06																
1920	75	38.76	38.76	42.17	26.62	46.62	12.24																
1920	80	41.77	41.77	42.84	38.18	47.21	23.25																
1920	85	44.78	44.78	44.79	44.79	47.67	34.47																
1920	90	47.78	47.78	47.77	47.77	48.33	46.15																

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 27. Gross cooling capacities 4 tons high efficiency - three phase T/YHC048E,3,4

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1440	75	46.71	38.85	51.74	27.73	57.13	16.82	43.61	37.29	48.41	26.50	53.54	14.96	40.36	35.67	44.85	24.15	49.73	13.25
1440	80	47.59	47.35	52.25	36.26	57.76	25.58	44.68	44.68	48.90	34.65	54.15	23.34	41.84	41.84	45.38	33.05	50.30	21.26
1440	85	50.50	50.50	52.85	44.98	58.26	33.44	47.72	47.72	49.53	43.27	54.64	31.95	44.77	44.77	46.01	41.82	50.80	30.34
1440	90	53.61	53.61	53.82	53.53	58.70	42.00	50.76	50.76	50.72	50.72	55.04	40.23	47.69	47.69	47.65	47.65	51.21	38.72
1600	75	47.84	41.58	52.84	29.51	58.21	16.60	44.65	39.99	49.39	27.30	54.53	15.03	41.27	38.28	45.75	25.88	50.63	13.43
1600	80	49.16	49.16	53.35	38.56	58.84	25.31	46.38	46.38	49.93	37.02	55.15	24.29	43.39	43.39	46.28	35.48	51.23	23.64
1600	85	52.42	52.42	54.04	48.25	59.40	35.49	49.49	49.49	50.64	46.68	55.66	33.77	46.44	46.44	47.07	45.28	51.69	32.28
1600	90	55.66	55.66	55.61	55.61	59.87	44.75	52.69	52.69	52.64	52.64	56.14	43.17	49.48	49.48	49.44	49.44	52.18	41.70
1760	75	48.78	44.24	53.71	30.62	59.15	16.79	45.51	42.63	50.19	28.83	55.38	15.23	42.13	40.85	46.45	27.27	51.40	13.65
1760	80	50.78	50.78	54.29	40.96	59.83	27.31	47.85	47.85	50.76	39.29	55.99	25.63	44.74	44.74	47.02	37.68	52.00	24.76
1760	85	54.11	54.11	55.11	51.57	60.33	37.49	51.12	51.12	51.70	50.06	56.53	35.92	47.90	47.90	48.04	47.80	52.47	34.31
1760	90	57.46	57.46	57.42	57.42	60.91	47.89	54.28	54.28	54.24	54.24	57.06	46.26	51.13	51.13	51.07	51.07	53.02	44.70
1920	75	49.57	46.91	54.49	31.84	59.96	16.95	46.34	45.03	50.91	30.19	56.11	15.50	42.85	42.61	47.08	28.63	52.03	13.75
1920	80	52.16	52.16	55.09	43.23	60.62	27.45	49.16	49.16	51.49	41.58	56.84	26.83	45.99	45.99	47.75	40.07	52.64	25.44
1920	85	55.60	55.60	56.10	54.73	61.16	39.54	52.52	52.52	52.67	52.46	57.25	37.89	49.18	49.18	49.16	49.16	53.11	36.31
1920	90	59.08	59.08	59.03	59.03	61.77	50.65	55.87	55.87	55.83	55.83	57.93	49.34	52.46	52.46	52.39	52.39	53.81	47.85
		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73													
		MBh	SHC	MBh	SHC	MBh	SHC												
1440	75	36.86	34.00	41.06	22.65	45.66	11.65												
1440	80	38.74	38.74	41.56	31.33	46.24	19.65												
1440	85	41.58	41.58	42.21	40.24	46.65	28.73												
1440	90	44.41	44.41	44.31	44.31	47.05	37.10												
1600	75	37.73	36.56	41.84	24.10	46.44	11.79												
1600	80	40.16	40.16	42.37	33.65	47.02	21.84												
1600	85	43.08	43.08	43.26	43.03	47.46	30.66												
1600	90	46.01	46.01	45.97	45.97	47.92	39.96												
1760	75	38.50	38.36	42.48	25.56	47.09	11.97												
1760	80	41.39	41.39	43.06	36.07	47.68	22.17												
1760	85	44.41	44.41	44.38	44.38	48.08	32.71												
1760	90	47.44	47.44	47.38	47.38	48.65	43.22												
1920	75	39.34	39.34	43.00	26.92	47.65	12.48												
1920	80	42.46	42.46	43.68	38.44	48.22	23.54												
1920	85	45.61	45.61	45.54	45.54	48.73	34.74												
1920	90	48.69	48.69	48.64	48.64	49.43	46.51												

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 28. Gross cooling capacities 5 tons high efficiency - three phase T/YHC060E1

		Ambient Temperature																	
		85						95						105					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1800	75	58.30	49.11	64.82	36.01	71.80	22.38	54.69	47.20	60.92	34.31	67.62	21.26	50.77	45.18	56.61	31.89	62.96	17.81
1800	80	59.42	59.42	65.25	46.53	72.33	32.77	56.25	56.25	61.31	44.31	68.14	31.10	52.79	52.79	57.05	42.23	63.55	29.03
1800	85	63.16	63.16	65.74	56.78	72.63	43.30	59.93	59.93	61.85	54.88	68.47	41.26	56.37	56.37	57.58	52.91	63.89	39.18
1800	90	66.88	66.88	66.84	66.84	73.03	53.49	63.61	63.61	63.54	63.54	68.85	51.44	60.00	60.00	59.94	59.94	64.23	49.53
2000	75	59.61	52.43	66.05	37.54	73.14	22.70	55.88	50.55	62.04	35.65	68.78	20.78	51.79	48.42	57.62	33.57	63.96	19.43
2000	80	61.61	61.61	66.59	48.99	73.65	34.02	58.33	58.33	62.49	47.13	69.30	32.43	54.68	54.68	58.13	45.12	64.55	30.41
2000	85	65.50	65.50	67.13	60.90	73.98	46.03	62.15	62.15	63.13	58.96	69.71	43.84	58.48	58.48	58.80	57.04	64.92	41.61
2000	90	69.44	69.44	69.35	69.35	74.37	57.11	65.99	65.99	65.92	65.92	70.11	55.11	62.24	62.24	62.19	62.19	65.36	53.13
2200	75	60.71	55.72	67.10	38.84	74.13	22.74	56.94	53.79	63.01	37.68	69.76	21.05	52.80	51.75	58.50	35.12	64.95	19.16
2200	80	63.54	63.54	67.65	51.87	74.78	35.88	60.12	60.12	63.51	49.97	70.37	33.82	56.41	56.41	59.03	47.98	65.47	31.79
2200	85	67.60	67.60	68.37	64.96	75.12	47.62	64.14	64.14	64.38	63.17	70.69	46.27	60.27	60.27	60.21	60.21	65.85	44.05
2200	90	71.64	71.64	71.65	71.65	75.57	60.68	68.14	68.14	68.06	68.06	71.11	58.71	64.16	64.16	64.11	64.11	66.37	56.96
2400	75	61.71	58.91	67.98	41.14	75.01	23.72	57.92	57.05	63.81	39.16	70.61	21.34	53.87	53.87	59.23	36.47	65.63	20.09
2400	80	65.23	65.23	68.54	54.70	75.72	37.17	61.72	61.72	64.41	52.84	71.13	35.16	57.90	57.90	59.90	50.86	66.24	33.11
2400	85	69.37	69.37	69.63	69.09	76.08	50.15	65.90	65.90	65.83	65.83	71.63	48.28	61.88	61.88	61.86	61.86	66.66	46.63
2400	90	73.64	73.64	73.58	73.58	76.59	64.31	70.00	70.00	69.93	69.93	72.17	62.57	65.92	65.92	65.86	65.86	67.26	60.67
		Ambient Temperature																	
		115																	
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																	
		61		67		73		61		67		73		61		67		73	
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1800	75	46.38	43.01	51.90	29.75	57.98	17.23												
1800	80	48.96	48.96	52.35	40.09	58.46	26.96												
1800	85	52.46	52.46	53.01	50.89	58.88	37.16												
1800	90	56.01	56.01	55.96	55.96	59.24	47.44												
2000	75	47.42	46.28	52.81	30.85	58.89	16.74												
2000	80	50.75	50.75	53.34	43.01	59.42	28.29												
2000	85	54.38	54.38	54.38	54.38	59.85	39.61												
2000	90	58.05	58.05	58.02	58.02	60.23	51.15												
2200	75	48.52	48.52	53.60	33.16	59.71	17.30												
2200	80	52.27	52.27	54.18	45.81	60.26	29.65												
2200	85	56.09	56.09	56.05	56.05	60.64	42.15												
2200	90	59.85	59.85	59.80	59.80	61.20	54.93												
2400	75	49.75	49.75	54.27	34.65	60.39	17.26												
2400	80	53.58	53.58	54.88	48.84	60.95	30.94												
2400	85	57.52	57.52	57.45	57.45	61.24	44.63												
2400	90	61.46	61.46	61.39	61.39	62.12	58.89												

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

		Ambient Temperature																					
		85						95						105									
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73		61		67		73		61		67		73					
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC				
1800	75	59.56	49.58	65.99	35.89	72.88	22.54	55.71	47.49	61.89	34.49	68.49	20.74	51.74	45.43	57.53	32.41	63.82	18.60				
1800	80	60.46	60.32	66.42	46.59	73.49	33.29	57.05	57.05	62.32	44.54	69.01	31.17	53.52	53.52	57.96	42.65	64.32	29.29				
1800	85	64.08	64.08	66.89	57.00	73.87	43.37	60.69	60.69	62.82	55.07	69.44	41.48	57.08	57.08	58.52	53.07	64.69	39.39				
1800	90	67.81	67.81	67.85	67.72	74.21	53.63	64.34	64.34	64.27	64.27	69.76	51.42	60.65	60.65	60.60	60.60	65.06	49.57				
2000	75	60.83	52.78	67.28	37.85	74.20	22.90	56.93	50.81	63.03	35.70	69.61	21.19	52.84	48.74	58.59	33.81	64.89	18.98				
2000	80	62.57	62.57	67.73	49.35	74.82	34.58	59.12	59.12	63.49	47.33	70.20	32.64	55.45	55.45	59.03	45.41	65.39	30.54				
2000	85	66.45	66.45	68.38	61.14	75.15	45.81	62.92	62.92	64.16	59.19	70.62	43.78	59.18	59.18	59.74	57.16	65.78	41.83				
2000	90	70.36	70.36	70.32	70.32	75.55	57.08	66.77	66.77	66.69	66.69	71.02	55.15	62.89	62.89	62.83	62.83	66.22	53.24				
2200	75	61.94	56.03	68.33	39.54	75.28	23.26	57.96	54.06	64.01	37.90	70.63	20.97	53.76	52.00	59.41	35.31	65.76	19.07				
2200	80	64.51	64.51	68.83	52.16	75.90	35.93	60.94	60.94	64.56	50.21	71.23	33.87	57.18	57.18	59.98	48.17	66.33	31.93				
2200	85	68.48	68.48	69.55	65.16	76.27	48.35	64.88	64.88	65.34	63.36	71.68	46.32	61.01	61.01	60.99	60.92	66.71	44.27				
2200	90	72.56	72.56	72.60	72.60	76.79	60.75	68.86	68.86	68.80	68.80	72.08	58.83	64.84	64.84	64.79	64.79	67.17	56.86				
2400	75	62.94	59.31	69.23	41.24	76.12	22.87	58.90	57.26	64.84	39.07	71.44	21.67	54.79	54.68	60.19	36.97	66.53	19.50				
2400	80	66.23	66.23	69.85	55.03	76.88	37.13	62.54	62.54	65.44	52.99	72.05	35.12	58.63	58.63	60.76	51.02	67.10	33.05				
2400	85	70.45	70.45	70.82	69.31	77.29	51.04	66.65	66.65	66.65	66.62	72.52	48.51	62.62	62.62	62.52	62.52	67.61	46.75				
2400	90	74.58	74.58	74.53	74.53	77.77	64.34	70.73	70.73	70.66	70.66	72.91	62.47	66.57	66.57	66.53	66.53	68.23	60.73				
		Ambient Temperature																					
		115																					
Air Flow cfm	Ent DB (F)	Entering Wet Bulb																					
		61		67		73																	
		MBh	SHC	MBh	SHC	MBh	SHC																
1800	75	47.43	43.28	52.93	30.03	58.87	16.71																
1800	80	49.78	49.78	53.40	40.31	59.38	27.15																
1800	85	53.27	53.27	53.96	51.01	59.77	37.20																
1800	90	56.69	56.69	56.65	56.65	60.12	47.72																
2000	75	48.47	46.53	53.82	31.65	59.84	16.97																
2000	80	51.57	51.57	54.36	43.23	60.35	28.45																
2000	85	55.17	55.17	55.30	55.11	60.73	40.17																
2000	90	58.74	58.74	58.72	58.72	61.22	51.25																
2200	75	49.42	49.35	54.60	33.15	60.62	17.27																
2200	80	53.11	53.11	55.16	45.98	61.13	29.79																
2200	85	56.81	56.81	56.76	56.76	61.58	42.48																
2200	90	60.60	60.60	60.52	60.52	62.10	55.08																
2400	75	50.67	50.67	55.27	34.98	61.27	17.50																
2400	80	54.47	54.47	55.91	49.04	61.81	31.05																
2400	85	58.32	58.32	58.24	58.24	62.28	44.92																
2400	90	62.17	62.17	62.12	62.12	62.89	58.75																

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

Direct Drive - Evaporator Fan Performance

Table 30. 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						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	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
3		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
3		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
3		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
3		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
3		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
3		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
3		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
3	TSC036E1 Horizontal Airflow	1440	—	—	—	0.12	646	0.23	0.29	732	0.30	0.43	802	0.36	0.57	871	0.43
3		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
3		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
3		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
3		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
3		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
3		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
3		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
4	TSC048E1 Downflow Airflow	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
4		1440	—	—	—	0.11	642	0.23	0.26	732	0.30	0.40	805	0.36	0.52	872	0.43
4		1280	0.60	865	0.36	0.84	977	0.47	1.02	1044	0.55	1.17	1090	0.63	—	—	—
4		1360	0.48	833	0.35	0.72	944	0.45	0.90	1012	0.54	1.04	1062	0.61	—	—	—
4		1440	0.37	802	0.34	0.60	912	0.44	0.77	980	0.52	0.92	1033	0.60	—	—	—
4		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
4		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
4		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
4	TSC048E1 Horizontal Airflow	1760	—	—	—	0.13	781	0.38	0.27	851	0.45	0.43	920	0.53	0.64	1006	0.63
4		1840	—	—	—	0.01	748	0.36	0.14	819	0.43	0.31	891	0.52	0.50	975	0.62
4		1920	—	—	—	—	—	—	0.02	787	0.42	0.19	863	0.50	0.37	944	0.60
4		1280	0.61	864	0.36	0.84	967	0.47	1.00	1038	0.55	1.16	1115	0.65	—	—	—
4		1360	0.51	831	0.35	0.73	935	0.45	0.88	1006	0.53	1.05	1084	0.63	—	—	—
4		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
4		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
4		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
5	TSC060E1 Downflow Airflow	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
5		1760	—	—	—	0.18	779	0.38	0.32	848	0.45	0.48	925	0.54	0.64	993	0.63
5		1840	—	—	—	0.08	748	0.36	0.21	816	0.43	0.37	893	0.52	0.52	963	0.61
5		1920	—	—	—	—	—	—	0.10	784	0.42	0.26	861	0.50	0.40	932	0.59
5		1600	0.75	1006	0.60	0.91	1065	0.69	—	—	—	—	—	—	—	—	—
5		1700	0.60	969	0.58	0.75	1024	0.66	0.96	1101	0.77	—	—	—	—	—	—
5		1800	0.45	933	0.56	0.58	982	0.63	0.78	1059	0.74	—	—	—	—	—	—
5		1900	0.30	896	0.54	0.42	941	0.61	0.61	1017	0.71	0.82	1105	0.83	—	—	—
5	TSC060E1 Horizontal Airflow	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
5		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
5		2200	—	—	—	—	—	—	0.08	891	0.62	0.28	975	0.74	0.37	1007	0.79
5		2300	—	—	—	—	—	—	—	—	—	0.10	932	0.70	0.20	969	0.76
5		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.03	931	0.73
5		1600	0.73	1003	0.60	0.90	1075	0.69	—	—	—	—	—	—	—	—	—
5		1700	0.60	968	0.58	0.74	1034	0.67	0.89	1104	0.77	—	—	—	—	—	—
5		1800	0.46	934	0.56	0.59	993	0.64	0.74	1064	0.74	—	—	—	—	—	—
5	TSC060E1 Horizontal Airflow	1900	0.33	899	0.54	0.44	952	0.62	0.59	1023	0.71	0.75	1095	0.83	—	—	—
5		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
5		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
5		2200	—	—	—	0.00	837	0.54	0.13	902	0.63	0.28	971	0.73	0.37	1012	0.80
5		2300	—	—	—	—	—	—	0.00	868	0.61	0.12	930	0.70	0.21	972	0.77
5		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 31. Multispeed direct drive evaporator fan performance 3 - 5 tons - standard efficiency - low & medium gas heat TSC036, 048, 060E1

			External Static Pressure (Inches of Water) & Motor Power (Bhp) ^(a)														
			Standard Low									Standard High					
			Rated			Speed			Mid Speed			Speed			High Speed		
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			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
3		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
3		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		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
3		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
3		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
3		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
3		1380	—	—	—	0.11	647	0.21	0.31	763	0.29	0.55	878	0.39	0.68	931	0.45
3		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
3	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
3	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	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
3	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
3	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
3	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
3	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
3	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	—	—	—	—	—	—
4		1360	0.59	903	0.41	0.76	973	0.48	0.97	1061	0.57	1.14	1116	0.64	—	—	—
4		1440	0.47	874	0.39	0.63	943	0.46	0.84	1027	0.56	1.00	1085	0.62	—	—	—
4		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
4		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
4		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
4		1760	—	—	—	0.12	822	0.41	0.28	892	0.48	0.45	958	0.55	0.61	1024	0.64
4		1840	—	—	—	—	—	—	0.15	858	0.46	0.31	926	0.53	0.47	992	0.62
4		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	—	—
4	1360		0.54	863	0.39	0.70	935	0.46	0.88	1016	0.55	1.01	1069	0.61	—	—	—
4	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
4	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
4	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
4	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
4	1760		—	—	—	0.12	777	0.38	0.26	842	0.46	0.40	911	0.52	0.55	973	0.61
4	1840		—	—	—	0.01	745	0.37	0.13	807	0.44	0.28	879	0.51	0.42	941	0.59
4	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	—	—	—	—	—	—	—	—	—	—	—	—
5		1700	0.79	1068	0.68	0.91	1120	0.77	—	—	—	—	—	—	—	—	—
5		1800	0.60	1026	0.66	0.73	1079	0.74	—	—	—	—	—	—	—	—	—
5		1900	0.42	984	0.63	0.54	1038	0.71	0.69	1093	0.78	—	—	—	—	—	—
5		2000	0.24	942	0.60	0.36	997	0.68	0.50	1050	0.74	0.60	1079	0.82	—	—	—
5		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
5		2200	—	—	—	0.00	916	0.63	0.12	963	0.68	0.24	1001	0.76	0.32	1036	0.83
5		2300	—	—	—	—	—	—	0.00	936	0.66	0.05	962	0.73	0.13	994	0.79
5		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.00	965	0.77
5		YSC060E1**L,M Horizontal Airflow	1600	0.83	1054	0.67	—	—	—	—	—	—	—	—	—	—	—
5	1700		0.67	1013	0.65	0.83	1084	0.74	—	—	—	—	—	—	—	—	—
5	1800		0.51	971	0.62	0.65	1039	0.71	0.75	1075	0.76	—	—	—	—	—	—
5	1900		0.36	930	0.59	0.48	995	0.68	0.57	1031	0.73	0.72	1086	0.82	—	—	—
5	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
5	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
5	2200		—	—	—	0.00	877	0.60	0.02	898	0.64	0.17	963	0.73	0.29	1010	0.81
5	2300		—	—	—	—	—	—	—	—	—	0.00	924	0.70	0.10	968	0.77
5	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.



Direct Drive - Evaporator Fan Performance

Table 32. 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						Standard High									
			Rated			Speed			Mid Speed			Speed			High Speed			
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			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	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
3			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
3			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
3			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
3			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
3		Airflow	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
3			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
3			1380	—	—	—	0.11	647	0.21	0.31	763	0.28	0.55	878	0.38	0.68	931	0.44
3			1440	—	—	—	0.03	622	0.20	0.23	740	0.28	0.47	859	0.37	0.60	910	0.43
3			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
3	YSC036E1**H	Horizontal	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
3			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
3			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
3			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
3			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
3		Airflow	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
3			1380	—	—	—	0.14	663	0.21	0.32	765	0.28	0.54	872	0.38	0.69	945	0.45
3			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	1280	0.73	951	0.44	0.93	1025	0.52	1.10	1084	0.60	—	—	—	—	—	—
4			1360	0.61	917	0.42	0.80	991	0.50	0.96	1051	0.58	1.14	1116	0.67	—	—	—
4			1440	0.48	883	0.41	0.66	957	0.49	0.82	1019	0.56	1.00	1085	0.65	—	—	—
4			1520	0.35	849	0.39	0.53	923	0.47	0.69	986	0.55	0.86	1053	0.63	—	—	—
4			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
4			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
4			1760	—	—	—	0.12	820	0.42	0.28	889	0.49	0.45	958	0.57	0.62	1028	0.66
4		Horizontal	1840	—	—	—	—	—	—	0.14	857	0.47	0.31	926	0.55	0.47	995	0.64
4			1920	—	—	—	—	—	—	0.01	824	0.46	0.17	895	0.53	0.32	962	0.62
4			1280	0.69	933	0.43	0.86	1005	0.51	1.04	1075	0.59	1.18	1124	0.67	—	—	—
4			1360	0.57	899	0.42	0.74	971	0.49	0.91	1041	0.57	1.05	1091	0.65	—	—	—
4			1440	0.45	865	0.40	0.61	938	0.48	0.78	1006	0.56	0.92	1059	0.63	—	—	—
4			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
4			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
4	Airflow	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	
4		1760	—	—	—	0.11	803	0.41	0.25	870	0.48	0.39	928	0.55	0.55	999	0.65	
4		1840	—	—	—	—	—	—	0.12	835	0.46	0.26	896	0.54	0.42	968	0.63	
4		1920	—	—	—	—	—	—	—	—	—	0.12	863	0.52	0.29	937	0.61	
5	YSC060E1**H	Downflow	1600	0.97	1110	0.73	—	—	—	—	—	—	—	—	—	—	—	—
5			1700	0.79	1068	0.70	0.91	1120	0.78	—	—	—	—	—	—	—	—	—
5			1800	0.60	1026	0.67	0.73	1079	0.75	—	—	—	—	—	—	—	—	—
5			1900	0.42	984	0.65	0.54	1038	0.72	0.69	1093	0.81	—	—	—	—	—	—
5			2000	0.24	942	0.62	0.36	997	0.69	0.50	1050	0.78	0.60	1079	0.84	—	—	—
5			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
5			2200	—	—	—	0.00	916	0.64	0.12	963	0.71	0.24	1001	0.78	0.32	1036	0.83
5		Horizontal	2300	—	—	—	—	—	—	0.00	936	0.69	0.05	962	0.75	0.13	994	0.79
5			2400	—	—	—	—	—	—	—	—	—	—	—	—	0.00	965	0.77
5			1600	0.95	1110	0.73	—	—	—	—	—	—	—	—	—	—	—	—
5			1700	0.76	1064	0.70	0.87	1110	0.77	—	—	—	—	—	—	—	—	—
5			1800	0.58	1019	0.67	0.69	1067	0.74	—	—	—	—	—	—	—	—	—
5			1900	0.40	973	0.64	0.51	1024	0.71	0.64	1075	0.79	—	—	—	—	—	—
5			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
5	Airflow	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	
5		2200	—	—	—	0.00	907	0.63	0.08	949	0.70	0.18	989	0.77	0.26	1017	0.81	
5		2300	—	—	—	—	—	—	—	—	—	0.00	949	0.74	0.07	975	0.78	
5			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 33. Multispeed direct drive evaporator fan performance 3 - 5 tons - standard efficiency - WSC036, 048, 060E1

			External Static Pressure (Inches of Water) & Motor Power (Bhp) ^(a)														
			Standard Low									Standard High					
			Rated			Speed			Mid Speed			Speed			High Speed		
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
Tons	Unit Model	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	WSC036E1 Downflow Airflow	960	0.43	707	0.21	0.70	843	0.38	0.88	919	0.38	1.02	979	0.36	1.15	1027	0.50
3		1020	0.37	687	0.20	0.62	818	0.37	0.80	896	0.37	0.94	956	0.35	1.07	1006	0.49
3		1080	0.31	668	0.19	0.55	792	0.36	0.73	872	0.36	0.87	933	0.34	0.99	985	0.48
3		1140	0.25	648	0.19	0.47	766	0.35	0.65	849	0.35	0.79	911	0.33	0.91	964	0.47
3		1200	0.19	628	0.18	0.39	740	0.34	0.57	826	0.34	0.71	888	0.32	0.83	943	0.46
3		1260	0.13	609	0.18	0.31	715	0.32	0.50	803	0.33	0.63	866	0.32	0.75	922	0.45
3		1320	0.07	589	0.17	0.24	689	0.31	0.42	780	0.32	0.56	843	0.31	0.68	901	0.44
3		1380	0.01	569	0.17	0.16	663	0.30	0.34	757	0.31	0.48	820	0.30	0.60	880	0.43
3		1440	—	—	—	0.08	637	0.29	0.26	734	0.30	0.40	798	0.29	0.52	859	0.42
3	WSC036E1 Horizontal Airflow	960	0.40	707	0.21	0.69	856	0.31	0.88	941	0.39	1.03	987	0.45	1.16	1034	0.50
3		1020	0.35	688	0.20	0.62	831	0.30	0.80	916	0.38	0.95	967	0.44	1.08	1011	0.49
3		1080	0.30	669	0.19	0.55	806	0.29	0.73	891	0.37	0.87	947	0.43	1.00	989	0.48
3		1140	0.24	650	0.19	0.48	781	0.28	0.65	866	0.36	0.79	927	0.42	0.92	966	0.47
3		1200	0.19	631	0.18	0.41	756	0.28	0.58	841	0.35	0.71	906	0.41	0.84	943	0.46
3		1260	0.14	612	0.18	0.34	731	0.27	0.50	816	0.34	0.63	886	0.40	0.76	920	0.45
3		1320	0.09	593	0.17	0.26	706	0.26	0.43	791	0.33	0.55	866	0.39	0.68	898	0.44
3		1380	0.04	574	0.17	0.19	681	0.25	0.35	766	0.32	0.47	846	0.38	0.60	875	0.43
3		1440	—	—	—	0.12	655	0.24	0.28	741	0.30	0.40	826	0.37	0.52	852	0.42
4	WSC048E1 Downflow Airflow	1280	0.60	865	0.36	0.84	977	0.47	1.02	1044	0.55	1.17	1090	0.63	—	—	—
4		1360	0.48	833	0.35	0.72	944	0.45	0.90	1012	0.54	1.04	1062	0.61	—	—	—
4		1440	0.37	802	0.34	0.60	912	0.44	0.77	980	0.52	0.92	1033	0.60	—	—	—
4		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
4		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
4		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
4		1760	—	—	—	0.13	781	0.38	0.27	851	0.45	0.43	920	0.53	0.64	1006	0.63
4		1840	—	—	—	0.01	748	0.36	0.14	819	0.43	0.31	891	0.52	0.50	975	0.62
4		1920	—	—	—	—	—	—	0.02	787	0.42	0.19	863	0.50	0.37	944	0.60
4	WSC048E1 Horizontal Airflow	1280	0.61	864	0.36	0.84	967	0.47	1.00	1038	0.55	1.16	1115	0.65	—	—	—
4		1360	0.51	831	0.35	0.73	935	0.45	0.88	1006	0.53	1.05	1084	0.63	—	—	—
4		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
4		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
4		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
4		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
4		1760	—	—	—	0.18	779	0.38	0.32	848	0.45	0.48	925	0.54	0.64	993	0.63
4		1840	—	—	—	0.08	748	0.36	0.21	816	0.43	0.37	893	0.52	0.52	963	0.61
4		1920	—	—	—	—	—	—	0.10	784	0.42	0.26	861	0.50	0.40	932	0.59
5	WSC060E1 Downflow Airflow	1600	0.83	888	0.49	0.95	948	0.56	1.19	1048	0.67	—	—	—	—	—	—
5		1700	0.69	847	0.46	0.82	908	0.53	1.04	1004	0.64	1.33	1110	0.78	—	—	—
5		1800	0.56	806	0.44	0.69	867	0.51	0.90	959	0.62	1.18	1063	0.75	—	—	—
5		1900	0.43	764	0.42	0.56	826	0.48	0.76	915	0.59	1.02	1016	0.71	—	—	—
5		2000	0.30	723	0.40	0.43	785	0.46	0.62	870	0.56	0.87	969	0.68	1.18	1089	0.88
5		2100	0.16	681	0.37	0.30	744	0.44	0.47	826	0.53	0.71	922	0.65	1.03	1044	0.84
5		2200	0.03	640	0.35	0.17	703	0.41	0.33	781	0.50	0.56	876	0.61	0.87	999	0.81
5		2300	—	—	—	0.04	663	0.39	0.19	737	0.47	0.41	829	0.58	0.72	954	0.77
5		2400	—	—	—	—	—	—	0.05	693	0.44	0.25	782	0.55	0.56	909	0.73
5	WSC060E1 Horizontal Airflow	1600	0.76	884	0.48	0.82	932	0.55	0.98	1022	0.66	1.13	1104	0.77	—	—	—
5		1700	0.63	842	0.46	0.69	893	0.52	0.85	981	0.63	1.00	1061	0.74	—	—	—
5		1800	0.50	801	0.44	0.57	854	0.50	0.72	941	0.60	0.87	1018	0.71	—	—	—
5		1900	0.36	759	0.42	0.45	815	0.48	0.60	900	0.58	0.74	975	0.68	—	—	—
5		2000	0.23	718	0.39	0.32	776	0.46	0.47	859	0.55	0.61	932	0.65	0.87	1069	0.86
5		2100	0.10	676	0.37	0.20	737	0.43	0.34	818	0.53	0.49	890	0.62	0.74	1025	0.83
5		2200	—	—	—	0.07	699	0.41	0.22	778	0.50	0.36	847	0.59	0.61	980	0.79
5		2300	—	—	—	—	—	—	0.09	737	0.47	0.23	804	0.56	0.48	936	0.75
5		2400	—	—	—	—	—	—	—	—	—	0.10	761	0.53	0.35	892	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 34. Multispeed direct drive evaporator fan performance 3 - 5 tons - high efficiency - no electric heat
THC036, 048, 060E1,3,4

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (Bhp) ^(a)														
			Standard Low			Mid Speed			Standard High			High Speed					
			Rated Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	THC036E1,3,4 Downflow	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
3		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
3		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
3		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
3		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
3		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
3		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
3		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
3	THC036E1,3,4 Horizontal Airflow	1440	—	—	—	0.12	646	0.23	0.29	732	0.30	0.43	802	0.36	0.57	871	0.43
3		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
3		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
3		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
3		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
3		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
3		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
3		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
3	THC048E1,3,4 Downflow	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
3		1440	—	—	—	0.11	642	0.23	0.26	732	0.30	0.40	805	0.36	0.52	872	0.43
4		1280	0.65	805	0.31	0.86	902	0.40	1.04	966	0.48	1.27	1042	0.58	—	—	—
4		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
4		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
4		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
4		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
4		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
4	THC048E1,3,4 Horizontal Airflow	1760	—	—	—	0.26	686	0.30	0.43	772	0.38	0.63	847	0.47	0.85	939	0.58
4		1840	—	—	—	0.16	650	0.29	0.33	740	0.36	0.53	814	0.45	0.74	905	0.55
4		1920	—	—	—	0.06	614	0.27	0.23	707	0.35	0.42	782	0.43	0.62	870	0.53
4		1280	0.56	795	0.31	0.77	880	0.39	0.95	967	0.48	1.16	1040	0.57	—	—	—
4		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
4		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
4		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
4		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
4	THC060E1,3,4 Downflow	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
4		1760	—	—	—	0.20	681	0.30	0.37	774	0.38	0.56	861	0.48	0.76	956	0.59
4		1840	—	—	—	0.11	647	0.29	0.28	742	0.37	0.46	831	0.46	0.66	926	0.57
4		1920	—	—	—	0.01	614	0.27	0.18	710	0.35	0.36	802	0.44	0.56	896	0.55
5		1600	0.82	918	0.50	1.04	1002	0.60	1.26	1087	0.72	—	—	—	—	—	—
5		1700	0.67	873	0.47	0.89	957	0.58	1.11	1043	0.69	—	—	—	—	—	—
5		1800	0.53	828	0.45	0.74	913	0.55	0.96	1000	0.66	1.16	1083	0.78	—	—	—
5		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
5	THC060E1,3,4 Horizontal Airflow	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
5		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
5		2200	—	—	—	0.15	735	0.44	0.37	827	0.55	0.57	914	0.66	0.71	971	0.75
5		2300	—	—	—	0.00	691	0.42	0.22	784	0.52	0.42	872	0.63	0.56	929	0.72
5		2400	—	—	—	—	—	—	0.07	741	0.49	0.27	830	0.60	0.41	886	0.68
5		1600	0.71	918	0.50	0.91	1001	0.60	1.09	1070	0.71	—	—	—	—	—	—
5		1700	0.59	875	0.47	0.78	959	0.58	0.96	1029	0.68	1.11	1102	0.79	—	—	—
5		1800	0.46	832	0.45	0.65	916	0.55	0.82	987	0.65	0.97	1063	0.77	—	—	—
5	THC060E1,3,4 Downflow	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
5		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
5		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
5		2200	—	—	—	0.12	746	0.45	0.27	819	0.54	0.44	904	0.65	0.59	968	0.75
5		2300	—	—	—	—	—	—	0.13	778	0.51	0.31	865	0.62	0.45	926	0.72
5		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.

Direct Drive - Evaporator Fan Performance

Table 35. Multispeed direct drive evaporator fan performance 3 - 5 tons - high efficiency - low & medium gas heat YHC036,048, 060E1,3,4

Tons	Unit Model Number	cfm	External Static Pressure (Inches of Water) & Motor Power (Bhp) ^(a)														
			Standard Low					Standard High					High Speed				
			Rated		Speed			Mid Speed				Speed				Speed Set 5	
			Speed Set 1	Speed Set 2	Speed Set 3	Speed Set 4	Speed Set 5	Speed Set 6	Speed Set 7	Speed Set 8	Speed Set 9	Speed Set 10	Speed Set 11	Speed Set 12	Speed Set 13	Speed Set 14	Speed Set 15
			ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3		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
3		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
3		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**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
3	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
3	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
3		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
3		1380	—	—	—	0.11	647	0.21	0.31	763	0.29	0.55	878	0.39	0.68	931	0.45
3		1440	—	—	—	0.03	622	0.21	0.23	740	0.28	0.47	859	0.38	0.60	910	0.44
3		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
3		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
3		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**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
3	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
3	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
3		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
3		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
3		1440	—	—	—	0.14	654	0.22	0.33	768	0.29	0.51	859	0.38	0.69	942	0.45
4		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
4		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
4		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	YHC048E1,3,4**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
4	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
4	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
4		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
4		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
4		1920	—	—	—	0.08	632	0.29	0.23	705	0.36	0.23	705	0.36	0.41	786	0.44
4		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
4		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
4		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	YHC048E1,3,4**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
4	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
4	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
4		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
4		1840	—	—	—	0.09	657	0.30	0.25	746	0.38	0.25	746	0.38	0.40	815	0.46
4		1920	—	—	—	—	—	—	0.14	713	0.36	0.14	713	0.36	0.29	783	0.44
5		1600	0.90	962	0.55	1.07	1027	0.64	1.28	1099	0.75	—	—	—	—	—	—
5		1700	0.76	919	0.53	0.93	985	0.61	1.14	1060	0.72	—	—	—	—	—	—
5		1800	0.62	875	0.50	0.78	943	0.59	0.99	1022	0.70	1.15	1092	0.81	—	—	—
5	YHC060E1,3,4**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
5	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
5	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
5		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
5		2300	—	—	—	0.06	730	0.46	0.26	830	0.57	0.41	887	0.66	0.58	958	0.77
5		2400	—	—	—	—	—	—	0.12	792	0.54	0.26	846	0.63	0.43	918	0.73
5		1600	0.75	944	0.54	0.91	1010	0.63	1.10	1094	0.75	—	—	—	—	—	—
5		1700	0.61	899	0.52	0.77	969	0.60	0.96	1052	0.72	1.12	1114	0.82	—	—	—
5		1800	0.48	855	0.49	0.63	927	0.58	0.82	1011	0.69	0.97	1074	0.79	—	—	—
5	YHC060E1,3,4**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
5	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
5	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
5		2200	—	—	—	0.07	759	0.47	0.25	845	0.58	0.39	916	0.68	0.57	987	0.79
5		2300	—	—	—	—	—	—	0.10	804	0.55	0.25	877	0.65	0.42	945	0.76
5		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 36. Multispeed direct drive evaporator fan performance 3 - 5 tons - high efficiency - high heat YHC036,048, 060E1,3,4

			External Static Pressure (Inches of Water) & Motor Power (Bhp) ^(a)															
			Standard Low						Standard High									
			Rated			Speed			Mid Speed			Speed			High Speed			
			Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5			
Tons	Unit Model	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	
3	YHC036E1,3,4**H Downflow	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	
3		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	
3		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	
3		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	
3		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	
3		Airflow	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
3		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	
3		1380	—	—	—	0.11	647	0.21	0.31	763	0.28	0.55	878	0.38	0.68	931	0.44	
3		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**H Horizontal	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	
3		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	
3		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	
3		Airflow	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
3		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	
3		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	
3		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	
3		1380	—	—	—	0.14	663	0.21	0.32	765	0.28	0.54	872	0.38	0.69	945	0.45	
3		1440	—	—	—	0.07	638	0.20	0.24	741	0.28	0.45	849	0.37	0.61	926	0.44	
4	YHC048E1,3,4**H Downflow	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	
4		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	
4		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	
4		Airflow	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
4		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	
4		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	
4		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	
4		1840	—	—	—	0.22	681	0.32	0.37	755	0.39	0.37	755	0.39	0.54	834	0.48	
4		1920	—	—	—	0.12	647	0.30	0.27	721	0.37	0.27	721	0.37	0.43	801	0.46	
4	YHC048E1,3,4**H Horizontal	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	
4		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	
4		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	
4		Airflow	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
4		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	
4		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	
4		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	
4		1840	—	—	—	0.07	661	0.31	0.23	750	0.39	0.23	750	0.39	0.40	836	0.48	
4		1920	—	—	—	—	—	—	0.13	717	0.37	0.13	717	0.37	0.29	803	0.46	
5	YHC060E1,3,4**H Downflow	1600	0.90	955	0.57	1.06	1022	0.66	1.25	1095	0.77	—	—	—	—	—	—	
5		1700	0.76	910	0.54	0.92	977	0.63	1.11	1052	0.74	1.28	1113	0.85	—	—	—	
5		1800	0.62	865	0.52	0.77	932	0.60	0.96	1009	0.71	1.13	1072	0.82	—	—	—	
5		Airflow	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
5		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	
5		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	
5		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	
5		2300	—	—	—	0.05	709	0.46	0.23	793	0.56	0.39	867	0.66	0.55	933	0.77	
5		2400	—	—	—	—	—	—	0.09	750	0.53	0.24	826	0.63	0.40	890	0.73	
5	YHC060E1,3,4**H Horizontal	1600	0.77	948	0.57	0.95	1016	0.66	1.10	1093	0.77	—	—	—	—	—	—	
5		1700	0.63	903	0.54	0.80	973	0.63	0.96	1052	0.74	—	—	—	—	—	—	
5		1800	0.48	859	0.51	0.66	930	0.60	0.81	1012	0.71	1.00	1084	0.83	—	—	—	
5		Airflow	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
5		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	
5		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	
5		2200	—	—	—	0.07	760	0.49	0.23	850	0.60	0.39	917	0.70	0.54	979	0.80	
5		2300	—	—	—	—	—	—	0.09	809	0.57	0.24	875	0.67	0.39	937	0.77	
5		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 37. Belt drive evaporator fan performance - 3 tons standard efficiency - TSC036E3,E4,EW downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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



Evaporator Fan Performance

Table 38. Belt drive evaporator fan performance - 3 tons standard efficiency - TSC036E3,E4,EW horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 39. 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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

(c) 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 - YSC036E3,E4,EW*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 41. Belt drive evaporator fan performance - 3 tons standard efficiency - YSC036E3,E4,EW*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive^(b)											
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^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

(c) 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*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 43. Belt drive evaporator fan performance - 3 tons standard efficiency - WSC036E3,E4,EW downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)									
960	—	—	572	0.14	639	0.19	702	0.23	762	0.28	816	0.34	865	0.39	907	0.44	948	0.49	986	0.54	
1080	—	—	608	0.18	672	0.23	731	0.27	785	0.33	840	0.38	890	0.44	937	0.50	979	0.56	1017	0.62	
1200	572	0.18	645	0.23	707	0.28	762	0.33	814	0.38	864	0.44	913	0.50	961	0.57	1005	0.63	1046	0.70	
1320	614	0.22	684	0.28	744	0.33	797	0.39	846	0.44	894	0.50	939	0.56	984	0.63	1028	0.70	1070	0.78	
1440	656	0.27	723	0.34	781	0.40	833	0.46	881	0.52	925	0.58	969	0.64	1011	0.71	1053	0.78	1094	0.86	

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	1022	0.59	1057	0.64	1092	0.69	1125	0.74	1157	0.79
1080	1053	0.67	1088	0.73	1121	0.79	1152	0.84	1184	0.90
1200	1084	0.77	1118	0.83	1152	0.89	1182	0.95	1213	1.01
1320	1110	0.85	1147	0.92	1182	1.00	1214	1.07	—	—
1440	1133	0.94	1170	1.01	1207	1.10	—	—	—	—
1-hp Standard Motor & Field Supplied High Static Drive ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

(c) 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 - WSC036E3,E4,EW horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
960	—	—	—	560	0.13	641	0.17	711	0.22	770	0.27	822	0.32	868	0.37	911	0.41	952	0.46	991	0.52
1080	—	—	—	589	0.16	665	0.21	735	0.26	796	0.31	850	0.37	899	0.42	942	0.48	983	0.53	1021	0.58
1200	551	0.15	—	622	0.19	691	0.24	758	0.30	820	0.36	875	0.42	925	0.48	971	0.54	1012	0.60	1052	0.66
1320	592	0.19	—	657	0.24	720	0.29	783	0.35	843	0.41	899	0.47	950	0.54	997	0.60	1041	0.67	1081	0.74
1440	634	0.24	—	695	0.29	753	0.34	810	0.40	867	0.46	922	0.53	974	0.60	1022	0.67	1066	0.75	1108	0.82

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	1028	0.57	1064	0.62	1099	0.67	1133	0.73	1165	0.78	—
1080	1057	0.64	1093	0.70	1127	0.75	1160	0.81	1192	0.87	—
1200	1087	0.72	1123	0.78	1156	0.84	1189	0.90	1221	0.97	—
1320	1118	0.80	1153	0.87	1187	0.94	1218	1.00	—	—	—
1440	1146	0.89	1182	0.97	1217	1.04	—	—	—	—	—
1-hp Standard Motor & Field Supplied High Static Drive ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

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

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 ^(c)											

Note:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

(c) 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)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)									
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 Low Static Drive ^(a)									

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)										
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 ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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)																					
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 & 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	rpm	bhp
1-hp Standard Motor & Drive ^(b)												
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 ^(c)												

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

(c) 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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)										

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)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)										

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)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

(c) 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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)									

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)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 51. Belt drive evaporator fan performance - 4 tons standard efficiency - WSC048E3,E4,EW downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 ^(c)											

Note:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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



Evaporator Fan Performance

Table 52. Belt drive evaporator fan performance - 4 tons standard efficiency - WSC048E3,E4,EW horizontal airflow

External Static Pressure (Inches of Water)																						
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)											
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 ^(c)										

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)										
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 ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 53. Belt drive evaporator fan performance - 5 tons standard efficiency - TSC060E3,E4,EW downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)										
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 105, p. 133](#).
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 114, p. 135](#) 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.

(b) Field Supplied Fan Sheave AK44x3/4" required. Field Supplied Belt may be necessary.



Evaporator Fan Performance

Table 54. Belt drive evaporator fan performance - 5 tons standard efficiency - TSC060E3,E4,EW horizontal airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)									
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 ^(b)										
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 105, p. 133](#).
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 114, p. 135](#) 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.

(b) Field Supplied Fan Sheave AK44x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 55. 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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 105, p. 133](#).
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 114, p. 135](#) 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.

(b) Field Supplied Fan Sheave AK44x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 56. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 105, p. 133](#).
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 114, p. 135](#) 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.

(b) Field Supplied Fan Sheave AK44x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 57. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 105, p. 133](#).
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 114, p. 135](#) 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.

(b) Field Supplied Fan Sheave AK44x3/4" required. Field Supplied Belt may be necessary.



Evaporator Fan Performance

Table 58. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)										
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 105, p. 133](#).
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 114, p. 135](#) 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.

(b) Field Supplied Fan Sheave AK44x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 59. Belt drive evaporator fan performance - 5 tons standard efficiency - WSC060E3,E4,EW downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)								
1600	—	—	—	—	623	0.26	681	0.31	734	0.36	783	0.41	831	0.46	878	0.52	923	0.58	965	0.64	
1800	—	—	594	0.27	656	0.32	712	0.38	763	0.43	810	0.49	855	0.54	899	0.60	941	0.67	983	0.73	
2000	571	0.28	633	0.34	690	0.40	744	0.46	794	0.52	840	0.58	883	0.64	924	0.71	964	0.77	1003	0.84	
2200	615	0.36	674	0.42	727	0.49	778	0.55	826	0.62	871	0.69	913	0.76	953	0.82	991	0.89	1030	0.96	
2400	660	0.45	715	0.52	766	0.59	814	0.66	859	0.74	903	0.81	945	0.88	984	0.96	1021	1.03	1057	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 ^(b)											
1600	1005	0.71	1045	0.78	1083	0.84	1120	0.91	1155	0.98	
1800	1023	0.80	1062	0.87	1098	0.94	1134	1.01	1170	1.09	
2000	1041	0.91	1079	0.98	1116	1.06	1152	1.13	1186	1.21	
2200	1065	1.03	1100	1.11	1135	1.18	1169	1.26	1203	1.34	
2400	1092	1.18	1125	1.26	1159	1.34	1191	1.41	1223	1.50	
1-hp Standard Motor & Field Supplied High Static Drive ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 60. Belt drive evaporator fan performance - 5 tons standard efficiency - WSC060E3,E4,EW horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
1600	—	—	585	0.23	659	0.29	724	0.35	787	0.42	846	0.49	901	0.56	950	0.64	995	0.71	1038	0.78	
1800	—	—	622	0.29	690	0.36	753	0.43	811	0.49	866	0.57	922	0.65	973	0.73	1020	0.81	1064	0.90	
2000	598	0.31	661	0.37	724	0.44	784	0.52	840	0.59	893	0.66	943	0.74	993	0.83	1041	0.92	1085	1.01	
2200	647	0.40	703	0.46	761	0.54	817	0.62	870	0.70	921	0.78	970	0.86	1016	0.95	1061	1.04	1106	1.13	
2400	696	0.50	746	0.57	799	0.65	853	0.74	903	0.82	952	0.91	998	1.00	1043	1.09	1086	1.18	1127	1.27	

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)											
1600	1078	0.86	1115	0.93	1150	1.01	1183	1.08	1214	1.16	—
1800	1105	0.98	1143	1.06	1180	1.15	1215	1.23	—	—	—
2000	1128	1.10	1169	1.20	1207	1.29	—	—	—	—	—
2200	1150	1.24	1190	1.34	—	—	—	—	—	—	—
2400	1170	1.38	1211	1.48	—	—	—	—	—	—	—
1-hp Standard Motor & Field Supplied High Static Drive ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 61. Belt drive evaporator fan performance - 6 tons standard efficiency - TSC072E3,4,W downflow airflow

External Static Pressure (Inches of Water)																						
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00			
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1-hp Standard Motor & 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	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 105, p. 133](#).
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 114, p. 135](#) 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 62. Belt drive evaporator fan performance - 6 tons standard efficiency - TSC072E3,4,W horizontal airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 105, p. 133](#).
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 114, p. 135](#) 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.

Evaporator Fan Performance

Table 63. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072E3,4,W*L,M low & medium heat downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 105, p. 133](#).
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 114, p. 135](#) 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 64. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072E3,4,W*L,M low & medium heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 105, p. 133](#).
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 114, p. 135](#) 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.

Evaporator Fan Performance

Table 65. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072E3,4,W*H high heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 105, p. 133](#).
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 114, p. 135](#) 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 66. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072E3,4,W*H high heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 105, p. 133](#).
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 114, p. 135](#) 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.

Evaporator Fan Performance

Table 67. Belt drive evaporator fan performance - 7½ tons standard efficiency - TSC092E3,4,W downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 Accessory Kit ^(a)																					
2400	—	—	—	487	0.32	536	0.40	583	0.50	627	0.61	669	0.72	708	0.83	743	0.95	776	1.08	808	1.21
2700	—	—	—	522	0.41	569	0.50	611	0.60	653	0.71	693	0.83	731	0.95	768	1.07	801	1.20	832	1.33
3000	—	—	—	559	0.51	604	0.61	643	0.71	682	0.83	719	0.95	755	1.08	791	1.21	824	1.35	856	1.48
3300	—	—	—	599	0.63	639	0.74	678	0.86	713	0.97	748	1.09	783	1.23	815	1.37	848	1.52	880	1.66
3600	601	0.68	—	640	0.79	675	0.89	713	1.02	748	1.14	780	1.26	811	1.40	844	1.55	874	1.70	904	1.86
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																3-hp Oversized Motor & Drive					
2400	839	1.34	868	1.48	898	1.61	926	1.75	953	1.89	980	2.04	1006	2.18	1032	2.34	1056	2.49	1080	2.64	
2700	862	1.48	891	1.62	918	1.77	946	1.92	971	2.07	998	2.23	1023	2.38	1049	2.54	1074	2.70	1097	2.86	
3000	886	1.63	915	1.78	942	1.93	968	2.09	994	2.25	1019	2.42	1044	2.59	1067	2.75	1092	2.93	1115	3.09	
3300	910	1.81	939	1.96	967	2.12	993	2.28	1019	2.45	1043	2.62	1066	2.79	1091	2.98	1113	3.15	1136	3.34	
3600	933	2.01	962	2.17	990	2.33	1016	2.49	1042	2.66	1067	2.84	1091	3.02	1114	3.21	1137	3.39	1158	3.58	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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 required.



Evaporator Fan Performance

Table 68. Belt drive evaporator fan performance - 7½ tons standard efficiency - TSC092E3,4,W horizontal airflow

External Static Pressure (Inches of Water)																						
	.10		.20		.30		.40		.50		.60		.70		.80		.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 Accessory Kit ^(a)																						
2400	502	0.36	552	0.43	603	0.52	653	0.63	707	0.75	754	0.88	792	0.99	825	1.09	857	1.19	886	1.30		
2700	554	0.49	595	0.56	644	0.66	686	0.77	732	0.89	780	1.03	824	1.17	863	1.30	895	1.42	925	1.54		
3000	605	0.65	644	0.73	684	0.82	726	0.94	765	1.06	806	1.20	849	1.35	891	1.51	929	1.66	962	1.80		
3300	658	0.84	694	0.93	728	1.02	767	1.15	805	1.28	840	1.40	876	1.55	916	1.71	955	1.89	991	2.06		
3600	711	1.07	746	1.18	776	1.27	809	1.38	846	1.52	880	1.66	912	1.80	943	1.95	980	2.13	1016	2.30		
													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																					
2400	913	1.40	941	1.51	966	1.61	991	1.71	1017	1.82	1040	1.92	1064	2.04	1087	2.14	1110	2.26	1132	2.37	
2700	954	1.66	981	1.77	1006	1.89	1030	2.00	1054	2.12	1077	2.24	1100	2.36	1121	2.47	1144	2.60	1164	2.71	
3000	992	1.94	1019	2.07	1045	2.20	1069	2.32	1094	2.46	1116	2.58	1138	2.71	1160	2.84	1181	2.97	1202	3.10	
3300	1025	2.22	1055	2.38	1082	2.53	1108	2.67	1132	2.82	1156	2.96	1178	3.11	1200	3.25	1221	3.39	—	—	
3600	1052	2.50	1085	2.69	1117	2.88	1144	3.05	1170	3.21	1193	3.37	—	—	—	—	—	—	—	—	
3-hp Oversized Motor & Drive																					

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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.

Evaporator Fan Performance

Table 69. Belt drive evaporator fan performance - 7½ tons standard efficiency - with gas heat YSC092E3,4,W*L,M low & medium heat downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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)																					
2400	—	—	—	—	—	—	613	0.58	656	0.68	696	0.79	732	0.91	765	1.03	798	1.16	829	1.30	
2700	—	—	—	—	605	0.58	647	0.69	687	0.81	726	0.93	762	1.05	796	1.18	828	1.32	857	1.45	
3000	—	—	606	0.62	645	0.72	684	0.83	721	0.96	758	1.09	792	1.22	826	1.36	858	1.49	888	1.64	
3300	609	0.66	650	0.77	688	0.89	723	1.00	758	1.13	792	1.27	825	1.41	857	1.56	888	1.70	918	1.85	
3600	658	0.84	695	0.96	731	1.08	764	1.20	796	1.33	828	1.47	859	1.63	890	1.79	920	1.94	949	2.10	
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	
2-hp Standard Motor & Drive																					
2400	858	1.43	888	1.57	917	1.71	945	1.85	971	1.99	998	2.14	1023	2.28	1048	2.44	1072	2.59	1095	2.75	
2700	886	1.60	915	1.75	942	1.90	969	2.05	995	2.21	1020	2.36	1045	2.51	1069	2.67	1093	2.83	1117	3.00	
3000	916	1.79	944	1.94	970	2.10	995	2.26	1020	2.43	1044	2.59	1069	2.76	1092	2.93	1116	3.10	1139	3.27	
3300	947	2.01	974	2.16	1000	2.33	1026	2.50	1050	2.67	1073	2.84	1097	3.02	1119	3.20	1141	3.38	—	—	
3600	976	2.25	1004	2.42	1030	2.58	1056	2.76	1080	2.94	1103	3.12	1126	3.30	—	—	—	—	—	—	
3-hp Oversized Motor & Drive																					

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.

Evaporator Fan Performance

Table 70. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC092E3,4,W*L,M low & medium heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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)																					
2400	—	—	599	0.52	650	0.62	703	0.75	751	0.87	789	0.98	823	1.08	855	1.19	885	1.29	912	1.39	
2700	604	0.58	651	0.68	694	0.79	741	0.91	789	1.06	832	1.19	868	1.32	900	1.44	931	1.56	959	1.68	
3000	661	0.77	705	0.88	744	1.00	783	1.12	826	1.26	869	1.42	909	1.58	945	1.73	976	1.86	1004	1.99	
3300	719	1.00	758	1.11	797	1.25	832	1.37	867	1.51	907	1.68	946	1.85	983	2.02	1017	2.18	1048	2.34	
3600	779	1.28	813	1.39	850	1.54	883	1.68	915	1.82	948	1.97	984	2.15	1020	2.33	1055	2.52	1088	2.71	
2-hp Standard Motor & Drive														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	
2-hp Standard Motor & Drive																					
2400	939	1.50	965	1.60	990	1.71	1014	1.81	1039	1.92	1063	2.03	1085	2.14	1108	2.25	1131	2.36	1154	2.49	
2700	985	1.79	1010	1.91	1034	2.03	1058	2.14	1081	2.26	1104	2.38	1126	2.50	1148	2.62	1169	2.74	1190	2.86	
3000	1031	2.12	1056	2.25	1081	2.39	1104	2.51	1127	2.65	1148	2.77	1169	2.90	1190	3.03	1210	3.16	1231	3.30	
3300	1077	2.50	1102	2.64	1127	2.78	1151	2.93	1174	3.07	1194	3.21	1216	3.36	—	—	—	—	—	—	
3600	1120	2.89	1146	3.06	1172	3.22	1195	3.38	—	—	—	—	—	—	—	—	—	—	—	—	
3-hp Oversized Motor & Drive																					

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.

Evaporator Fan Performance

Table 71. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC092E3,4,W*H high heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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)																					
2400	—	—	—	—	—	—	623	0.60	664	0.70	703	0.82	739	0.93	773	1.06	804	1.19	835	1.32	
2700	—	—	—	—	617	0.61	658	0.73	698	0.84	736	0.96	771	1.08	804	1.21	835	1.35	865	1.49	
3000	—	—	619	0.65	658	0.75	696	0.87	733	1.00	770	1.13	804	1.26	837	1.40	868	1.54	897	1.69	
3300	625	0.70	666	0.82	702	0.93	737	1.05	771	1.19	805	1.33	838	1.47	870	1.62	900	1.76	929	1.91	
3600	675	0.89	713	1.02	747	1.14	779	1.26	811	1.40	843	1.55	874	1.70	904	1.86	934	2.02	962	2.17	
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																					
2400	864	1.46	895	1.60	923	1.74	951	1.88	977	2.02	1003	2.17	1028	2.32	1053	2.47	1078	2.63	1100	2.78	
2700	894	1.64	921	1.79	948	1.94	974	2.09	1001	2.24	1027	2.40	1052	2.56	1076	2.72	1100	2.88	1124	3.05	
3000	925	1.83	952	1.99	978	2.15	1004	2.32	1029	2.48	1052	2.65	1076	2.82	1100	2.99	1123	3.15	1146	3.33	
3300	958	2.06	984	2.22	1010	2.39	1035	2.56	1059	2.73	1082	2.91	1105	3.09	1128	3.28	—	—	—	—	
3600	990	2.33	1017	2.50	1043	2.66	1067	2.84	1091	3.02	1114	3.20	1137	3.39	—	—	—	—	—	—	
3-hp Oversized Motor & Drive																					

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.



Evaporator Fan Performance

Table 72. Belt drive evaporator fan performance - 7½ tons - standard efficiency with gas heat - YSC092E3,4,W*H high heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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)																					
2400	—	—		613	0.54	666	0.66	718	0.78	762	0.90	799	1.01	833	1.11	864	1.22	893	1.32	920	1.42
2700	621	0.61		667	0.72	710	0.83	759	0.97	804	1.10	846	1.24	880	1.36	911	1.48	941	1.60	968	1.72
3000	680	0.81		723	0.93	761	1.05	802	1.18	845	1.33	888	1.49	925	1.64	959	1.79	988	1.92	1016	2.05
3300	740	1.06		780	1.19	816	1.31	850	1.45	889	1.60	928	1.77	966	1.94	1002	2.11	1036	2.28	1063	2.42
3600	800	1.35		837	1.49	872	1.63	904	1.77	935	1.91	971	2.08	1007	2.27	1043	2.45	1077	2.64	1108	2.83
2-hp Standard Motor & Drive																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
2-hp Standard Motor & Drive														3-hp Oversized Motor & Drive							
2400	946	1.53		972	1.64	997	1.74	1022	1.84	1045	1.95	1069	2.06	1092	2.17	1115	2.28	1137	2.40	1160	2.52
2700	994	1.84		1019	1.95	1043	2.07	1066	2.18	1089	2.30	1112	2.42	1134	2.54	1155	2.66	1177	2.78	1197	2.90
3000	1043	2.18		1067	2.31	1091	2.44	1114	2.57	1137	2.70	1158	2.83	1178	2.96	1200	3.09	1220	3.22	1240	3.35
3300	1090	2.57		1116	2.72	1140	2.86	1162	3.00	1185	3.15	1206	3.29	1227	3.43	—	—	—	—	—	—
3600	137	3.00		1163	3.17	1188	3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.

Evaporator Fan Performance

Table 73. Belt drive evaporator fan performance - 8½ tons standard efficiency - TSC102E3,4,W downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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	—	—	—	539	0.44	584	0.53	626	0.64	668	0.76	708	0.88	746	1.00	781	1.12	814	1.26	845	1.40
3060	—	—	—	583	0.58	626	0.68	665	0.78	703	0.90	740	1.04	775	1.17	810	1.30	843	1.44	875	1.58
3400	—	—	—	628	0.72	669	0.84	706	0.96	741	1.08	775	1.21	809	1.36	841	1.51	873	1.65	904	1.81
3740	641	0.81	—	677	0.92	713	1.04	749	1.17	781	1.30	813	1.43	845	1.58	875	1.73	905	1.89	935	2.06
4080	693	1.03	—	726	1.15	758	1.27	792	1.41	824	1.56	854	1.69	883	1.83	912	1.99	940	2.16	968	2.33
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															3-hp Oversized Motor & Drive						
2720	874	1.54	904	1.69	930	1.84	958	2.00	983	2.14	1010	2.30	1035	2.46	1060	2.62	1084	2.78	1109	2.95	
3060	905	1.73	933	1.89	960	2.05	986	2.20	1010	2.37	1035	2.54	1059	2.71	1083	2.89	1107	3.06	1131	3.24	
3400	933	1.96	962	2.11	990	2.27	1016	2.44	1041	2.62	1065	2.79	1089	2.97	1112	3.15	1134	3.34	—	—	
3740	964	2.22	992	2.39	1018	2.55	1045	2.72	1071	2.90	1095	3.08	1118	3.26	1141	3.45	—	—	—	—	
4080	995	2.51	1023	2.69	1048	2.86	1075	3.05	1100	3.23	1124	3.41	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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.



Evaporator Fan Performance

Table 74. Belt drive evaporator fan performance - 8½ tons standard efficiency - TSC102E3,4,W horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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	570	0.52	612	0.60	660	0.71	703	0.81	751	0.95	798	1.09	841	1.23	877	1.36	909	1.48	939	1.60	
3060	631	0.72	667	0.80	709	0.91	750	1.03	788	1.15	830	1.29	873	1.45	914	1.62	951	1.77	983	1.92	
3400	692	0.96	726	1.05	760	1.15	800	1.29	836	1.42	870	1.56	907	1.71	945	1.88	984	2.06	1020	2.24	
3740	754	1.26	786	1.36	815	1.46	850	1.59	886	1.74	918	1.88	949	2.03	980	2.19	1015	2.37	1052	2.57	
4080	817	1.61	848	1.72	874	1.83	903	1.95	935	2.10	968	2.26	998	2.42	1026	2.58	1054	2.75	1085	2.94	
2-hp Standard Motor & Drive													3-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											3-hp Oversized Motor & Drive										
2720	967	1.72	994	1.84	1018	1.96	1042	2.07	1066	2.19	1089	2.31	1112	2.43	1134	2.55	1155	2.67	1176	2.79	
3080	1012	2.06	1039	2.19	1065	2.32	1090	2.46	1113	2.59	1136	2.73	1158	2.86	1179	2.99	1199	3.12	1220	3.26	
3400	1052	2.41	1083	2.58	1109	2.73	1135	2.88	1159	3.04	1183	3.19	1204	3.33	—	—	—	—	—	—	
3740	1086	2.77	1119	2.96	1149	3.15	1178	3.34	—	—	—	—	—	—	—	—	—	—	—	—	
4080	1117	3.14	1151	3.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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.

Evaporator Fan Performance

Table 75. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102E3,4,W*L low heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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	—	—	—	—	621	0.62	662	0.74	703	0.86	741	0.98	777	1.11	810	1.24	841	1.38	871	1.52	
3060	587	0.58	630	0.69	668	0.79	707	0.92	743	1.05	779	1.18	814	1.32	846	1.45	878	1.60	907	1.75	
3400	643	0.77	683	0.89	718	1.00	753	1.13	787	1.26	820	1.41	853	1.56	884	1.71	915	1.86	944	2.02	
3740	699	0.99	736	1.12	770	1.25	802	1.38	833	1.52	864	1.67	894	1.83	925	2.00	953	2.16	982	2.33	
4080	757	1.26	790	1.40	823	1.55	853	1.69	882	1.83	910	1.98	938	2.15	967	2.32	994	2.50	1021	2.68	
2-hp Standard Motor & Drive															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	
2-hp Standard Motor & Drive											3-hp Oversized Motor & Drive										
2720	900	1.67	927	1.82	954	1.97	980	2.12	1006	2.28	1032	2.44	1057	2.60	1082	2.76	1105	2.92	1129	3.09	
3060	936	1.90	962	2.06	989	2.22	1014	2.39	1039	2.56	1062	2.73	1085	2.90	1109	3.07	1133	3.25	1155	3.43	
3400	973	2.17	999	2.34	1025	2.51	1050	2.68	1074	2.86	1097	3.04	1120	3.22	1142	3.41	—	—	—	—	
3740	1010	2.50	1036	2.66	1062	2.84	1087	3.01	1110	3.19	1134	3.39	—	—	—	—	—	—	—	—	
4080	1047	2.86	1073	3.04	1098	3.22	1123	3.40	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.



Evaporator Fan Performance

Table 76. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102E3,4,W*L low heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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)												2-hp Standard Motor & Drive									
2720	622	0.62	669	0.73	711	0.84	760	0.97	807	1.12	849	1.26	884	1.38	915	1.50	944	1.62	972	1.74	
3060	688	0.85	732	0.97	770	1.09	809	1.22	853	1.38	895	1.54	934	1.70	968	1.85	998	1.99	1026	2.13	
3400	756	1.14	795	1.27	832	1.40	866	1.54	901	1.69	941	1.86	979	2.04	1015	2.22	1049	2.40	1079	2.56	
3740	824	1.49	859	1.62	895	1.78	926	1.92	957	2.07	990	2.24	1025	2.42	1061	2.62	1095	2.82	1127	3.02	
4080	893	1.90	925	2.05	958	2.21	988	2.37	1017	2.53	1046	2.70	1075	2.88	1108	3.08	1140	3.29	—	—	
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	
2-hp Standard Motor & Drive									3-hp Oversized Motor & Drive												
2720	998	1.86	1024	1.98	1047	2.10	1071	2.22	1094	2.33	1115	2.45	1138	2.57	1159	2.69	1181	2.82	1201	2.94	
3060	1053	2.26	1078	2.39	1102	2.53	1125	2.66	1146	2.79	1169	2.93	1190	3.06	1210	3.19	1230	3.32	1250	3.45	
3400	1106	2.71	1131	2.86	1156	3.02	1179	3.16	1201	3.31	1223	3.45	—	—	—	—	—	—	—	—	
3740	1158	3.21	1185	3.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4080	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.

Evaporator Fan Performance

Table 77. Belt drive evaporator fan performance - 8½ tons with gas heat - YSC102E3,4,W*M medium heat downflow airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.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	—	—	—	—	623	0.63	664	0.75	704	0.87	742	0.99	778	1.11	811	1.24	842	1.38	872	1.53
3060	589	0.58	632	0.69	670	0.80	709	0.92	745	1.06	781	1.19	815	1.32	848	1.46	880	1.60	909	1.75
3400	645	0.77	685	0.89	721	1.01	755	1.13	789	1.27	822	1.42	854	1.57	886	1.72	916	1.87	945	2.02
3740	702	1.00	739	1.14	772	1.26	804	1.39	836	1.53	867	1.69	897	1.85	926	2.01	956	2.18	984	2.34
4080	759	1.27	793	1.42	826	1.56	856	1.70	884	1.84	913	2.00	941	2.16	969	2.34	996	2.52	1024	2.70
	2-hp Standard Motor & Drive														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	
2-hp Standard Motor & Drive											3-hp Oversized Motor & Drive										
2720	900	1.67	928	1.82	955	1.98	982	2.14	1008	2.29	1033	2.45	1057	2.60	1083	2.77	1107	2.94	1129	3.10	
3060	936	1.91	964	2.07	989	2.23	1015	2.39	1039	2.56	1063	2.73	1088	2.92	1111	3.09	1134	3.26	1157	3.44	
3400	974	2.18	1001	2.35	1027	2.52	1051	2.69	1075	2.87	1098	3.05	1121	3.23	1144	3.42	—	—	—	—	
3740	1011	2.50	1038	2.68	1064	2.85	1089	3.03	1113	3.22	1135	3.40	—	—	—	—	—	—	—	—	
4080	1050	2.87	1076	3.05	1101	3.24	1126	3.43	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.



Evaporator Fan Performance

Table 78. Belt drive evaporator fan performance - 8½ tons with gas heat - YSC102E3,4,W*M medium heat horizontal airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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	625	0.62	671	0.73	714	0.84	763	0.98	809	1.13	851	1.27	885	1.39	917	1.51	946	1.63	974	1.75	
3060	691	0.86	734	0.98	772	1.10	812	1.23	856	1.39	897	1.55	936	1.71	970	1.86	1001	2.00	1028	2.14	
3400	759	1.15	798	1.28	835	1.41	868	1.55	904	1.70	943	1.87	982	2.05	1019	2.23	1052	2.41	1082	2.57	
3740	827	1.50	863	1.64	898	1.79	930	1.94	960	2.09	994	2.26	1029	2.44	1064	2.64	1098	2.84	1130	3.03	
4080	897	1.92	929	2.07	962	2.23	992	2.39	1021	2.55	1049	2.72	1079	2.90	1112	3.10	1144	3.31	—	—	
2-hp Standard Motor & Drive							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	
2-hp Standard Motor & Drive									3-hp Oversized Motor & Drive												
2720	1000	1.87	1025	1.99	1048	2.10	1072	2.22	1095	2.34	1117	2.46	1139	2.58	1161	2.70	1182	2.82	1203	2.95	
3060	1054	2.27	1080	2.41	1103	2.53	1126	2.67	1149	2.80	1170	2.93	1192	3.07	1211	3.20	1231	3.33	—	—	
3400	1108	2.73	1134	2.88	1158	3.03	1181	3.17	1204	3.33	—	—	—	—	—	—	—	—	—	—	
3740	1160	3.23	1187	3.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4080	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

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												
2720	1000	1.87	1025	1.99	1048	2.10	1072	2.22	1095	2.34	1117	2.46	1139	2.58	1161	2.70	1182	2.82	1203	2.95	
3060	1054	2.27	1080	2.41	1103	2.53	1126	2.67	1149	2.80	1170	2.93	1192	3.07	1211	3.20	1231	3.33	—	—	
3400	1108	2.73	1134	2.88	1158	3.03	1181	3.17	1204	3.33	—	—	—	—	—	—	—	—	—	—	
3740	1160	3.23	1187	3.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4080	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.

Evaporator Fan Performance

Table 79. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102E3,4,W*H high heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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	—	—	590	0.55	633	0.66	674	0.77	713	0.89	750	1.01	786	1.14	818	1.28	850	1.42	879	1.56	
3060	602	0.62	643	0.72	682	0.83	719	0.96	756	1.09	791	1.23	825	1.36	857	1.50	889	1.65	917	1.80	
3400	660	0.82	698	0.94	733	1.05	767	1.18	801	1.32	834	1.48	866	1.62	897	1.77	927	1.92	956	2.08	
3740	718	1.06	754	1.19	787	1.32	818	1.45	849	1.60	880	1.76	910	1.92	939	2.08	968	2.24	996	2.41	
4080	777	1.35	811	1.49	841	1.63	870	1.77	899	1.92	928	2.08	956	2.26	983	2.43	1011	2.61	1037	2.79	
2-hp Standard Motor & Drive															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	
2-hp Standard Motor & Drive									3-hp Oversized Motor & Drive												
2720	907	1.71	934	1.86	960	2.01	987	2.17	1014	2.33	1039	2.48	1063	2.64	1088	2.81	1112	2.97	1134	3.13	
3060	945	1.95	971	2.11	997	2.28	1022	2.45	1047	2.62	1070	2.79	1094	2.96	1117	3.14	1141	3.31	—	—	
3400	985	2.24	1010	2.40	1036	2.58	1060	2.76	1084	2.93	1106	3.11	1130	3.31	—	—	—	—	—	—	
3740	1023	2.58	1049	2.75	1075	2.93	1099	3.11	1122	3.29	—	—	—	—	—	—	—	—	—	—	
4080	1063	2.96	1089	3.15	1114	3.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.



Evaporator Fan Performance

Table 80. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102E3,4,W*H high heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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)											2-hp Standard Motor & Drive										
2720	640	0.66	684	0.77	729	0.89	778	1.03	823	1.17	863	1.31	896	1.43	926	1.55	955	1.67	982	1.79	
3060	709	0.91	750	1.03	788	1.15	829	1.29	872	1.45	913	1.61	950	1.77	983	1.92	1011	2.05	1038	2.19	
3400	778	1.21	817	1.35	851	1.48	885	1.62	924	1.78	963	1.96	1000	2.14	1035	2.30	1067	2.49	1095	2.65	
3740	848	1.58	885	1.73	917	1.88	948	2.03	979	2.18	1014	2.36	1050	2.56	1084	2.76	1118	2.96	1148	3.15	
4080	919	2.02	952	2.18	984	2.35	1012	2.50	1041	2.67	1070	2.84	1102	3.04	1135	3.25	—	—	—	—	
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	
2-hp Standard Motor & Drive									3-hp Oversized Motor & Drive												
2720	1007	1.90	1032	2.02	1056	2.14	1079	2.26	1101	2.38	1124	2.50	1146	2.62	1167	2.74	1189	2.86	1209	2.98	
3060	1064	2.32	1090	2.46	1113	2.59	1135	2.72	1157	2.85	1178	2.98	1199	3.12	1220	3.26	1240	3.39	—	—	
3400	1121	2.80	1146	2.95	1170	3.10	1193	3.25	1215	3.40	—	—	—	—	—	—	—	—	—	—	
3740	1177	3.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4080	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) 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) Field Supplied Fan Sheave AK79 and Belt AX38 required.

Evaporator Fan Performance

Table 81. Belt drive evaporator fan performance - 10 tons standard efficiency - TSC120E3,4,W downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
3-hp Standard Motor & Low Static Drive Accessory Kit ^(a)																					
3200	576	0.57	618	0.67	659	0.79	697	0.90	734	1.03	770	1.17	804	1.31	839	1.45	871	1.60	901	1.74	
3600	638	0.78	675	0.89	714	1.02	749	1.14	782	1.27	815	1.41	847	1.57	879	1.73	909	1.89	939	2.04	
4000	701	1.04	734	1.16	768	1.30	803	1.44	834	1.58	863	1.72	894	1.87	923	2.04	952	2.21	979	2.39	
4400	764	1.36	795	1.49	825	1.63	857	1.79	888	1.95	916	2.10	943	2.25	970	2.41	997	2.59	1024	2.78	
4800	828	1.74	857	1.88	884	2.02	913	2.18	942	2.36	970	2.53	996	2.70	1021	2.86	1045	3.03	1070	3.22	
3-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	
3-hp Oversized Motor & Drive																					
3200	931	1.89	959	2.06	986	2.22	1012	2.39	1037	2.56	1061	2.74	1084	2.91	1108	3.09	1131	3.28	1153	3.46	
3600	969	2.21	997	2.37	1024	2.54	1050	2.72	1074	2.89	1098	3.08	1122	3.27	1145	3.46	1166	3.65	1188	3.85	
4000	1007	2.57	1034	2.74	1062	2.93	1087	3.11	1112	3.29	1136	3.47	1159	3.66	1182	3.86	1204	4.07	1226	4.28	
4400	1050	2.97	1075	3.17	1101	3.36	1126	3.55	1150	3.75	1173	3.94	1198	4.15	1219	4.34	1241	4.54	1264	4.77	
4800	1095	3.42	1119	3.62	1143	3.83	1166	4.05	1189	4.26	1212	4.47	1235	4.68	1258	4.90	1280	5.12	1300	5.32	
5-hp Oversized Motor & Drive																					

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) to determine additional static pressure drop due to other options/accessories.
4. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp + .475. 5-hp Fan Motor Heat (MBh) = 2.950 x Fan bhp + .470.
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) BAYLSDR010A required.



Evaporator Fan Performance

Table 82. Belt drive evaporator fan performance - 10 tons standard efficiency - TSC120E3,4,W horizontal airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3-hp Standard Motor & Low Static Drive Accessory Kit^(a)																				
3200	671	0.85	706	0.93	748	1.06	787	1.19	824	1.32	864	1.47	906	1.64	946	1.81	983	1.97	1015	2.13
3600	746	1.18	777	1.27	811	1.39	849	1.54	883	1.68	916	1.82	950	1.98	987	2.16	1024	2.35	1060	2.55
4000	822	1.59	850	1.70	879	1.81	912	1.95	946	2.12	977	2.28	1006	2.43	1035	2.60	1067	2.79	1101	2.99
4400	898	2.09	925	2.21	950	2.32	977	2.46	1008	2.63	1039	2.81	1067	2.98	1094	3.16	1121	3.33	1147	3.52
4800	974	2.69	1000	2.83	1023	2.95	1046	3.07	1072	3.23	1101	3.42	1130	3.62	1156	3.81	1181	4.00	1206	4.19
3-hp Standard Motor & Drive															5-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 Standard Motor & Drive																				
3200	1044	2.28	1072	2.42	1097	2.57	1122	2.71	1145	2.84	1168	2.99	1189	3.12	1210	3.27	1231	3.41	1250	3.54
3600	1093	2.74	1124	2.92	1151	3.09	1176	3.25	1201	3.42	1224	3.58	1246	3.74	1268	3.90	1289	4.06	1308	4.20
4000	1135	3.21	1167	3.42	1198	3.63	1227	3.84	1254	4.05	1278	4.23	1301	4.41	1323	4.60	1344	4.77	1365	4.95
4400	1177	3.73	1207	3.96	1239	4.19	1268	4.42	1297	4.67	1324	4.90	1351	5.12	1376	5.35	1398	5.56	1420	5.75
4800	1229	4.39	1254	4.59	1282	4.83	1310	5.07	1338	5.32	1365	5.58	—	—	—	—	—	—	—	—
5-hp Oversized Motor & Drive																				

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) to determine additional static pressure drop due to other options/accessories.
4. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp + .475. 5-hp Fan Motor Heat (MBh) = 2.950 x Fan bhp + .470.
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) BAYLSDR010A required.

Evaporator Fan Performance

Table 83. Belt drive evaporator fan performance - 10 tons standard efficiency with gas heat - YSC120E3,4,W*L,M low & medium heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
3-hp Standard Motor & Field Supplied Low Static Drive ^(a)																					
3200	—	—	—	—	—	—	743	1.06	779	1.20	814	1.35	847	1.49	879	1.63	910	1.78	938	1.93	
3600	—	—	735	1.10	768	1.22	802	1.36	834	1.50	866	1.66	897	1.82	927	1.98	957	2.14	985	2.30	
4000	767	1.29	802	1.44	833	1.58	863	1.71	892	1.87	922	2.04	951	2.21	979	2.39	1006	2.56	1034	2.74	
4400	837	1.69	869	1.85	899	2.00	926	2.15	953	2.31	980	2.48	1007	2.66	1033	2.85	1059	3.04	1085	3.24	
4800	908	2.16	937	2.33	965	2.50	991	2.67	1017	2.83	1041	3.00	1066	3.19	1090	3.38	1115	3.59	1139	3.80	
3-hp Standard Motor & Drive																5-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 Standard Motor & Drive																				
3200	966	2.10	992	2.26	1018	2.43	1042	2.60	1066	2.78	1091	2.96	1114	3.15	1136	3.33	1159	3.51	1182	3.70
3600	1013	2.47	1039	2.64	1065	2.82	1089	3.00	1113	3.19	1135	3.38	1157	3.56	1179	3.76	1201	3.97	1221	4.16
4000	1060	2.92	1086	3.10	1111	3.28	1135	3.47	1159	3.66	1182	3.86	1203	4.05	1224	4.26	1246	4.47	1266	4.68
4400	1110	3.43	1134	3.62	1159	3.82	1183	4.02	1205	4.22	1229	4.43	1251	4.64	1272	4.84	1292	5.05	1313	5.27
4800	1162	4.01	1185	4.22	1209	4.44	1231	4.64	1253	4.86	1276	5.07	1298	5.30	1319	5.51	1338	5.73	—	—
5-hp Oversized Motor & Drive																				

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) to determine additional static pressure drop due to other options/accessories.
4. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp+.475. 5-hp Fan Motor Heat (MBh) = 2.950 x Fan bhp+.470.
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 Motor Sheave 1VM50 x 7/8 inch, Fan Sheave AK89, and Belt AX40 required.



Evaporator Fan Performance

Table 84. Belt drive evaporator fan performance - 10 tons standard efficiency with gas heat - YSC120E3,4,W*L,M low & medium heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
3-hp Standard Motor & Field Supplied Low Static Drive ^(a)												3-hp Standard Motor & Drive									
3200	—	—	777	1.15	814	1.28	853	1.42	895	1.59	936	1.76	973	1.93	1008	2.09	1037	2.24	1064	2.38	
3600	819	1.42	857	1.57	890	1.71	922	1.85	957	2.02	994	2.20	1032	2.39	1067	2.58	1099	2.77	1131	2.96	
4000	902	1.91	936	2.07	968	2.23	998	2.39	1027	2.55	1058	2.73	1091	2.93	1124	3.14	1158	3.36	1189	3.57	
4400	986	2.50	1016	2.68	1047	2.86	1075	3.03	1101	3.20	1128	3.39	1155	3.58	1186	3.80	1217	4.03	1246	4.25	
4800	1070	3.22	1098	3.40	1127	3.60	1153	3.79	1178	3.98	1203	4.17	1227	4.37	1251	4.57	1279	4.80	1307	5.05	
5-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 Standard Motor & Drive													5-hp Oversized Motor & Drive								
3200	1090	2.53	1115	2.67	1139	2.81	1161	2.95	1183	3.09	1205	3.23	1225	3.37	1246	3.51	1265	3.65	1284	3.78	
3600	1157	3.13	1181	3.29	1205	3.45	1228	3.61	1250	3.77	1272	3.93	1293	4.09	1312	4.24	1331	4.40	1351	4.56	
4000	1218	3.78	1246	3.99	1271	4.18	1294	4.36	1317	4.55	1338	4.72	1360	4.91	1379	5.07	1398	5.25	1418	5.43	
4400	1276	4.49	1304	4.73	1333	4.97	1359	5.20	1383	5.42	1405	5.62	—	—	—	—	—	—	—	—	
4800	1336	5.30	1363	5.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) to determine additional static pressure drop due to other options/accessories.
4. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp+.475. 5-hp Fan Motor Heat (MBh) = 2.950 x Fan bhp+.470.
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 Motor Sheave 1VM50 x 7/8 inch, Fan Sheave AK89, and Belt AX40 required.

Evaporator Fan Performance

Table 85. Belt drive evaporator fan performance - 10 tons with standard efficiency gas heat - YSC120E3,4,W*H high heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	
3-hp Standard Motor & Field Supplied Low Static Drive ^(a)																					
3200	—	—	—	—	739	1.05	774	1.19	809	1.33	843	1.47	874	1.61	905	1.76	935	1.92	963	2.08	
3600	738	1.11	772	1.23	805	1.37	838	1.52	869	1.68	900	1.84	930	2.00	960	2.16	988	2.32	1016	2.49	
4000	813	1.49	844	1.63	873	1.77	903	1.93	932	2.10	961	2.27	989	2.45	1017	2.63	1043	2.80	1070	2.98	
4400	889	1.95	917	2.10	944	2.25	971	2.42	998	2.59	1024	2.78	1050	2.97	1076	3.17	1101	3.37	1126	3.56	
4800	964	2.50	991	2.66	1016	2.83	1040	3.00	1065	3.18	1090	3.38	1114	3.58	1138	3.79	1161	4.00	1184	4.22	
3-hp Standard Motor & Drive												5-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 Standard Motor & Drive															5-hp Oversized Motor & Drive						
3200	989	2.24	1015	2.41	1039	2.58	1064	2.76	1087	2.93	1111	3.12	1133	3.30	1156	3.48	1179	3.68	1200	3.85	
3600	1042	2.66	1067	2.84	1091	3.02	1115	3.21	1138	3.40	1160	3.59	1181	3.78	1203	3.98	1224	4.19	1244	4.39	
4000	1095	3.17	1120	3.35	1145	3.54	1167	3.73	1190	3.93	1212	4.14	1233	4.35	1253	4.55	1273	4.76	1293	4.97	
4400	1150	3.75	1174	3.95	1197	4.15	1221	4.36	1243	4.56	1265	4.77	1285	4.97	1306	5.20	1326	5.42	1345	5.65	
4800	1208	4.42	1231	4.64	1253	4.86	1275	5.07	1297	5.29	1317	5.50	1338	5.72	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) to determine additional static pressure drop due to other options/accessories.
4. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp+.475. 5-hp Fan Motor Heat (MBh) = 2.950 x Fan bhp+.470.
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 Motor Sheave 1VM50 x 7/8 inch, Fan Sheave AK89, and Belt AX40 required.



Evaporator Fan Performance

Table 86. Belt drive evaporator fan performance - 10 tons standard efficiency with gas heat - YSC120E3,4,W*H high heat horizontal airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	3-hp Standard Motor & Field Supplied Low Static Drive ^(a)										3-hp Standard Motor & Drive									
3200	785	1.18	821	1.31	861	1.46	903	1.62	944	1.80	981	1.96	1014	2.12	1043	2.27	1070	2.41	1095	2.55
3600	874	1.64	907	1.78	939	1.93	977	2.11	1014	2.30	1050	2.49	1084	2.69	1115	2.87	1144	3.05	1169	3.21
4000	964	2.21	994	2.37	1023	2.53	1053	2.71	1087	2.91	1121	3.12	1154	3.33	1185	3.55	1215	3.76	1242	3.96
4400	1055	2.91	1082	3.08	1109	3.25	1135	3.43	1164	3.64	1194	3.86	1225	4.09	1255	4.32	1284	4.56	1312	4.79
4800	1146	3.74	1171	3.92	1196	4.11	1220	4.31	1244	4.51	1271	4.73	1298	4.97	1327	5.22	1354	5.47	1382	5.74
5-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 Standard Motor & Drive										5-hp Oversized Motor & Drive									
3200	1120	2.70	1143	2.84	1166	2.98	1188	3.12	1208	3.25	1229	3.39	1249	3.53	1269	3.67	1289	3.82	1308	3.96
3600	1194	3.37	1217	3.53	1240	3.69	1262	3.85	1282	4.01	1303	4.17	1322	4.32	1341	4.48	1361	4.64	1378	4.79
4000	1269	4.16	1292	4.34	1314	4.52	1335	4.70	1356	4.88	1377	5.06	1397	5.24	1415	5.41	—	—	—	—
4400	1339	5.02	1365	5.25	1388	5.47	1410	5.67	—	—	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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 Standard Motor & Drive											5-hp Oversized Motor & Drive										
3200	1120	2.70	1143	2.84	1166	2.98	1188	3.12	1208	3.25	1229	3.39	1249	3.53	1269	3.67	1289	3.82	1308	3.96	
3600	1194	3.37	1217	3.53	1240	3.69	1262	3.85	1282	4.01	1303	4.17	1322	4.32	1341	4.48	1361	4.64	1378	4.79	
4000	1269	4.16	1292	4.34	1314	4.52	1335	4.70	1356	4.88	1377	5.06	1397	5.24	1415	5.41	—	—	—	—	
4400	1339	5.02	1365	5.25	1388	5.47	1410	5.67	—	—	—	—	—	—	—	—	—	—	—	—	
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 105, p. 133](#).
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 114, p. 135](#) to determine additional static pressure drop due to other options/accessories.
4. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp+.475. 5-hp Fan Motor Heat (MBh) = 2.950 x Fan bhp+.470.
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 Motor Sheave 1VM50 x 7/8 inch, Fan Sheave AK89, and Belt AX40 required

Evaporator Fan Performance

Table 87. Belt drive evaporator fan performance - 3 tons high efficiency - THC036E3,E4,EW downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 88. Belt drive evaporator fan performance - 3 tons high efficiency - THC036E3,E4,EW horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 89. 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)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

(c) 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 - YHC036E3,E4,EW*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 91. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4,EW*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive^(b)											
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^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

(c) 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*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK51x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 93. Belt drive evaporator fan performance - 4 tons high efficiency - THC048E3,E4 downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
1280	—	—	—	—	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	—	—	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	—	—	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	—	—	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 ^(b)										
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 ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK54x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 94. Belt drive evaporator fan performance - 4 tons high efficiency - THC048E3,E4 horizontal airflow

External Static Pressure (Inches of Water)																						
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)											
1280	—	—	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	—	—	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	—	—	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 ^(c)										

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)										
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 ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK54x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 95. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,E4*L,M low & medium gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK54x3/4" required. Field Supplied Belt may be necessary.

(c) 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 - YHC048E3,E4*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)									
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 ^(c)	

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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK54x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 97. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,E4*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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	rpm
1-hp Standard Motor & Drive^(b)											
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^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK54x3/4" required. Field Supplied Belt may be necessary.

(c) 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*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)	

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	rpm
1-hp Standard Motor & Drive ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK54x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 99. Belt drive evaporator fan performance - 5 tons high efficiency - THC060E3,E4 downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)								
1600	—	—	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	—	—	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 ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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



Evaporator Fan Performance

Table 100. Belt drive evaporator fan performance - 5 tons high efficiency - THC060E3,E4 horizontal airflow

External Static Pressure (Inches of Water)																				
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)									
1600	—	—	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 ^(c)									

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)										
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	—	—
2200	1196	1.23	1237	1.33	1271	1.42	—	—	—	—
2400	1219	1.37	1261	1.48	—	—	—	—	—	—
1-hp Standard Motor & Field Supplied High Static Drive ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Evaporator Fan Performance

Table 101. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,E4*L,M low & medium gas heat downflow airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

(c) 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 - YHC060E3,E4*L,M low & medium gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)	
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)																					
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 ^(c)																					

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)											
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 ^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.
 (c) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 103. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,E4*H high gas heat downflow airflow

External Static Pressure (Inches of Water)																					
	.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(b)										
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 ^(c)										

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

(c) 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 standard efficiency - YHC060E3,E4*H high gas heat horizontal airflow

External Static Pressure (Inches of Water)																					
		.10		.20		.30		.40		.50		.60		.70		.80		.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 ^(b)										
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 ^(c)	

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	rpm
1-hp Standard Motor & Drive^(b)											
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^(c)											

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference [Table 110, p. 134](#).
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 115, p. 137](#) 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 AK49x3/4" required. Field Supplied Belt may be necessary.

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

Fan Performance

Table 105. 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/YSC036E3	AK51x3/4"	N/A	765	835	905	975	1045	1115
4	T/YSC048E3	AK49x3/4"	N/A	804	876	948	1020	1091	1163
5	T/YSC060E3	AK44x3/4"	N/A	885	966	1049	1131	1212	1295
6	T/YSC072E	AK64x1"	N/A	723	779	835	890	946	1002
7½-8½	T/YSC092-102E	AK59x1"	N/A	787	847	908	968	1029	1089
10	T/YSC120E	AK59x1"	N/A	908	969	1029	1090	1150	1211
3	WSC036E3	AK51x3/4"	N/A	761	835	909	982	1057	1125
4	WSC048E3	AK49x3/4"	N/A	801	874	946	1019	1091	1164
5	WSC060E3	AK49x3/4"	N/A	798	868	939	1010	1081	1152

Note: Factory set at 3 turns open.

Table 106. 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/YSC036E3	AK71x3/4"	N/A	556	606	657	707	757	808
4	T/YSC048E3	AK69x3/4"	N/A	N/A	624	675	727	779	832
5	T/YSC060E3	AK61x3/4"	N/A	N/A	708	765	823	880	938
7½	TSC092E	AK99x1"	N/A	462	498	533	569	604	640
7½	TSC092E	AK79x1"	N/A	582	627	672	716	761	806
8½	TSC102E	AK99x1"	N/A	462	498	533	569	604	640
8½	TSC102E	AK79x1"	N/A	582	627	672	716	761	806
10	TSC120E	AK94x1"	N/A	563	600	638	675	713	750
10	TSC120E	AK74x1"	N/A	719	767	815	862	910	958
3	WSC036E3	AK71x3/4"	N/A	549	600	650	701	751	802
4	WSC048E3	AK69x3/4"	N/A	567	619	671	723	775	828
5	WSC060E3	AK69x3/4"	N/A	566	617	668	719	770	821

Note: Factory set at 3 turns open.

Table 107. 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/YSC036E3	AK41x3/4"	N/A	967	1040	1113	1187	1228	N/A
4	T/YSC048E3	AK41x3/4"	N/A	957	1033	1110	1187	1263	N/A
5	T/YSC060E3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	T/YSC072E3,E4,EW	N/A	N/A	831	895	959	1022	1086	1150
3	WSC036E3	AK41 x 3/4"	N/A	966	1041	1115	1190	1227	N/A
4	WSC048E3	AK41 x 3/4"	N/A	958	1034	1110	1186	1261	N/A
5	WSC060E3	AK41 x 3/4"	N/A	970	1034	1097	1161	1224	N/A

Note: Factory set at 3 turns open.



Fan Performance

Table 108. 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/Y*C072E	N/A	958	1022	1086	1150	1214	1278
7½	T/Y*C092E	N/A	958	1022	1086	1150	1214	1278
8½	T/Y*C102E	N/A	958	1022	1086	1150	1214	1278
10	T/Y*C120E	1050	1135	1200	1275	1350	1425	N/A

Notes: Factory set at 3 turns open.

* Indicates both standard and high efficiency units and both ReliaTel™ and Electromechanical controls.

Table 109. 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/YSC036E1, E3, E4, EW	79	85	79	79	77	71	67	58	81
4	T/YSC048E1, E3, E4, EW	82	84	83	80	76	72	66	58	82
5	T/YSC060E1, E3, E4, EW	85	82	81	81	77	72	67	61	82
6	T/YSC072E	91	95	90	87	84	79	75	68	89
7½	T/YSC092E	92	96	92	89	85	80	76	69	91
8½	T/YSC102E	91	95	90	87	84	79	75	68	89
10	T/YSC120E	94	89	87	85	84	78	75	69	88
3	WSC036E1	79	85	80	79	77	72	67	59	81
3	WSC036E3, E4, EW	77	85	79	78	75	71	66	59	80
4	WSC048E1, E3, E4, EW	81	82	83	81	77	72	66	59	82
5	WSC060E1, E3, E4, EW	81	87	84	85	83	78	73	67	87

Note: Tests follow ARI270-95.

Table 110. 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
15 SEER High Efficiency									
3	T/YHC036E	AK51x3/4"	N/A	765	835	905	975	1045	1115
4	T/YHC048E	AK54x3/4"	N/A	729	794	860	926	991	1057
5	T/YHC060E	AK49x3/4"	N/A	801	871	942	1012	1083	1154

Note: Factory set at 3 turns open.

Table 111. 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/YHC036E	AK71x3/4"	N/A	556	606	657	707	757	808
4	T/YHC048E	AK74x3/4"	N/A	528	576	625	673	722	770
5	T/YHC060E	AK69x3/4"	N/A	565	617	669	721	773	825

Note: Factory set at 3 turns open.

Fan Performance

Table 112. Standard motor & high static drive accessory sheave/fan speed (rpm)

Unit Model		Fan	6 Turns	5 Turns	4 Turns	3 Turns	2 Turns	1 Turn	
Tons	Number	Sheave	Open	Open	Open	Open	Open	Open	Closed
3	T/YHC036E	AK41x3/4"	N/A	N/A	967	1040	1113	1187	N/A
4	T/YHC048E	AK41x3/4"	N/A	N/A	966	1048	1132	1215	N/A
5	T/YHC060E	AK41x3/4"	N/A	N/A	961	1041	1122	1203	N/A

Note: Factory set at 3 turns open.

Table 113. Outdoor sound power level - dB (ref. 10 - 12 W)

Unit Model		Octave Center Frequency								Overall
Tons	Number	63	125	250	500	1000	2000	4000	8000	dBA
3	YHC036E1,E3	79	85	79	79	77	71	67	58	81
4	YHC048E1,E3	80	86	84	85	83	79	73	67	87
5	YHC060E1,E3	80	86	84	85	83	79	73	67	87

Note: Tests follow ARI270-95

Table 114. Static pressure drop through accessories (inches water column) - 3-10 tons

Unit Model Standard 2" MERV 7 2" MERV 13						Economizer with OA/RA Dampers ^(a)				Electric Heater Accessory (kW) ^{(b),(c)}			
						100 % OA	100 % RA	100 % OA	100 % RA	5-6	9-15	17-36	54
						Downflow		Horizontal					
Tons	Number	cfm	Filters ^(d)	Filter	Filter								
3	T/YSC036E1	960	0.01	0.03	0.04	0.04	0.01	0.04	0.01	0.01	0.01	0.01	—
3	T/YSC036E1	1200	0.02	0.04	0.05	0.06	0.01	0.06	0.01	0.02	0.02	0.02	—
3	T/YSC036E1	1440	0.03	0.05	0.06	0.08	0.02	0.08	0.01	0.02	0.03	0.03	—
3	T/YSC036E3	960	0.01	0.03	0.04	0.04	0.01	0.04	0.01	0.01	0.01	0.01	—
3	T/YSC036E3	1200	0.02	0.04	0.05	0.06	0.01	0.06	0.01	0.02	0.02	0.02	—
3	T/YSC036E3	1440	0.03	0.05	0.06	0.08	0.02	0.08	0.01	0.02	0.03	0.03	—
4	T/YSC048E1	1280	0.03	0.05	0.06	0.09	0.02	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	0.02	0.04	0.05	0.05	—
4	T/YSC048E1	1920	0.06	0.10	0.08	0.17	0.06	0.17	0.02	0.05	0.06	0.08	—
4	T/YSC048E3	1280	0.03	0.05	0.06	0.09	0.02	0.09	0.01	0.02	0.03	0.03	—
4	T/YSC048E3	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.02	0.04	0.05	0.05	—
4	T/YSC048E3	1920	0.06	0.10	0.08	0.17	0.06	0.17	0.02	0.05	0.06	0.08	—
5	T/YSC060E1	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.02	0.04	0.05	0.05	—
5	T/YSC060E1	2000	0.06	0.10	0.09	0.18	0.07	0.18	0.02	0.06	0.07	0.08	—
5	T/YSC060E1	2400	0.08	0.13	0.10	0.25	0.11	0.25	0.03	0.08	0.10	0.12	—
5	T/YSC060E3	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.02	0.04	0.05	0.05	—
5	T/YSC060E3	2000	0.06	0.10	0.09	0.18	0.07	0.18	0.02	0.06	0.07	0.08	—
5	T/YSC060E3	2400	0.08	0.13	0.10	0.25	0.11	0.25	0.03	0.08	0.10	0.12	—
6	T/YSC072E	1920	0.04	0.07	0.10	0.10	0.01	0.06	0.02	0.02	0.011	0.021	—
6	T/YSC072E	2400	0.06	0.09	0.13	0.11	0.02	0.08	0.02	0.02	0.020	0.034	—
6	T/YSC072E	2880	0.09	0.12	0.15	0.13	0.04	0.10	0.04	0.04	0.033	0.052	—

continued on next page



Fan Performance

Table 114. Static pressure drop through accessories (inches water column) - 3-10 tons (continued)

Unit Model						Economizer with OA / RA Dampers ^(a)				Electric Heater Accessory (kW) ^{(b), (c)}			
						100 %	100 %	100 %	100 %	5-6	9-15	17-36	54
						OA	RA	OA	RA				
Tons	Number	cfm	Filters ^(d)	Filter	Filter	Downflow		Horizontal					
7½	T/YSC092E	2400	0.04	0.06	0.12	0.11	0.02	0.08	0.02	0.02	0.016	0.021	—
7½	T/YSC092E	3000	0.06	0.09	0.13	0.14	0.05	0.12	0.05	0.05	0.025	0.032	—
7½	T/YSC092E	3600	0.09	0.13	0.15	0.21	0.07	0.25	0.08	0.08	0.036	0.046	—
8½	T/YSC102E	2720	0.05	0.08	0.13	0.12	0.03	0.09	0.04	0.04	0.020	0.026	—
8½	T/YSC102E	3400	0.08	0.11	0.14	0.19	0.06	0.18	0.06	0.06	0.032	0.041	—
8½	T/YSC102E	4080	0.12	0.16	0.16	0.30	0.07	0.31	0.09	0.09	0.047	0.059	—
10	T/YSC120E	3200	0.07	0.10	0.14	0.17	0.05	0.14	0.05	0.05	0.028	0.036	0.042
10	T/YSC120E	4000	0.11	0.15	0.16	0.26	0.07	0.30	0.08	0.08	0.045	0.056	0.070
10	T/YSC120E	4800	0.16	0.20	0.18	0.34	0.09	0.35	0.10	0.10	0.065	0.081	0.106
3	WSC036E1	960	0.02	0.03	0.03	0.05	0.01	0.05	0.01	0.01	0.02	0.02	—
3	WSC036E1	1200	0.03	0.05	0.04	0.07	0.02	0.07	0.01	0.02	0.03	0.03	—
3	WSC036E1	1440	0.03	0.06	0.04	0.10	0.03	0.10	0.01	0.03	0.04	0.04	—
3	WSC036E3	960	0.02	0.03	0.03	0.05	0.01	0.05	0.01	0.01	0.02	0.02	—
3	WSC036E3	1200	0.03	0.05	0.04	0.07	0.02	0.07	0.01	0.02	0.03	0.03	—
3	WSC036E3	1440	0.03	0.06	0.04	0.10	0.03	0.10	0.01	0.03	0.04	0.04	—
4	WSC048E1	1280	0.03	0.05	0.06	0.09	0.02	0.09	0.01	0.02	0.03	0.03	—
4	WSC048E1	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.02	0.04	0.05	0.05	—
4	WSC048E1	1920	0.06	0.10	0.08	0.17	0.06	0.17	0.02	0.05	0.06	0.08	—
4	WSC048E3	1280	0.03	0.05	0.06	0.09	0.02	0.09	0.01	0.02	0.03	0.03	—
4	WSC048E3	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.02	0.04	0.05	0.05	—
4	WSC048E3	1920	0.06	0.10	0.08	0.17	0.06	0.17	0.02	0.05	0.06	0.08	—
5	WSC060E1	1600	0.03	0.06	0.05	0.09	0.01	0.05	0.01	0.01	0.01	0.02	—
5	WSC060E1	2000	0.05	0.08	0.07	0.11	0.01	0.07	0.02	0.02	0.01	0.03	—
5	WSC060E1	2400	0.07	0.10	0.10	0.12	0.03	0.09	0.03	0.03	0.02	0.04	—
5	WSC060E3	1600	0.03	0.06	0.05	0.09	0.01	0.05	0.01	0.01	0.01	0.02	—
5	WSC060E3	2000	0.05	0.08	0.07	0.11	0.01	0.07	0.02	0.02	0.01	0.03	—
5	WSC060E3	2400	0.07	0.10	0.10	0.12	0.03	0.09	0.03	0.03	0.02	0.04	—

(a) OA = Outside Air and RA = Return Air.

(b) Nominal kW ratings at 240, 480, 600 volts.

(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 7 and MERV 13 filters.

Fan Performance

Table 115. Static pressure drop through accessories (inches water column) - 3-5 tons

Tons	Unit Model Number	cfm	Standard 2" Filters ^(c)	MERV 7 Filter	MERV 13 Filter	Economizer with OA/RA Dampers ^(a)				Electric Heater Accessory (kW) ^(b)		
						100 % OA	100 % RA	100 % OA	100 % RA	5-6	9-15	17-36
						Downflow	Horizontal	Downflow	Horizontal			
3	T/YHC036E1	960	0.013	0.027	0.04	0.041	0.007	0.041	0.006	0.010	0.012	0.014
3	T/YHC036E1	1200	0.020	0.037	0.05	0.059	0.013	0.059	0.008	0.015	0.019	0.022
3	T/YHC036E1	1440	0.027	0.048	0.06	0.080	0.021	0.080	0.010	0.022	0.027	0.032
3	T/YHC036E3,4	960	0.013	0.027	0.04	0.041	0.007	0.041	0.006	0.010	0.012	0.014
3	T/YHC036E3,4	1200	0.020	0.037	0.05	0.059	0.013	0.059	0.008	0.015	0.019	0.022
3	T/YHC036E3,4	1440	0.027	0.048	0.06	0.080	0.021	0.080	0.010	0.022	0.027	0.032
4	T/YHC048E1	1280	0.015	0.042	0.03	0.081	0.000	0.038	0.009	0.009	0.001	0.006
4	T/YHC048E1	1600	0.031	0.059	0.05	0.092	0.006	0.052	0.015	0.015	0.008	0.016
4	T/YHC048E1	1920	0.046	0.076	0.07	0.102	0.014	0.066	0.020	0.020	0.014	0.025
4	T/YHC048E3,4	1280	0.015	0.042	0.03	0.081	0.000	0.038	0.009	0.009	0.001	0.006
4	T/YHC048E3,4	1600	0.031	0.059	0.05	0.092	0.006	0.052	0.015	0.015	0.008	0.016
4	T/YHC048E3,4	1920	0.046	0.076	0.07	0.102	0.014	0.066	0.020	0.020	0.014	0.025
5	T/YHC060E1	1600	0.031	0.059	0.08	0.091	0.007	0.052	0.015	0.015	0.008	0.016
5	T/YHC060E1	2000	0.049	0.079	0.11	0.105	0.014	0.069	0.021	0.021	0.015	0.026
5	T/YHC060E1	2400	0.070	0.101	0.13	0.118	0.026	0.086	0.029	0.029	0.024	0.040
5	T/YHC060E3,4	1600	0.031	0.059	0.08	0.091	0.007	0.052	0.015	0.015	0.008	0.016
5	T/YHC060E3,4	2000	0.049	0.079	0.11	0.105	0.014	0.069	0.021	0.021	0.015	0.026
5	T/YHC060E3,4	2400	0.070	0.101	0.13	0.118	0.026	0.086	0.029	0.029	0.024	0.040

(a) OA = Outside Air and RA = Return Air.

(b) Nominal kW ratings at 240, 480, 600V. Heaters only available on T_C units.

(c) Tested with standard filters. Difference in pressure drop should be considered when utilizing optional 2" MERV 7 and MERV 13 filters. Unit applications below 320 cfm/ton are not applicable with Gas Heat or Electric Heaters.

Table 116. 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

continued on next page

Fan Performance

Table 116. Gas fired heating capacities - standard efficiency (continued)

Tons	Unit Model Number	Heating Input MBh ^(a)	Heating Output MBh	Air Temp. Rise, F
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
6	YSC072E(3,4,W)*(L,X)	80.0	64.8	15-45
6	YSC072E(3,4,W)*(M,Y)	120.0	97.2	20-50
6	YSC072E(3,4,W)*(H,Z)	150.0/105	121.5/85	25-55
7½	YSC092E(3,4,W)*(L,X)	120.0	97.2	20-50
7½	YSC092E(3,4,W)*(M,Y)	150.0/105	121.5/85	25-55
7½	YSC092E(3,4,W)*(H,Z)	200.0/140	160.0/112	35-65
8½	YSC102E(3,4,W)*(L,X)	120.0	97.2	15-45
8½	YSC102E(3,4,W)*(M,Y)	150.0/105	121.5/85	20-50
8½	YSC102E(3,4,W)*(H,Z)	200.0/140	160.0/112	35-65
10	YSC120E(3,4,W)*(L,X)	150.0/105	121.5/85	20-50
10	YSC120E(3,4,W)*(M,Y)	200.0/140	162.0/113	25-55
10	YSC120E(3,4,W)*(H,Z)	250.0/175	202.5/141.8	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 117. 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)*(L,X)	60	48	25 - 55
3	YHC036E(3,4)*(M,Y)	80	64	35 - 65
3	YHC036E(3,4)*(H,Z)	120	96	55 - 85
4	YHC048E1*(L,X)	60	49	10 - 40
4	YHC048E1*(M,Y)	80	64	20 - 50
4	YHC048E1*(H,Z)	120	96	40 - 70
4	YHC048E(3,4)*(L,X)	60	48	10 - 40
4	YHC048E(3,4)*(M,Y)	80	64	20 - 50
4	YHC048E(3,4)*(H,Z)	120	96	40 - 70
5	YHC060E1*(L,X)	60	49	10 - 40
5	YHC060E1*(M,Y)	80	64	15 - 45
5	YHC060E1*(H,Z)	130	104	35 - 65
5	YHC060E(3,4)*(L,X)	60	48	10 - 40
5	YHC060E(3,4)*(M,Y)	80	64	15 - 45
5	YHC060E(3,4)*(H,Z)	130	104	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 118. Auxiliary electric heat capacity

Tons	Unit Model Number	Total ^(a)		No. of Stages	Stage1		Stage 2	
		kW Input ^(b)	MBh Output		kW Input	MBh Output	kW Input	MBh Output
3	T*C036E1 WSC036E1	5.00	17.07	1	5.00	17.07	—	—
3		10.00	34.14	2	5.00	17.07	5.00	17.07
3		13.80	47.11	2	5.00	17.07	8.80	30.04
3	T*C036E3, E4, EW ^(c) WSC036E3, E4, EW	6.00	20.48	1	6.00	20.48	—	—
3		12.00	40.97	2	6.00	20.48	6.00	20.48
3		17.40	59.40	2	8.70	29.70	8.70	29.70
4	T*C048E1 WSC048E1	5.00	17.07	1	5.00	17.07	—	—
4		10.00	34.14	2	5.00	17.07	5.00	17.07
4		13.80	47.11	2	5.00	17.07	8.80	30.04
4		17.60	60.09	2	8.80	30.04	8.80	30.04
4	T*C048E3, E4, EW ^(c) WSC048E3, E4, EW	6.00	20.48	1	6.00	20.48	—	—
4		12.00	40.97	2	6.00	20.48	6.00	20.48
4		17.40	59.40	2	8.70	29.70	8.70	29.70
5	T*C060E1 WSC060E1	5.00	17.07	1	5.00	17.07	—	—
5		10.00	34.14	2	5.00	17.07	5.00	17.07
5		13.80	47.11	2	5.00	17.07	8.80	30.04
5		17.60	60.09	2	8.80	30.04	8.80	30.04
5	T*C060E3, E4, EW ^(c) WSC060E3, E4, EW	6.00	20.48	1	6.00	20.48	—	—
5		12.00	40.97	2	6.00	20.48	6.00	20.48
5		17.40	59.40	2	8.70	29.70	8.70	29.70
5		23.00	78.52	2	8.70	29.70	14.30	48.82
6	TSC072E3,4,W	9.00	30.73	1	9.00	30.73	—	—
6	TSC072E3,4,W	18.00	61.45	1	18.00	61.45	—	—
6	TSC072E3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
6	TSC072E3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
7½	TSC092E3,4,W	9.00	30.73	1	9.00	30.73	—	—
7½	TSC092E3,4,W	18.00	61.45	1	18.00	61.45	—	—
7½	TSC092E3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
7½	TSC092E3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
8½	TSC102E3,4,W	9.00	30.73	1	9.00	30.73	—	—
8½	TSC102E3,4,W	18.00	61.45	1	18.00	61.45	—	—
8½	TSC102E3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
8½	TSC102E3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
10	TSC120E3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
10	TSC120E3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
10	TSC120E3,4,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.

(c) 600V is not available on high efficiency units.

Fan Performance

**Table 119. 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 120. 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 WSC036E1	Three Phase T*C036E3,E4,EW ^(c) WSC036E3,E4,EW	Single Phase T*C048E1 WSC048E1	Three Phase T*C048E3, E4, EW ^(c) WSC048E3, E4, EW	Single Phase T*C060E1 WSC060E1	Three Phase T*C060E3, E4, EW ^(c) WSC060E3, E4, 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:

- For minimum design airflow, see airflow performance table for each unit.
- To calculate temp rise at different airflow, use the following formula: Temp. rise across Electric Heater = $\text{kW} \times 3414 / 1.08 \times \text{CFM}$.

(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.
 (c) 600V is not available on high efficiency units.

Fan Performance

Table 121. 6-10 tons air temperature rise across electric heaters (°F)

kW	Stages	6 Tons	7 ½ Tons	8 ½ Tons	10 Tons
		2000 cfm	3000 cfm	3400 cfm ^(a)	4000 cfm
		TSC072A3, A4, AW	TSC092E3,4,W	TSC102E3,4,W	TSC120E3,4,W
11.30	1	—	—	—	—
16.90	2	—	—	—	—
18.00	1	28.5	19.0	16.7	14.2
22.60	2	—	—	—	—
27.00	2	42.7	28.5	25.1	21.3
33.80	2	—	—	—	—
36.00	2	56.9	37.9	33.5	28.5
54.00	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 = $\text{kW} \times 3414 / 1.08 \times \text{CFM}$.

(a) Minimum allowable airflow with a 17.4 or 17.6 kW heater is 1440 cfm.

Heating Performance Data

Table 122. 3 tons single phase heating capacities (net) WSC036E1 at 1200 cfm

Outdoor Temp. F.	Integrated Heating Capacity (Btuh / 1000) at Indicated Indoor Dry Bulb Temp ^(a)				Total Power in Kilowatts at at Indicated Indoor Dry Bulb Temp			
	60	70	75	80	60	70	75	80
-8	12.3	11.4	11.0	10.5	2.54	2.82	2.96	3.11
-3	14.3	13.5	13.0	12.5	2.58	2.85	3.00	3.17
2	16.5	15.7	15.2	14.8	2.61	2.89	3.05	3.21
7	17.6	16.6	16.0	15.4	2.62	2.90	3.05	3.21
12	20.0	18.9	18.2	17.7	2.67	2.96	3.10	3.26
17	22.4	21.2	20.6	20.0	2.71	2.99	3.14	3.30
22	25.0	23.7	23.1	22.5	2.75	3.03	3.19	3.36
27	27.7	26.4	25.6	25.0	2.80	3.10	3.26	3.43
32	30.3	28.8	28.2	27.4	2.84	3.13	3.30	3.47
37	33.1	31.6	30.8	30.1	2.89	3.20	3.37	3.54
42	35.8	34.2	33.4	32.6	2.94	3.24	3.42	3.60
47	38.8	37.0	36.2	35.4	3.00	3.31	3.49	3.67
52	41.5	39.7	38.8	37.9	3.05	3.37	3.54	3.73
57	44.6	42.6	41.7	40.7	3.12	3.44	3.62	3.81
62	47.4	45.3	44.3	43.3	3.17	3.51	3.69	3.88
67	50.5	48.3	47.4	46.2	3.23	3.59	3.78	3.96
72	53.4	51.0	49.9	48.7	3.30	3.65	3.84	4.04

Notes:

1. For other airflow conditions, see heating capacity correction factor [Table 119, p. 140](#).
 2. Net heating capacity and power input includes indoor fan heat at ARI esp. To obtain net heating at other conditions, subtract fan heat at this condition and add fan heat at new condition.
- (a) Integrated heating capacities and powers include the effects of defrost in the frost region. All heating capacities and power (kw) are at 70% OD relative humidity and demand defrost cycle.

Heating Performance Data

Table 123. 3 tons three phase heating capacities (net) WSC036E3,E4,EW at 1200 cfm

Outdoor Temp. F.	Integrated Heating Capacity (Btuh / 1000) at Indicated Indoor Dry Bulb Temp ^(a)				Total Power in Kilowatts at at Indicated Indoor Dry Bulb Temp			
	60	70	75	80	60	70	75	80
-8	11.7	11.0	10.5	10.2	2.41	2.68	2.81	2.97
-3	13.8	13.0	12.6	12.1	2.45	2.72	2.87	3.02
2	15.9	15.0	14.7	14.3	2.48	2.75	2.92	3.07
7	16.9	15.8	15.3	14.7	2.48	2.76	2.91	3.05
12	19.5	18.3	17.8	17.1	2.53	2.81	2.94	3.12
17	21.8	20.7	20.1	19.5	2.57	2.85	3.02	3.17
22	24.4	23.1	22.6	21.9	2.62	2.90	3.06	3.22
27	27.2	26.0	25.3	24.7	2.66	2.96	3.11	3.29
32	29.9	28.5	27.8	27.1	2.71	3.01	3.18	3.35
37	32.9	31.4	30.7	30.0	2.77	3.08	3.25	3.42
42	35.5	34.0	33.2	32.5	2.82	3.14	3.31	3.49
47	38.7	37.0	36.2	35.5	2.90	3.21	3.38	3.58
52	41.4	39.7	38.8	38.1	2.95	3.27	3.45	3.65
57	44.7	42.9	41.9	41.1	3.02	3.35	3.53	3.73
62	47.5	45.6	44.6	43.8	3.09	3.42	3.61	3.82
67	50.7	48.7	47.8	46.8	3.16	3.51	3.70	3.91
72	53.5	51.5	50.5	49.5	3.22	3.59	3.79	3.99

Notes:

1. For other airflow conditions, see heating capacity correction factor [Table 119, p. 140](#).
 2. Net heating capacity and power input includes indoor fan heat at ARI esp. To obtain net heating at other conditions, subtract fan heat at this condition and add fan heat at new condition.
- (a) Integrated heating capacities and powers include the effects of defrost in the frost region. All heating capacities and power (kw) are at 70% OD relative humidity and demand defrost cycle.



Heating Performance Data

Table 124. 4 tons single phase heating capacities (net) WSC048E1 at 1200 cfm

Outdoor Temp. F.	Integrated Heating Capacity (Btuh / 1000) at Indicated Indoor Dry Bulb Temp ^(a)				Total Power in Kilowatts at at Indicated Indoor Dry Bulb Temp			
	60	70	75	80	60	70	75	80
-8	15.2	14.0	13.4	12.8	3.23	3.60	3.81	4.02
-3	17.6	16.5	15.8	15.2	3.24	3.61	3.81	4.03
2	20.3	19.0	18.5	17.8	3.28	3.62	3.83	4.07
7	20.8	19.2	18.3	17.6	3.24	3.59	3.77	3.97
12	23.9	22.2	21.4	20.6	3.27	3.61	3.80	4.01
17	26.6	25.0	24.2	23.4	3.28	3.63	3.82	4.03
22	29.8	28.2	27.3	26.4	3.33	3.68	3.88	4.08
27	33.2	31.5	30.6	29.8	3.37	3.72	3.91	4.13
32	36.2	34.5	33.5	32.6	3.41	3.77	3.95	4.17
37	39.8	37.9	36.9	36.0	3.46	3.81	4.01	4.22
42	42.9	40.9	39.9	38.9	3.50	3.86	4.06	4.27
47	46.6	44.4	43.3	42.3	3.56	3.91	4.11	4.34
52	49.9	47.6	46.4	45.5	3.61	3.97	4.17	4.39
57	53.8	51.2	50.2	49.1	3.67	4.02	4.24	4.46
62	57.3	54.6	53.4	52.2	3.72	4.09	4.30	4.52
67	61.4	58.5	57.1	55.8	3.79	4.16	4.37	4.59
72	64.9	61.9	60.4	59.0	3.85	4.22	4.44	4.67

Notes:

1. For other airflow conditions, see heating capacity correction factor [Table 119, p. 140](#).
 2. Net heating capacity and power input includes indoor fan heat at ARI esp. To obtain net heating at other conditions, subtract fan heat at this condition and add fan heat at new condition.
- (a) Integrated heating capacities and powers include the effects of defrost in the frost region. All heating capacities and power (kw) are at 70% OD relative humidity and demand defrost cycle.

Heating Performance Data

Table 125. 4 tons three phase heating capacities (net) WSC048E3,E4,EW at 1200 cfm

Outdoor Temp. F.	Integrated Heating Capacity (Btuh / 1000) at Indicated Indoor Dry Bulb Temp ^(a)				Total Power in Kilowatts at at Indicated Indoor Dry Bulb Temp			
	60	70	75	80	60	70	75	80
-8	13.9	12.3	11.4	10.4	3.02	3.33	3.51	3.69
-3	16.7	15.0	14.1	13.2	3.06	3.38	3.55	3.74
2	19.5	17.8	17.1	16.1	3.11	3.44	3.61	3.81
7	20.7	19.0	17.9	16.9	3.11	3.44	3.61	3.80
12	23.8	22.0	21.1	20.0	3.16	3.49	3.67	3.85
17	26.6	24.9	23.9	22.9	3.20	3.53	3.71	3.90
22	29.9	28.1	27.1	26.1	3.24	3.59	3.77	3.96
27	33.3	31.4	30.4	29.3	3.29	3.65	3.82	4.02
32	36.2	34.3	33.3	32.3	3.33	3.69	3.88	4.07
37	39.8	37.8	36.8	35.8	3.39	3.74	3.94	4.15
42	42.9	40.8	39.8	38.7	3.44	3.79	3.99	4.20
47	46.6	44.4	43.3	42.1	3.50	3.86	4.05	4.26
52	50.0	47.6	46.5	45.3	3.55	3.92	4.12	4.33
57	53.9	51.3	50.3	49.0	3.62	3.98	4.19	4.41
62	57.5	54.7	53.4	52.2	3.69	4.05	4.25	4.48
67	61.5	58.7	57.4	56.0	3.75	4.13	4.34	4.56
72	65.0	62.3	60.8	59.3	3.82	4.21	4.42	4.64

Notes:

1. For other airflow conditions, see heating capacity correction factor [Table 119, p. 140](#).
 2. Net heating capacity and power input includes indoor fan heat at ARI esp. To obtain net heating at other conditions, subtract fan heat at this condition and add fan heat at new condition.
- (a) Integrated heating capacities and powers include the effects of defrost in the frost region. All heating capacities and power (kw) are at 70% OD relative humidity and demand defrost cycle.



Heating Performance Data

Table 126. 5 tons single phase heating capacities (net) WSC060E1 at 1200 cfm

Outdoor Temp. F.	Integrated Heating Capacity (Btuh / 1000) at Indicated Indoor Dry Bulb Temp ^(a)				Total Power in Kilowatts at at Indicated Indoor Dry Bulb Temp			
	60	70	75	80	60	70	75	80
-8	18.6	17.1	16.4	15.7	3.73	4.16	4.37	4.60
-3	22.2	20.9	20.1	19.4	3.82	4.26	4.49	4.71
2	26.0	24.6	23.8	23.0	3.88	4.31	4.55	4.79
7	28.4	26.7	25.7	24.9	3.92	4.36	4.58	4.80
12	32.3	30.2	29.5	28.6	3.97	4.45	4.66	4.91
17	36.2	34.5	33.6	32.7	4.03	4.46	4.69	4.97
22	40.1	38.3	37.4	36.4	4.08	4.52	4.75	5.01
27	44.1	42.2	41.3	40.4	4.15	4.61	4.84	5.08
32	48.2	46.2	45.2	44.2	4.21	4.66	4.90	5.15
37	52.4	50.3	49.2	48.2	4.27	4.72	4.97	5.24
42	56.5	54.3	53.2	52.1	4.33	4.79	5.04	5.31
47	60.7	58.5	57.4	56.2	4.41	4.86	5.12	5.39
52	64.9	62.7	61.4	60.1	4.48	4.94	5.20	5.47
57	69.7	67.0	65.6	64.3	4.55	5.03	5.28	5.57
62	74.1	71.2	69.8	68.4	4.62	5.11	5.38	5.66
67	79.0	75.6	74.1	72.6	4.72	5.19	5.47	5.76
72	83.3	79.9	78.2	76.6	4.80	5.29	5.58	5.88

Notes:

1. For other airflow conditions, see heating capacity correction factor [Table 119, p. 140](#).
 2. Net heating capacity and power input includes indoor fan heat at ARI esp. To obtain net heating at other conditions, subtract fan heat at this condition and add fan heat at new condition.
- (a) Integrated heating capacities and powers include the effects of defrost in the frost region. All heating capacities and power (kw) are at 70% OD relative humidity and demand defrost cycle.

Heating Performance Data

Table 127. 5 tons three phase heating capacities (net) WSC060E3,E4,EW at 1600 cfm

Outdoor Temp. F.	Integrated Heating Capacity (Btuh / 1000) at Indicated Indoor Dry Bulb Temp ^(a)				Total Power in Kilowatts at at Indicated Indoor Dry Bulb Temp			
	60	70	75	80	60	70	75	80
-8	20.4	19.4	18.8	18.3	3.68	4.13	4.37	4.64
-3	23.7	22.6	22.0	21.5	3.76	4.21	4.45	4.73
2	27.1	26.0	25.4	24.8	3.84	4.30	4.53	4.81
7	28.6	27.2	26.4	25.7	3.85	4.29	4.54	4.80
12	32.4	30.8	30.1	29.3	3.92	4.37	4.63	4.89
17	36.0	34.4	33.6	32.8	3.98	4.44	4.69	4.96
22	39.9	38.2	37.4	36.6	4.06	4.52	4.77	5.05
27	44.0	42.3	41.3	40.4	4.13	4.61	4.85	5.13
32	47.9	46.1	45.1	44.2	4.20	4.68	4.94	5.21
37	52.2	50.2	49.3	48.3	4.28	4.76	5.03	5.31
42	56.3	54.2	53.2	52.2	4.36	4.84	5.12	5.41
47	60.8	58.5	57.4	56.4	4.45	4.94	5.21	5.50
52	65.0	62.6	61.5	60.3	4.54	5.03	5.30	5.60
57	69.7	67.1	65.9	64.7	4.64	5.13	5.40	5.70
62	74.0	71.3	70.0	68.8	4.74	5.24	5.51	5.81
67	78.8	75.9	74.6	73.2	4.85	5.36	5.63	5.93
72	83.1	80.2	78.7	77.2	4.95	5.48	5.75	6.04

Notes:

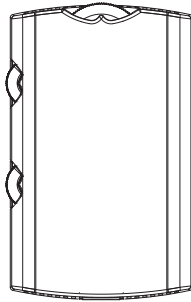
1. For other airflow conditions, see heating capacity correction factor [Table 119, p. 140](#).
 2. Net heating capacity and power input includes indoor fan heat at ARI esp. To obtain net heating at other conditions, subtract fan heat at this condition and add fan heat at new condition.
- (a) Integrated heating capacities and powers include the effects of defrost in the frost region. All heating capacities and power (kw) are at 70% OD relative humidity and demand defrost cycle.

Controls

ReliaTel™ Controlled Units

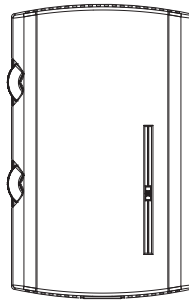
Zone Sensors are the building occupant's comfort control devices. The following zone sensor options are available for Precedent units with ReliaTel control:

Manual Changeover



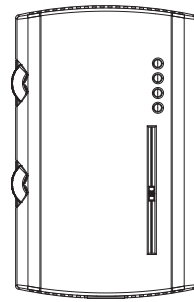
Heat, Cool or Off System Switch. Fan Auto or Off Switch. One temperature setpoint lever.

Manual/Automatic Changeover



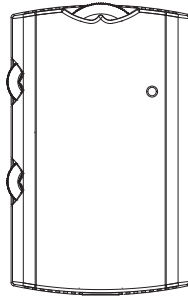
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.

Manual/Automatic Changeover



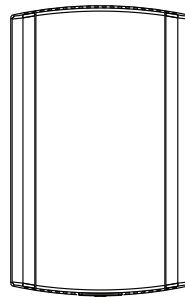
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers. Status Indication LED lights, System On, Heat, Cool, or Service.

Manual/Automatic Changeover



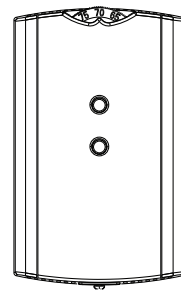
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.

Remote Sensor



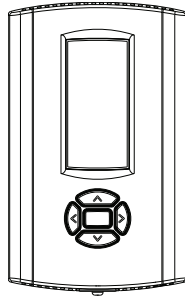
Sensor(s) available for all zone sensors to provide remote sensing capabilities.

Integrated Comfort™ System



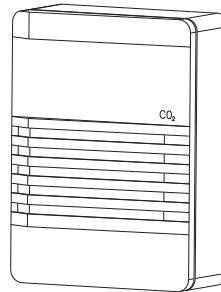
Sensor(s) available with optional temperature adjustment and override buttons to provide central control through a Trane Integrated Comfort™ system.

Programmable Night Setback



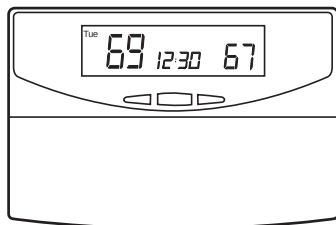
Auto or manual changeover with seven-day programming. Keyboard selection of Heat, Cool, Fan, Auto, or On. All programmable sensors have System On, Heat, Cool, Service LED/indicators as standard. Night Setback Sensors have one (1) Occupied, one (1) Un-occupied, and one (1) Override program per day.

CO₂ Sensing



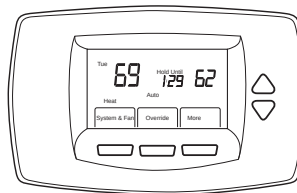
The CO₂ sensor shall have the ability to monitor space occupancy levels within the building by measuring the parts per million of CO₂ (Carbon Dioxide) in the air. As the CO₂ levels increase, the outside air damper modulates to meet the CO₂ space ventilation requirements. The CO₂ accessory shall be available as field installed.

Digital Display Programmable Thermostat with Built-In Relative Humidity Sensing (3H/2C)



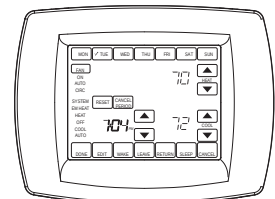
Three Heat/Two Cool digital display thermostat with built-in humidity control and display. This thermostat combines both humidity and dry bulb into one. Fully programmable with night setback.

Digital Display Programmable Thermostat (2H/2C)

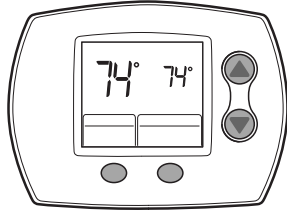


Two Heat/Two Cool digital display thermostat. 7-day programmable stat with night setback shall be available.

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 Thermostat (3H/2C)

Three Heat, Two Cool digital display thermostat. Easy access battery replacement. Flip-out door for easy battery replacement without removing or disassembling the thermostat.

Dual Thermistor Remote Zone Sensor

This sensor will allow the customer to reduce the total number of remote sensors to obtain space temperature averaging. This sensor should be utilized with ReliaTel controls.

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.

Electrical Data

Table 128. 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	27.2	40	—	—
3	T/YSC036E3	187-253	21.4	30	—	—
3	T/YSC036E4	414-506	10.1	15	—	—
3	T/YSC036EW	517-633	8.0	15	—	—
4	T/YSC048E1	187-253	35.2	50	—	—
4	T/YSC048E3	187-253	25.2	35	—	—
4	T/YSC048E4	414-506	12.5	15	—	—
4	T/YSC048EW	517-633	9.0	15	—	—
5	T/YSC060E1	187-253	43.8	70	—	—
5	T/YSC060E3	187-253	29.5	45	—	—
5	T/YSC060E4	414-506	15.5	25	—	—
5	T/YSC060EW	517-633	10.1	15	—	—
6	T/YSC072E3	187-253	36.5	50	37.8	60
6	T/YSC072E4	414-506	18.2	25	18.8	25
6	T/YSC072EW	517-633	12.7	20	13.5	20
7½ ^(b)	T/YSC092E3	187-253	43.3	50	46.4	60
7½ ^(b)	T/YSC092E4	414-506	21.5	25	23.0	30
7½ ^(b)	T/YSC092EW	517-633	15.9	20	17.1	20
8½	T/YSC102E3	187-253	46.3	60	49.4	60
8½	T/YSC102E4	414-506	21.9	25	23.4	30
8½	T/YSC102EW	517-633	17.5	20	18.7	20
10	T/YSC120E3	187-253	55.9	60	59.9	60
10	T/YSC120E4	414-506	26.5	35	28.5	35
10	T/YSC120EW	517-633	21.2	25	22.9	30
3	WSC036E1	187-253	31.2	45	—	—
3	WSC036E3	187-253	23.8	35	—	—
3	WSC036E4	414-506	11.4	15	—	—
3	WSC036EW	517-633	8.8	15	—	—
4	WSC048E1	187-253	38.9	60	—	—
4	WSC048E3	187-253	27.5	40	—	—
4	WSC048E4	414-506	12.3	15	—	—
4	WSC048EW	517-633	9.5	15	—	—
5	WSC060E1	187-253	44.6	70	—	—
5	WSC060E3	187-253	30.2	45	—	—
5	WSC060E4	414-506	14.7	20	—	—
5	WSC060EW	517-633	11.0	15	—	—

(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 the 3-phase models is a Belt Drive Motor.

(b) Dual refrigeration system.



Electrical Data

Table 129. 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	40.0/40.0	—	—
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	35.2/35.5	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	43.8/43.8	70.0/70.0	—	—
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	21.9/24.3	30.0/30.0	—	—
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	25.2/25.2	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	29.5/29.5	45.0/45.0	—	—
5	TSC060E3	BAYHTRE312*	9.0/12.0	2	37.5/42.4	45.0/45.0	—	—
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	TSC072E3	BAYHTRS309*	6.8/9.0	1	36.5/36.5	50/50	37.8/37.8	60/60
6	TSC072E3	BAYHTRS318*	13.5/18.0	1	53.1/60.4	60/70	54.8/62.0	60/70
6	TSC072E3	BAYHTRS327*	20.3/27.0	2	76.6/87.5	80/90	78.3/89.1	80/90
6	TSC072E3	BAYHTRS336*	27.0/36.0	2	100.1/114.5	110/125	101.8/116.1	110/125
7½ ^(b)	TSC092E3	BAYHTRT309*	6.8/9.0	1	43.3/43.3	50/50	46.4/46.4	60/60
7½ ^(b)	TSC092E3	BAYHTRT318*	13.5/18.0	1	54.8/62.0	60/70	58.6/65.9	60/70
7½ ^(b)	TSC092E3	BAYHTRT327*	20.3/27.0	2	78.3/89.1	80/90	82.1/93.0	90/100
7½ ^(b)	TSC092E3	BAYHTRT336*	27.0/36.0	2	101.8/116.1	110/125	105.6/120.0	110/125
8.5	TSC102E3	BAYHTRT309*	6.8/9.0	1	46.3/46.3	60/60	49.4/49.4	60/60
8.5	TSC102E3	BAYHTRT318*	13.5/18.0	1	54.8/62.0	60/70	58.6/65.9	60/70
8.5	TSC102E3	BAYHTRT327*	20.3/27.0	2	78.3/89.1	80/90	82.1/93.0	90/100
8.5	TSC102E3	BAYHTRT336*	27.0/36.0	2	101.8/116.1	110/125	105.6/120.0	110/125
10	TSC120E3	BAYHTRT318*	13.5/18.0	1	58.6/65.9	60/70	63.6/70.9	80/80
10	TSC120E3	BAYHTRT327*	20.3/27.0	2	82.1/93.0	90/100	87.1/98.0	90/100
10	TSC120E3	BAYHTRT336*	27.0/36.0	2	105.6/120.0	110/125	110.6/125.0	125/125
10	TSC120E3	BAYHTRT354*	40.6/54.0	2	152.5/141.7	175/150	157.5/146.7	175/150

continued on next page

Electrical Data

Table 129. 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		Oversized Indoor Motor	
					MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
480 Volts Three Phase								
3	TSC036E4	BAYHTRE406*	6.0	1	12.1	15.0	—	—
3	TSC036E4	BAYHTRE412*	12.0	2	21.1	25.0	—	—
3	TSC036E4	BAYHTRE418*	17.4	2	29.3	30.0	—	—
4	TSC048E4	BAYHTRE406*	6.0	1	12.5	15.0	—	—
4	TSC048E4	BAYHTRE412*	12.0	2	21.1	25.0	—	—
4	TSC048E4	BAYHTRE418*	17.4	2	29.3	30.0	—	—
5	TSC060E4	BAYHTRE406*	6.0	1	15.5	25.0	—	—
5	TSC060E4	BAYHTRE412*	12.0	2	21.1	25.0	—	—
5	TSC060E4	BAYHTRE418*	17.4	2	29.3	30.0	—	—
5	TSC060E4	BAYHTRE423*	23.0	2	37.8	40.0	—	—
6	TSC072E4	BAYHTRS409*	9.0	1	18.2	25	18.8	25
6	TSC072E4	BAYHTRS418*	18.0	1	30.3	35	31.0	35
6	TSC072E4	BAYHTRS427*	27.0	2	43.8	45	44.5	45
6	TSC072E4	BAYHTRS436*	36.0	2	57.3	60	58.0	60
7½ ^(b)	TSC092E4	BAYHTRT409*	9.0	1	21.5	25	23.0	30
7½ ^(b)	TSC092E4	BAYHTRT418*	18.0	1	31.0	35	32.9	35
7½ ^(b)	TSC092E4	BAYHTRT427*	27.0	2	44.5	45	46.4	50
7½ ^(b)	TSC092E4	BAYHTRT436*	36.0	2	58.0	60	59.9	60
8½	TSC102E4	BAYHTRT409*	9.0	1	21.9	25	23.4	30
8½	TSC102E4	BAYHTRT418*	18.0	1	31.0	35	32.9	35
8½	TSC102E4	BAYHTRT427*	27.0	2	44.5	45	46.4	50
8½	TSC102E4	BAYHTRT436*	36.0	2	58.0	60	59.9	60
10	TSC120E4	BAYHTRT418*	18.0	1	32.9	35	35.4	40
10	TSC120E4	BAYHTRT427*	27.0	2	46.4	50	48.9	50
10	TSC120E4	BAYHTRT436*	36.0	2	59.9	60	62.4	70
10	TSC120E4	BAYHTRT454*	54.0	2	70.8	80	73.3	80
575 Volts Three Phase								
3	TSC036EW	BAYHTREW06*	6.0	1	9.4	15.0	—	—
3	TSC036EW	BAYHTREW12*	12.0	2	16.5	20.0	—	—
3	TSC036EW	BAYHTREW18*	17.4	2	23.0	25.0	—	—
4	TSC048EW	BAYHTREW06*	6.0	1	9.4	15.0	—	—
4	TSC048EW	BAYHTREW12*	12.0	2	16.5	20.0	—	—
4	TSC048EW	BAYHTREW18*	17.4	2	23.0	25.0	—	—
5	TSC060EW	BAYHTREW06*	6.0	1	10.1	15.0	—	—
5	TSC060EW	BAYHTREW12*	12.0	2	16.5	20.0	—	—
5	TSC060EW	BAYHTREW18*	17.4	2	23.0	25.0	—	—
5	TSC060EW	BAYHTREW23*	23.0	2	29.8	30.0	—	—
6	TSC072EW	BAYHTRSW09*	9.0	1	13.0	20	14.0	20
6	TSC072EW	BAYHTRSW18*	18.0	1	23.8	25	24.8	25
6	TSC072EW	BAYHTRSW27*	27.0	2	34.6	35	35.6	40

continued on next page



Electrical Data

Table 129. 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	Oversized Indoor Motor		
					MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
6	TSC072EW	BAYHTRSW36*	36.0	2	45.4	50	46.4	50
7½ ^(b)	TSC092EW	BAYHTRTW18*	18.0	1	24.8	25	26.3	30
7½ ^(b)	TSC092EW	BAYHTRTW27*	27.0	2	35.6	40	37.1	40
7½ ^(b)	TSC092EW	BAYHTRTW36*	36.0	2	46.4	50	47.9	50
8½	TSC102EW	BAYHTRTW18*	18.0	1	24.8	25	26.3	30
8½	TSC102EW	BAYHTRTW27*	27.0	2	35.6	40	37.1	40
8½	TSC102EW	BAYHTRTW36*	36.0	2	46.4	50	47.9	50
10	TSC120EW	BAYHTRTW18*	18.0	1	26.3	30	28.4	30
10	TSC120EW	BAYHTRTW27*	27.0	2	37.1	40	39.3	40
10	TSC120EW	BAYHTRTW36*	36.0	2	47.9	50	50.0	50
10	TSC120EW	BAYHTRTW54*	54.0	2	56.6	60	58.8	60
208/230 Volts Single Phase								
3	WSC036E1	BAYHTRE105*	3.8/5.0	1	53.9/57.2	60.0/70.0	—	—
3	WSC036E1	BAYHTRE110*	7.5/10.0	2	76.4/83.4	80.0/90.0	—	—
3	WSC036E1	BAYHTRE114*	10.4/13.8	2	93.5/103.1	100.0/110.0	—	—
4	WSC048E1	BAYHTRE105*	3.8/5.0	1	61.6/64.9	80.0/80.0	—	—
4	WSC048E1	BAYHTRE110*	7.5/10.0	2	84.1/91.1	90.0/100.0	—	—
4	WSC048E1	BAYHTRE114*	10.4/13.8	2	101.2/110.8	110.0/125.0	—	—
4	WSC048E1	BAYHTRE118*	13.2/17.6	2	118.4/130.6	125.0/150.0	—	—
5	WSC060E1	BAYHTRX105*	3.8/5.0	1	67.2/70.6	90.0/90.0	—	—
5	WSC060E1	BAYHTRX110*	7.5/10.0	2	89.7/96.7	100.0/110.0	—	—
5	WSC060E1	BAYHTRX114*	10.4/13.8	2	106.8/116.4	110.0/125.0	—	—
5	WSC060E1	BAYHTRX118*	13.2/17.6	2	124.1/136.2	125.0/150.0	—	—
208/230 Volts Three Phase								
3	WSC036E3	BAYHTRE306*	4.5/6.0	1	39.5/41.8	45.0/50.0	—	—
3	WSC036E3	BAYHTRE312*	9.0/12.0	2	55.1/60.0	60.0/60.0	—	—
3	WSC036E3	BAYHTRE318*	13.1/17.4	2	69.2/76.2	70.0/80.0	—	—
4	WSC048E3	BAYHTRE306*	4.5/6.0	1	43.2/45.5	50.0/50.0	—	—
4	WSC048E3	BAYHTRE312*	9.0/12.0	2	58.8/63.7	60.0/70.0	—	—
4	WSC048E3	BAYHTRE318*	13.1/17.4	2	72.9/79.9	80.0/80.0	—	—
5	WSC060E3	BAYHTRX306*	4.5/6.0	1	45.8/48.2	60.0/60.0	—	—
5	WSC060E3	BAYHTRX312*	9.0/12.0	2	61.4/66.3	70.0/70.0	—	—
5	WSC060E3	BAYHTRX318*	13.1/17.4	2	75.6/82.6	80.0/90.0	—	—
5	WSC060E3	BAYHTRX323*	17.3/23.0	2	90.2/99.3	100.0/100.0	—	—
480 Volts Three Phase								
3	WSC036E4	BAYHTRE406*	6.0	1	20.4	25.0	—	—
3	WSC036E4	BAYHTRE412*	12.0	2	29.4	30.0	—	—
3	WSC036E4	BAYHTRE418*	17.4	2	37.5	40.0	—	—
4	WSC048E4	BAYHTRE406*	6.0	1	21.3	25.0	—	—
4	WSC048E4	BAYHTRE412*	12.0	2	30.3	35.0	—	—
4	WSC048E4	BAYHTRE418*	17.4	2	38.4	40.0	—	—

continued on next page

Electrical Data

Table 129. 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		Oversized Indoor Motor	
					MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
5	WSC060E4	BAYHTRX406*	6.0	1	23.7	30.0	—	—
5	WSC060E4	BAYHTRX412*	12.0	2	32.7	35.0	—	—
5	WSC060E4	BAYHTRX418*	17.4	2	40.8	45.0	—	—
5	WSC060E4	BAYHTRX423*	23.0	2	49.3	50.0	—	—
575 Volts Three Phase								
3	WSC036EW	BAYHTREW06*	6.0	1	16.1	20.0	—	—
3	WSC036EW	BAYHTREW12*	12.0	2	23.2	25.0	—	—
3	WSC036EW	BAYHTREW18*	17.4	2	29.7	30.0	—	—
4	WSC048EW	BAYHTREW06*	6.0	1	16.7	20.0	—	—
4	WSC048EW	BAYHTREW12*	12.0	2	23.8	25.0	—	—
4	WSC048EW	BAYHTREW18*	17.4	2	30.3	35.0	—	—
5	WSC060EW	BAYHTRXW06*	6.0	1	18.2	20.0	—	—
5	WSC060EW	BAYHTRXW12*	12.0	2	25.4	30.0	—	—
5	WSC060EW	BAYHTRXW18*	17.4	2	31.9	35.0	—	—
5	WSC060EW	BAYHTRXW23*	23.0	2	38.6	40.0	—	—

(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 models is a Belt Drive Motor.

(b) Dual refrigeration system.

Table 130. Electrical characteristics - compressor motor and condenser motor - 60 cycle - standard efficiency

Unit Model		Compressor Motors							Condenser Fan Motors							
		Tons	Number	No.	Volts	Phase	hp ^(b)	rpm	Amps ^(a)		No.	Volts	Phase	hp	Amps ^(a)	
									RLA	LRA					FLA	LRA
3	T/YSC036E1	1	208-230	1	2.8	3500	15.4	83.0	1	208-230	1	0.33	2.0	6.6		
3	T/YSC036E3	1	208-230	3	2.8	3500	11.5	77.0	1	208-230	1	0.33	2.0	6.6		
3	T/YSC036E4	1	460	3	2.7	3500	5.1	35.0	1	460	1	0.33	1.2	2.5		
3	T/YSC036EW	1	575	3	2.8	3500	4.3	31.0	1	575	1	0.33	0.9	1.3		
4	T/YSC048E1	1	208-230	1	3.6	3500	20.5	109.0	1	208-230	1	0.33	2.0	6.6		
4	T/YSC048E3	1	208-230	3	3.6	3500	14.6	91.0	1	208-230	1	0.33	2.0	6.6		
4	T/YSC048E4	1	460	3	3.6	3500	7.1	46.0	1	460	1	0.33	1.2	2.5		
4	T/YSC048EW	1	575	3	3.5	3500	5.1	34.0	1	575	1	0.33	0.9	1.3		
5	T/YSC060E1	1	208-230	1	4.4	3500	26.9	145.0	1	208-230	1	0.40	2.5	6.6		
5	T/YSC060E3	1	208-230	3	4.3	3500	17.6	123.0	1	208-230	1	0.40	2.5	6.6		
5	T/YSC060E4	1	460	3	4.3	3500	9.6	62.0	1	460	1	0.40	1.0	2.8		
5	T/YSC060EW	1	575	3	4.3	3500	6.1	40.0	1	575	1	0.40	0.8	2.0		
6	T/YSC072E3	1	208-230	3	5.6	3500	22.4	149.0	1	208-230	1	.70	3.5	10.9		
6	T/YSC072E4	1	460	3	5.6	3500	10.6	75.0	1	460	1	.70	2.4	6.6		
6	T/YSC072EW	1	575	3	5.6	3500	7.7	54.0	1	575	1	.70	1.4	3.60		
7½	T/YSC092E3	2	208-230	3	3.7/3.1	3500/3500	11.9/10.2	91.0/88.0	1	208-230	1	.70	3.5	10.9		
7½	T/YSC092E4	2	460	3	3.7/3.1	3500/3500	7.1/7.1	46.0/46.0	1	460	1	.70	2.4	6.6		
7½	T/YSC092EW	2	575	3	3.7/3.1	3500/3500	5.6/5.0	34.0/34.0	1	575	1	.70	1.4	3.60		

continued on next page

Electrical Data

Table 130. Electrical characteristics - compressor motor and condenser motor - 60 cycle - standard efficiency (continued)

Unit Model		Compressor Motors							Condenser Fan Motors					
		No.	Volts	Phase	hp ^(b)	rpm	Amps ^(a)		No.	Volts	Phase	hp	Amps ^(a)	
							RLA	LRA					FLA	LRA
8½	T/YSC102E3	2	208-230	3	3.7/3.7	3500/3500	16/16	91.0/96.0	1	208-230	1	.75	4.0	9.4
8½	T/YSC102E4	2	460	3	3.7/3.7	3500/3500	7.1/7.1	46.0/46.0	1	460	1	.75	2.8	6.8
8½	T/YSC102EW	2	575	3	3.7/3.7	3500/3500	5.6/5.6	37.0/37.0	1	575	1	.75	2.4	6.2
10	T/YSC120E3	2	208-230	3	4.8/3.7	3500/3500	20.5/16.9	155.0/91.0	1	208-230	1	.75	4.0	9.4
10	T/YSC120E4	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/YSC120EW	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
3	WSC036E1	1	208-230	1	3.2	3500	18.6	105.0	1	208-230	1	0.25	2.0	4.4
3	WSC036E3	1	208-230	3	3.2	3500	13.5	88.0	1	208-230	1	0.25	2.0	4.4
3	WSC036E4	1	460	3	3.2	3500	6.4	39.0	1	460	1	0.25	0.9	2.2
3	WSC036EW	1	575	3	3.2	3500	5.1	34.0	1	575	1	0.25	0.7	1.4
4	WSC048E1	1	208-230	1	3.8	3500	23.1	134.0	1	208-230	1	0.40	2.5	6.6
4	WSC048E3	1	208-230	3	3.8	3500	16.0	91.0	1	208-230	1	0.40	2.5	6.6
4	WSC048E4	1	460	3	3.8	3500	7.1	46.0	1	460	1	0.40	1.0	2.8
4	WSC048EW	1	575	3	3.8	3500	5.6	37.0	1	575	1	0.40	0.8	2.0
5	WSC060E1	1	208-230	1	4.8	3500	27.6	158.0	1	208-230	1	0.40	2.5	6.6
5	WSC060E3	1	208-230	3	4.7	3500	18.1	137.0	1	208-230	1	0.40	2.5	6.6
5	WSC060E4	1	460	3	4.7	3500	9.0	62.0	1	460	1	0.40	1.0	2.8
5	WSC060EW	1	575	3	4.7	3500	6.8	50.0	1	575	1	0.40	0.8	2.0

(a) Amp draw for each motor; multiply value by number of motors to determine total amps.

(b) hp for each compressor.

Table 131. Electrical characteristics - standard evaporator fan motor - 60 cycle - direct or belt drive standard efficiency

Unit Model		Direct or Belt Drive						Amps	
				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/YSC072E3	Belt Drive		1	208-230	3	1.00	5.00	32.20
6	T/YSC072E4	Belt Drive		1	460	3	1.00	2.50	16.10
6	T/YSC072EW	Belt Drive		1	575	3	1.00	1.70	13.20
7½	T/YSC092E3	Belt Drive		1	208-230	3	2.00	6.30	48.00
7½	T/YSC092E4	Belt Drive		1	460	3	2.00	3.10	24.00

continued on next page

Electrical Data

Table 131. Electrical characteristics - standard evaporator fan motor - 60 cycle - direct or belt drive standard efficiency (continued)

Tons	Unit Model Number	Direct or Belt Drive	No.	Volts	Phase	hp	Amps	
							FLA	LRA
7½	T/YSC092EW	Belt Drive	1	575	3	2.00	2.50	18.20
8½	T/YSC102E3	Belt Drive	1	208-230	3	2.00	6.30	48.00
8½	T/YSC102E4	Belt Drive	1	460	3	2.00	3.10	24.00
8½	T/YSC102EW	Belt Drive	1	575	3	2.00	2.50	18.20
10	T/YSC120E3	Belt Drive	1	208-230	3	3.00	9.40	83.00
10	T/YSC120E4	Belt Drive	1	460	3	3.00	4.60	42.00
10	T/YSC120EW	Belt Drive	1	575	3	3.00	3.70	31.00
3	WSC036E1	Direct Drive	1	208-230	1	0.75	6.0	—
3	WSC036E3	Belt Drive	1	208-230	3	1.00	5.0	32.2
3	WSC036E4	Belt Drive	1	460	3	1.00	2.5	16.1
3	WSC036EW	Belt Drive	1	575	3	1.00	1.7	13.2
4	WSC048E1	Direct Drive	1	208-230	1	1.00	7.6	—
4	WSC048E3	Belt Drive	1	208-230	3	1.00	5.0	32.2
4	WSC048E4	Belt Drive	1	460	3	1.00	2.5	16.1
4	WSC048EW	Belt Drive	1	575	3	1.00	1.7	13.2
5	WSC060E1	Direct Drive	1	208-230	1	1.00	7.6	—
5	WSC060E3	Belt Drive	1	208-230	3	1.00	5.0	32.2
5	WSC060E4	Belt Drive	1	460	3	1.00	2.5	16.1
5	WSC060EW	Belt Drive	1	575	3	1.00	1.7	13.2

Table 132. Electrical characteristics - oversized evaporator fan motor - 60 cycle - belt drive - standard efficiency

Tons	Unit Model Number	No.	Volts	Phase	hp	Amps	
						FLA	LRA
6	T/YSC072E3	1	208-230	3	2.00	6.30	48.00
	T/YSC072E4	1	460	3	2.00	3.10	24.00
	T/YSC072EW	1	575	3	2.00	2.50	18.20
7½	T/YSC092E3	1	208-230	3	3.00	9.40	83.00
	T/YSC092E4	1	460	3	3.00	4.60	42.00
	T/YSC092EW	1	575	3	3.00	3.70	31.00
8½	T/YSC102E3	1	208-230	3	3.00	9.40	83.00
	T/YSC102E4	1	460	3	3.00	4.60	42.00
	T/YSC102EW	1	575	3	3.00	3.70	31.00
10	T/YSC120E3	1	208-230	3	5.00	13.40	112.00
	T/YSC120E4	1	460	3	5.00	6.60	56.00
	T/YSC120EW	1	575	3	5.00	5.40	44.00

Table 133. Electrical characteristics — power exhaust (cooling and gas/electric)

Tons	Volts	Phase	hp	rpm ^(a)	FLA	LRA
6-10	208-230	1	0.87	1075	5.7	16.3
6-10	460	1	0.87	1075	3.3	6.8
6-10	575	1	0.87	1075	2.3	5.4

(a) Two speed.



Electrical Data

Table 134. 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
YSC072E**(L,M,X,Y) YSC(092,102)E**(L,X)	1	1/35	3000	208-230	1	0.6
YSC072E**(H,Z) YSC(092,102)E**(M,H,Y,Z) YSC120E**(L,M,H,X,Y,Z)	2	1/15	2800/3350	208-230	1	0.5
YSC(036-060)E**(H,Z)	1	1/15	3300	208-230	1	0.4

Table 135. Unit wiring - high efficiency

Tons	Unit Model Number	Voltage Range	Standard Indoor Fan Motor		Optional Belt Drive Indoor Fan Motor ^(a)	
			MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
3	T/YHC036E1	187-253	26.7	40	(a)	(a)
	T/YHC036E3	187-253	21.9	30	20.9	30
	T/YHC036E4	414-506	10.0	15	9.5	15
4	T/YHC048E1	187-253	35.7	50	(a)	(a)
	T/YHC048E3	187-253	28.3	40	25.7	40
	T/YHC048E4	414-506	13.6	20	12.3	15
5	T/YHC060E1	187-253	43.8	70	(a)	(a)
	T/YHC060E3	187-253	32.1	45	29.5	45
	T/YHC060E4	414-506	16.8	25	15.5	25

(a) No optional motors available for 3-5 tons. The standard motor for the 1-phase models is a Multispeed Direct Drive Motor.

Table 136. Unit wiring with electric heat (single point connection) - high efficiency

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	40.0/40.0	—	—
3	THC036E1	BAYHTRE110*	7.5/10.0	2	52.6/59.6	60.0/60.0	—	—
3	THC036E1	BAYHTRE114*	10.4/13.8	2	69.8/79.4	70.0/80.0	—	—
4	THC048E1	BAYHTRX105*	3.8/5.0	1	35.7/35.7	50.0/50.0	—	—
4	THC048E1	BAYHTRX110*	7.5/10.0	2	54.6/61.6	60.0/70.0	—	—
4	THC048E1	BAYHTRX114*	10.4/13.8	2	71.8/81.4	80.0/90.0	—	—
4	THC048E1	BAYHTRX118*	13.2/17.6	2	89.0/101.1	90.0/110.0	—	—
5	THC060E1	BAYHTRX105*	3.8/5.0	1	43.8/43.8	70.0/70.0	—	—
5	THC060E1	BAYHTRX110*	7.5/10.0	2	54.6/61.6	70.0/70.0	—	—
5	THC060E1	BAYHTRX114*	10.4/13.8	2	71.8/81.4	80.0/90.0	—	—
5	THC060E1	BAYHTRX118*	13.2/17.6	2	89.0/101.1	90.0/110.0	—	—

continued on next page

Electrical Data

Table 136. Unit wiring with electric heat (single point connection) - high efficiency (continued)

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 Three Phase								
3	THC036E3	BAYHTRE306*	4.5/6.0	1	23.1/25.5	30.0/30.0	21.9/24.3	30.0/30.0
3	THC036E3	BAYHTRE312*	9.0/12.0	2	38.8/43.6	40.0/45.0	37.5/42.4	40.0/45.0
3	THC036E3	BAYHTRE318*	13.1/17.4	2	52.9/59.9	60.0/60.0	51.6/58.6	60.0/60.0
4	THC048E3	BAYHTRX306*	4.5/6.0	1	28.3/28.3	40.0/40.0	25.7/25.7	40.0/40.0
4	THC048E3	BAYHTRX312*	9.0/12.0	2	40.8/45.6	45.0/50.0	37.5/42.4	40.0/45.0
4	THC048E3	BAYHTRX318*	13.1/17.4	2	54.9/61.9	60.0/70.0	51.6/58.6	60.0/60.0
5	THC060E3	BAYHTRX306*	4.5/6.0	1	32.1/32.1	45.0/45.0	29.5/29.5	45.0/45.0
5	THC060E3	BAYHTRX312*	9.0/12.0	2	40.8/45.6	45.0/50.0	37.5/42.4	45.0/45.0
5	THC060E3	BAYHTRX318*	13.1/17.4	2	54.9/61.9	60.0/70.0	51.6/58.6	60.0/60.0
5	THC060E3	BAYHTRX323*	17.3/23.0	2	69.5/78.6	70.0/80.0	66.3/75.4	70.0/80.0
460 Volts Three Phase								
3	THC036E4	BAYHTRE406*	6.0	1	12.8	15.0	12.1	15.0
3	THC036E4	BAYHTRE412*	12.0	2	21.8	25.0	21.1	25.0
3	THC036E4	BAYHTRE418*	17.4	2	29.9	30.0	29.3	30.0
4	THC048E4	BAYHTRX406*	6.0	1	13.8	20.0	12.3	15.0
4	THC048E4	BAYHTRX412*	12.0	2	22.8	25.0	21.1	25.0
4	THC048E4	BAYHTRX418*	17.4	2	30.9	35.0	29.3	30.0
5	THC060E4	BAYHTRX406*	6.0	1	16.8	25.0	15.5	25.0
5	THC060E4	BAYHTRX412*	12.0	2	22.8	25.0	21.1	25.0
5	THC060E4	BAYHTRX418*	17.4	2	30.9	35.0	29.3	30.0
5	THC060E4	BAYHTRX423*	23.0	2	39.4	40.0	37.8	40.0

(a) Heater kW ratings are at 208/240V for 208/230V units, 480V for 460V units.

Table 137. Electrical characteristics - compressor motor and condenser fan motor - 60 cycle - high efficiency

Tons	Unit Model		Compressor Motors							Condenser Fan Motors				
	Number	No.	Volts	Phase	hp	rpm	RLA	LRA	No.	Volts	Phase	hp	FLA	LRA
3	T/YHC036E1	1	208-230	1	2.8	3500	15.4	83.0	1	208-230	1	0.20	1.5	2.4
	T/YHC036E3	1	208-230	3	2.8	3500	11.5	77.0	1	208-230	1	0.20	1.5	2.4
	T/YHC036E4	1	460	3	2.7	3500	5.1	35.0	1	460	1	0.20	0.6	1.3
4	T/YHC048E1	1	208-230	1	3.6	3500	20.5	109.0	1	208-230	1	0.40	2.5	6.6
	T/YHC048E3	1	208-230	3	3.6	3500	14.6	91.0	1	208-230	1	0.40	2.5	6.6
	T/YHC048E4	1	460	3	3.6	3500	7.1	46.0	1	460	1	0.40	1.0	2.8
5	T/YHC060E1	1	208-230	1	4.4	3500	26.9	145.0	1	208-230	1	0.40	2.5	6.6
	T/YHC060E3	1	208-230	3	4.3	3500	17.6	123.0	1	208-230	1	0.40	2.5	6.6
	T/YHC060E4	1	460	3	4.3	3500	9.6	62.0	1	460	1	0.40	1.0	2.8

Electrical Data

Table 138. Electrical characteristics - evaporator fan motor - 60 cycle - direct drive - high efficiency

Unit Model		Volts	Hz.	Phase	No.	FLA	LRA	bhp
Tons	Number							
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	6.0	—	0.75
4	T/YHC048E1	208-230	60	1	1	7.6	—	1.00
4	T/YHC048E3	208-230	60	1	1	7.6	—	1.00
4	T/YHC048E4	460	60	1	1	7.6	—	1.00
5	T/YHC060E1	208-230	60	1	1	7.6	—	1.00
5	T/YHC060E3	208-230	60	1	1	7.6	—	1.00
5	T/YHC060E4	460	60	1	1	7.6	—	1.00

Table 139. Electrical characteristics - evaporator fan motor - 60 cycle - optional belt drive - high efficiency

Unit Model		Volts	Hz.	Phase	No.	FLA	LRA	bhp
Tons	Number							
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
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
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

Table 140. Electrical characteristics - power exhaust (cooling and gas/electric)

Tons	Volts	Phase	hp	rpm ^(a)	FLA	LRA
6-10	208-230	1	0.87	1075	5.7	16.3
6-10	460	1	0.87	1075	3.3	6.8
6-10	575	1	0.87	1075	2.3	5.4

(a) Two Speed.

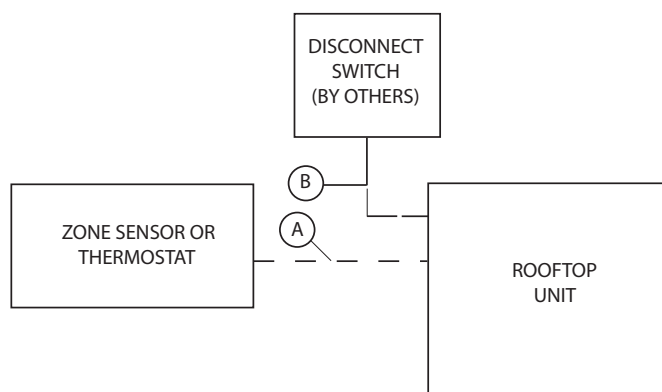
Table 141. Electrical characteristics - inducer motor

Unit Model Number	Stages	hp	rpm	Volts	Phase	LRA
YHC036E(L,M,X,Y) YHC(048,060)E	1	1/35	3000	208-230	1	0.6
YHC036E(H,Z)	1	1/15	3300	208-230	1	0.4

Jobsite Connections

Table 142. 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 3. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric; 3 tons high efficiency; heat pump - 3-4 tons standard 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.)

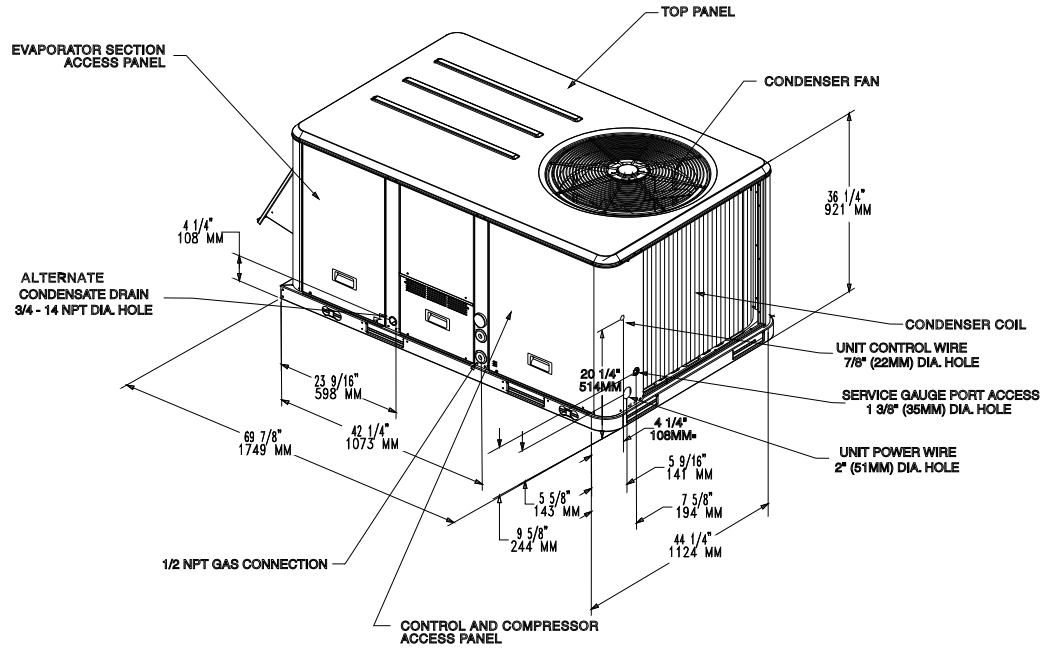


Figure 4. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - downflow airflow supply/return - through the base utilities

Note: All dimensions are in inches/millimeters.

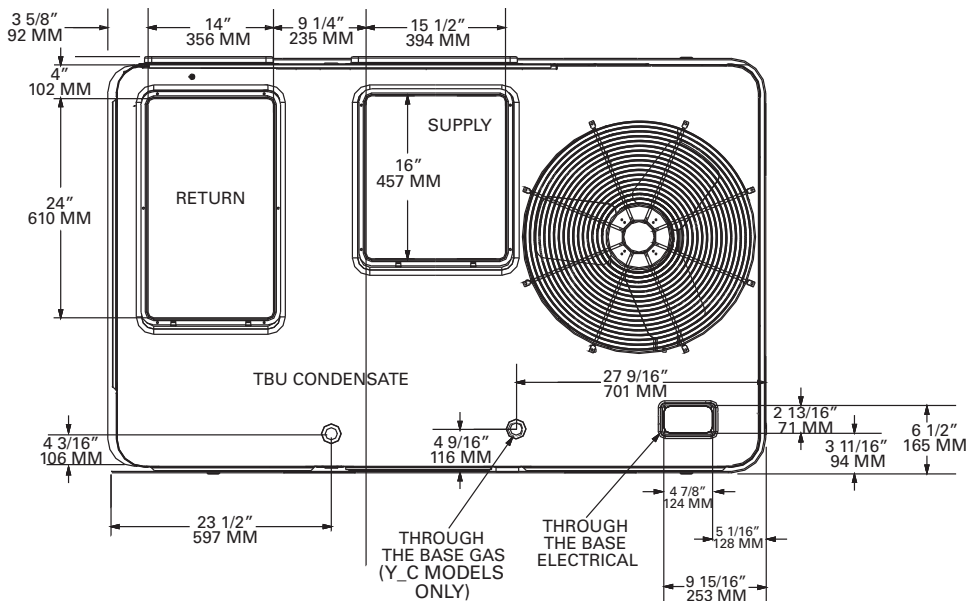


Figure 5. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - horizontal airflow supply/return

Note: All dimensions are in inches/millimeters.

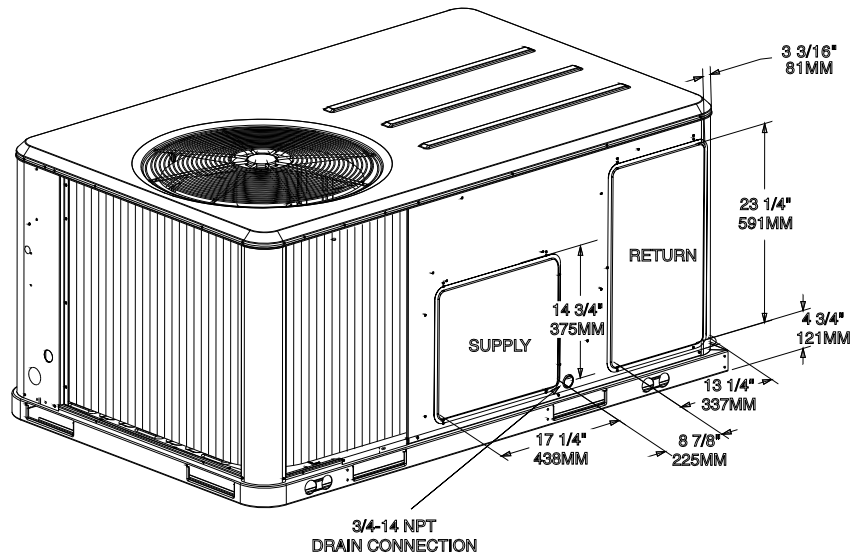
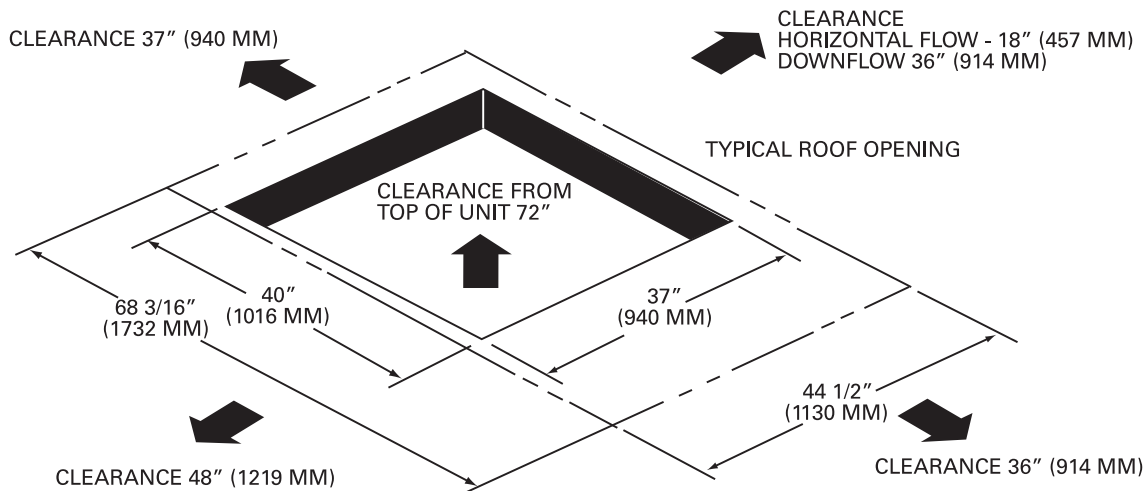


Figure 6. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - unit clearance and roof opening

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 7. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - roof curb

Note: All dimensions are in inches/millimeters.

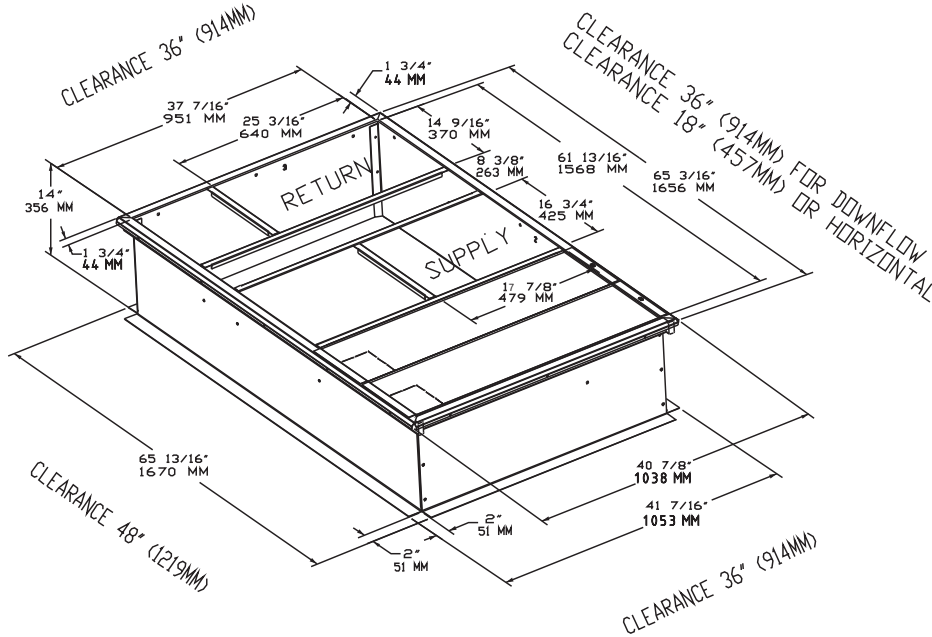
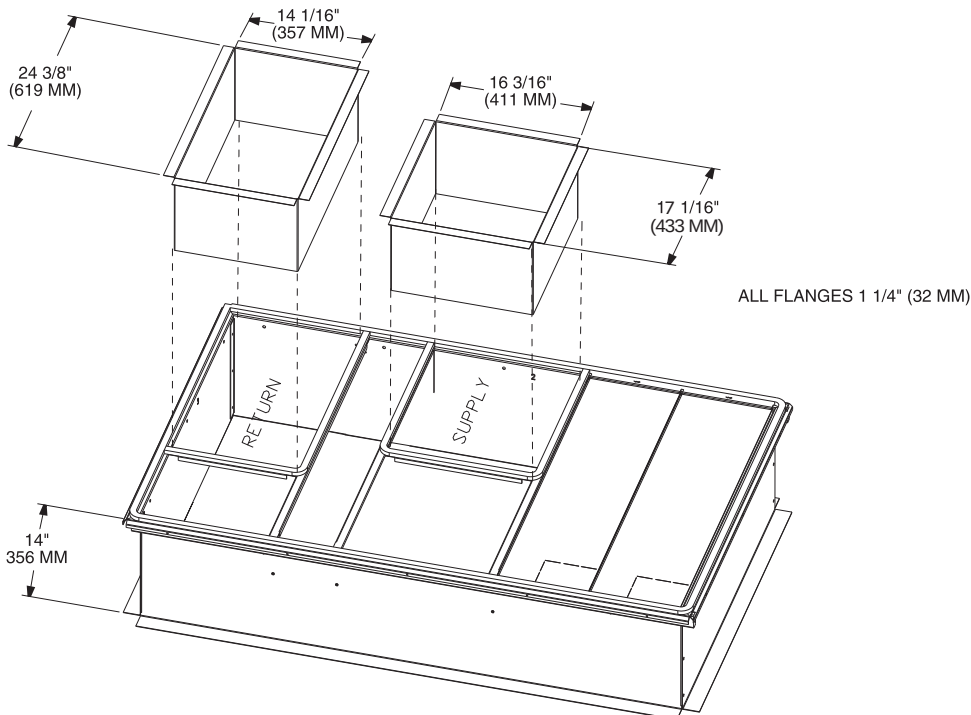


Figure 8. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - downflow duct connections - field fabricated

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 9. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - economizer, manual or motorized fresh air damper

Note: All dimensions are in inches/millimeters.

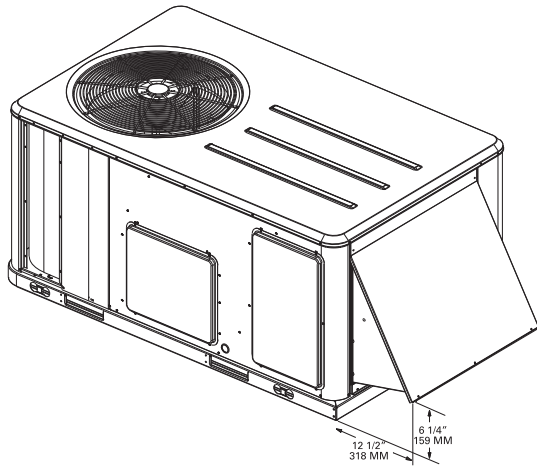


Figure 10. Cooling and gas/electric models - 3-5 tons standard efficiency; cooling and gas/electric models - 3 tons high efficiency; heat pump - 3-4 tons standard efficiency - swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.

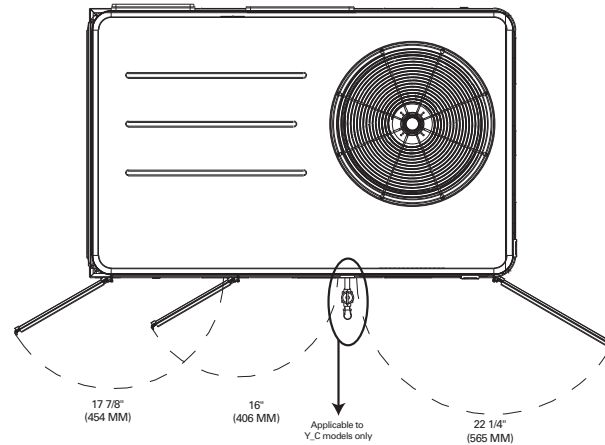


Figure 11. Cooling and gas/electric - 3-5 tons standard efficiency; cooling and gas/electric - 3 tons high efficiency; heat pump 3-4 tons standard efficiency - economizer & barometric relief damper hood

Note: All dimensions are in inches/millimeters.

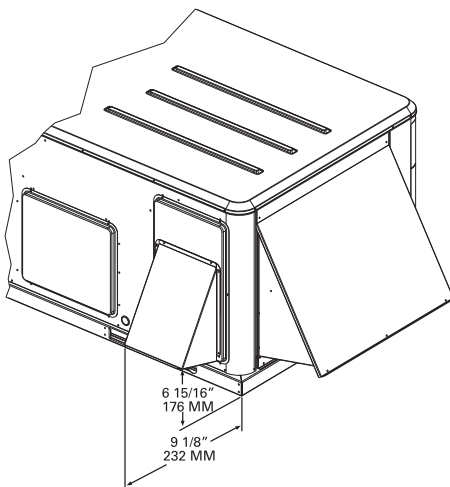
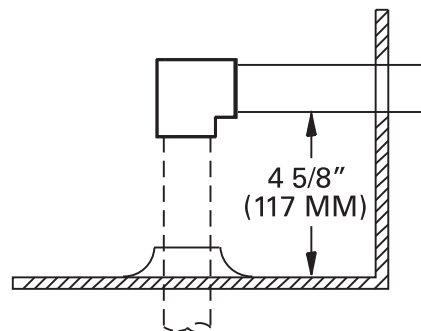
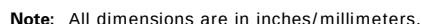


Figure 12. Gas/electric models - 3-5 tons standard efficiency; 3 tons high efficiency height of gas pipe required from inside base of unit to gas shut off assembly (factory provided) - Y_C models only

Note: All dimensions are in inches/millimeters.



Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 15. Cooling and gas/electric 4-5 tons high efficiency; cooling and gas/electric 6 tons standard efficiency; heat pumps - 5 tons - horizontal airflow supply and return

Note: All dimensions are in inches/millimeters.

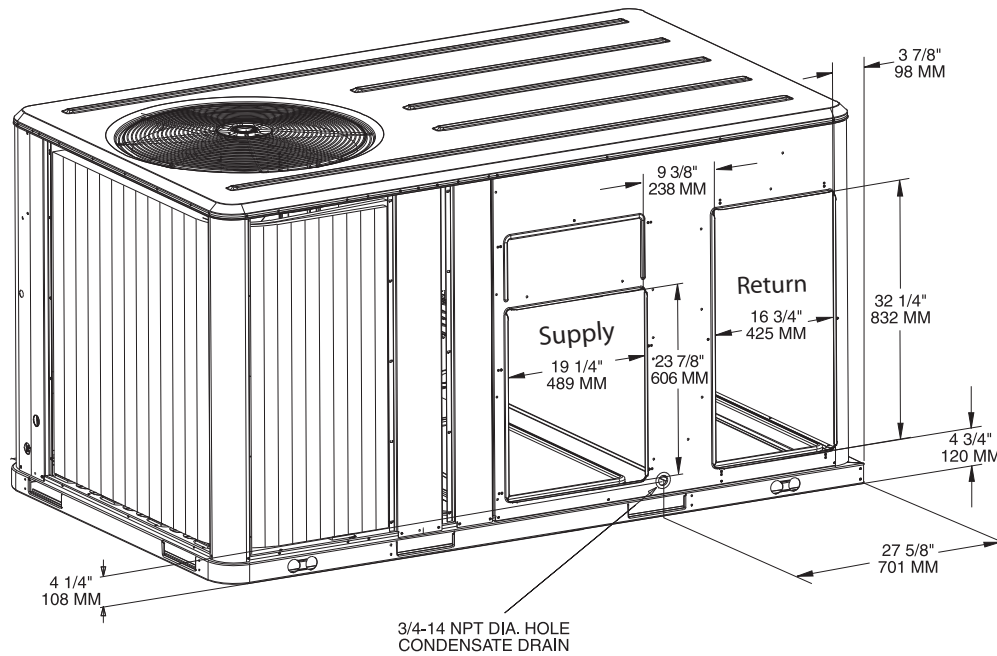
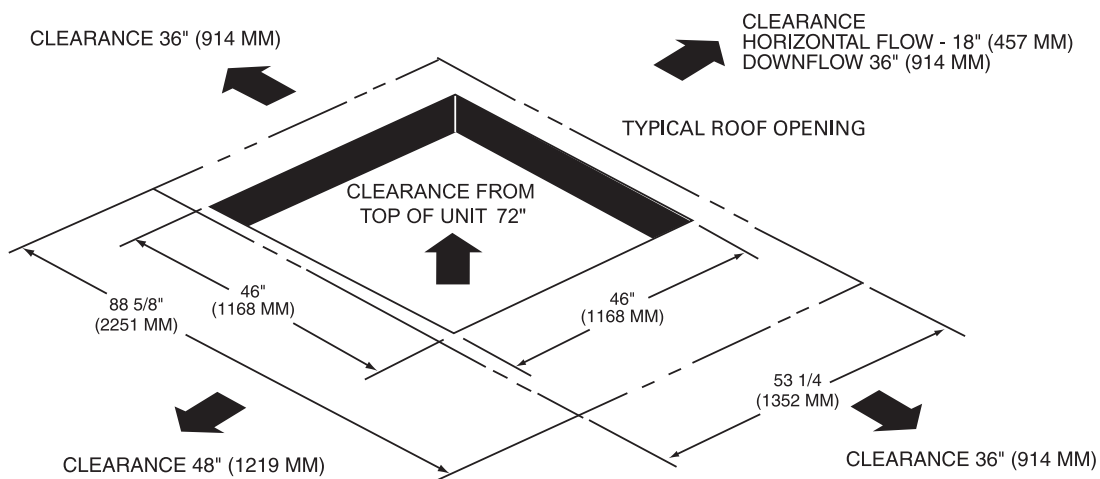


Figure 16. Cooling and gas/electric 4-5 tons high efficiency; cooling and gas/electric - 6 tons standard efficiency; heat pumps - 5 tons - unit clearance and roof opening

Note: All dimensions are in inches/millimeters.



Note: All dimensions are in inches/millimeters.

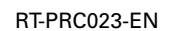
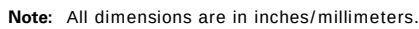


Figure 19. Cooling and gas/electric 4-5 tons high efficiency; cooling and gas/electric - 6 tons standard efficiency; heat pumps - 5 tons - economizer, manual or motorized fresh air damper

Note: All dimensions are in inches/millimeters.

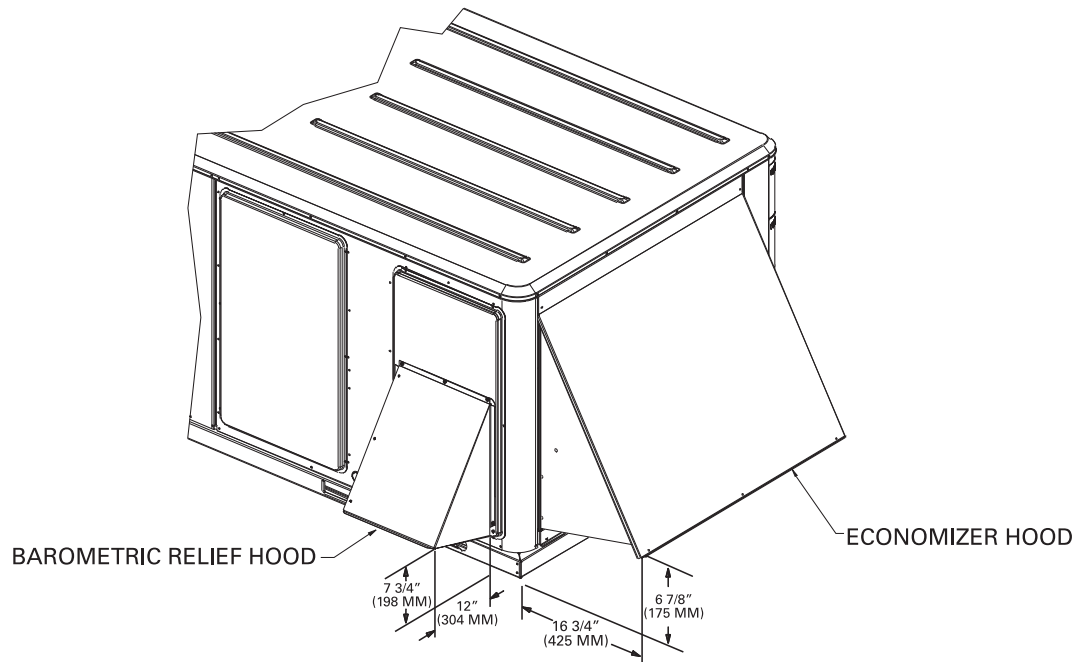
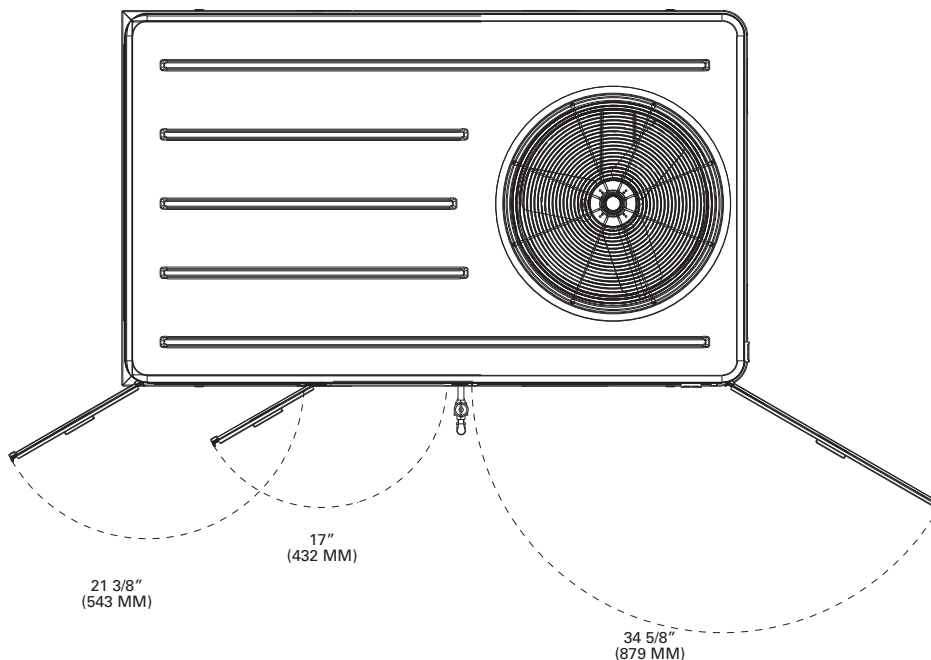


Figure 20. Cooling and gas/electric 4-5 tons high efficiency; cooling and gas/electric 6 tons standard efficiency; heat pumps - 5 tons - swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 21. Cooling and gas/electric models - 7½, 8½ and 10 tons standard efficiency

Note: All dimensions are in inches/millimeters.

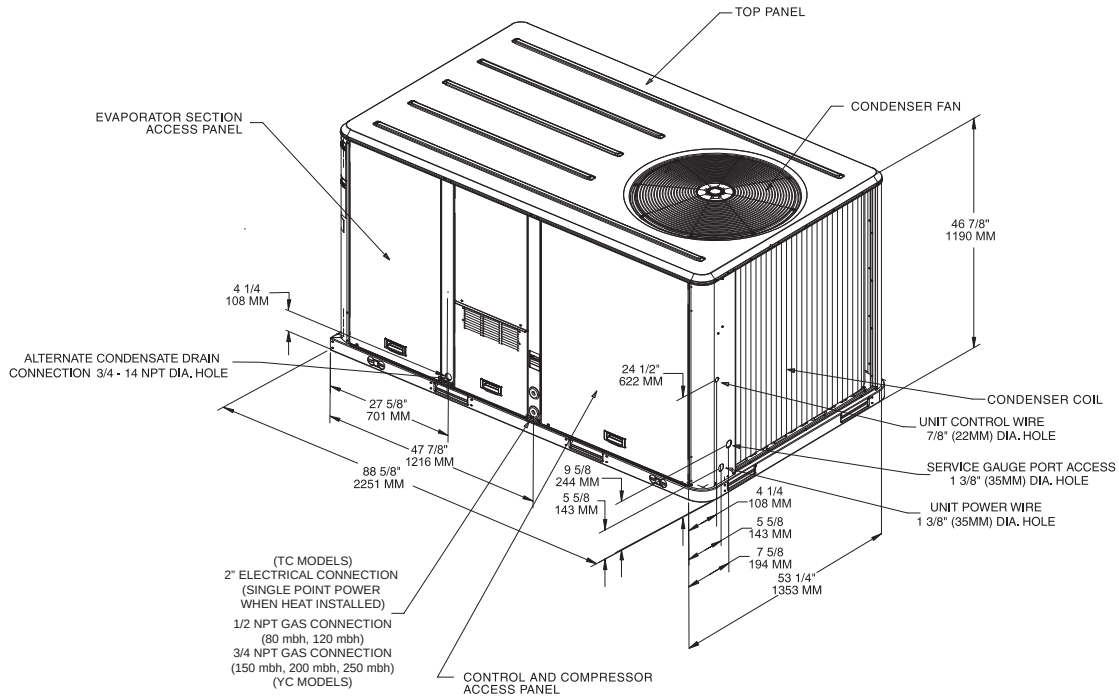


Figure 22. Cooling and gas/electric - 7½-10 tons standard efficiency - downflow airflow supply/return through the base utilities

Note: All dimensions are in inches/millimeters.

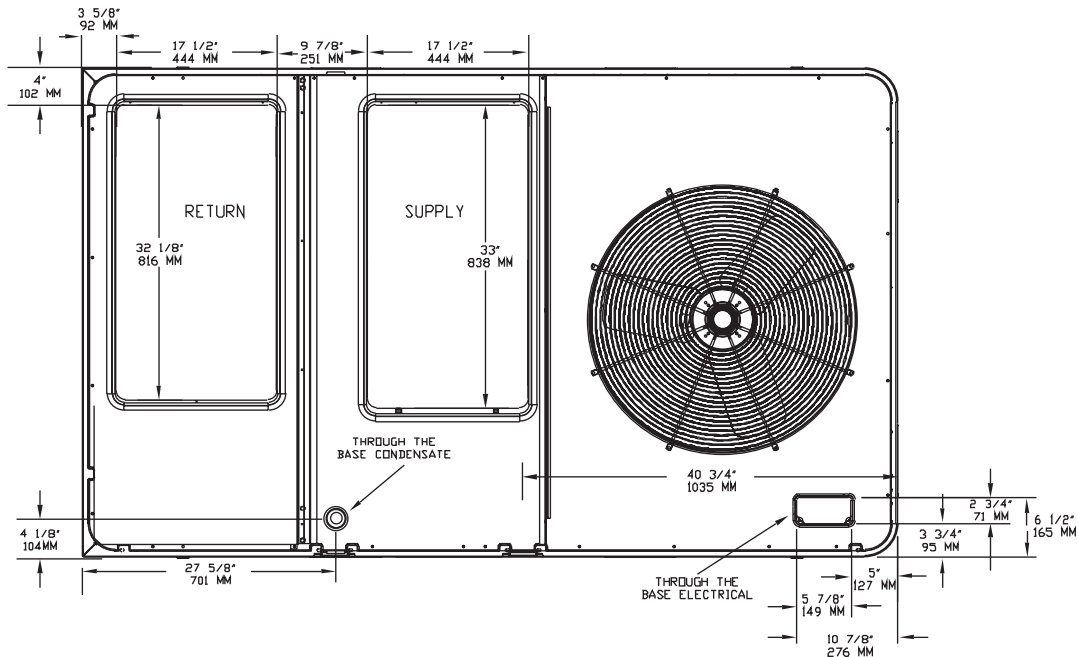


Figure 23. Cooling and gas/electric - 7½-10 tons standard efficiency - horizontal airflow supply and return

Note: All dimensions are in inches/millimeters.

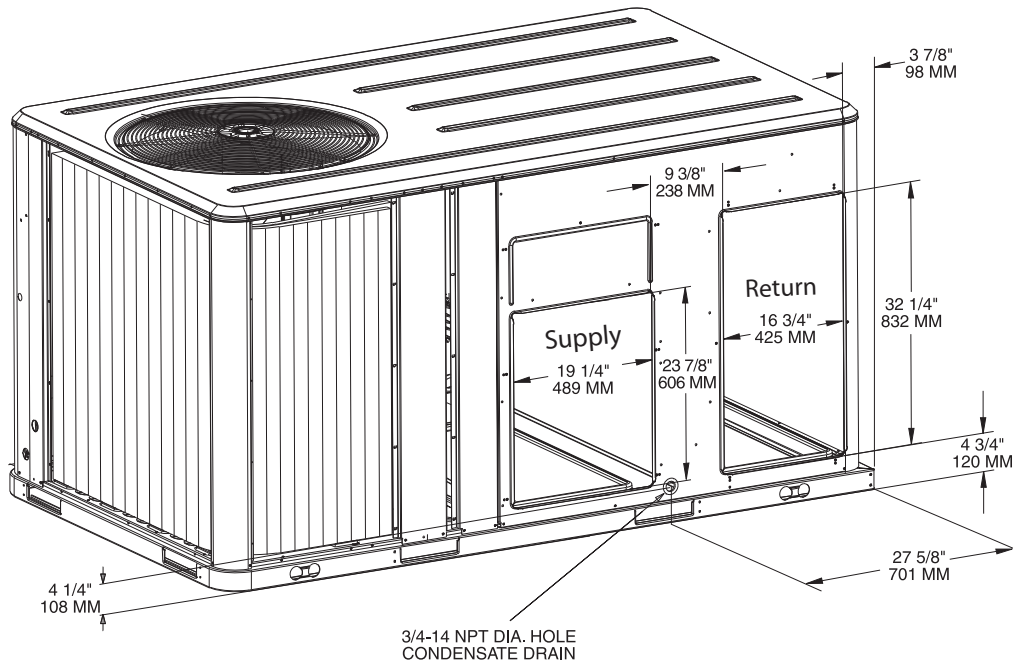
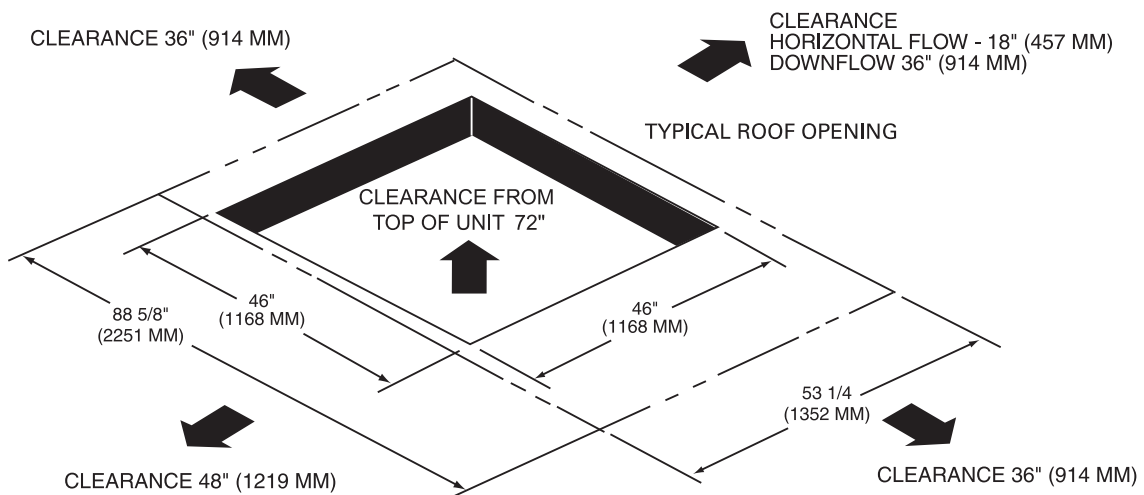


Figure 24. Cooling and gas/electric - 6-10 tons standard efficiency - unit clearance and roof opening

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 25. Cooling and gas/electric - 7½-10 tons standard efficiency - roof curb

Note: All dimensions are in inches/millimeters.

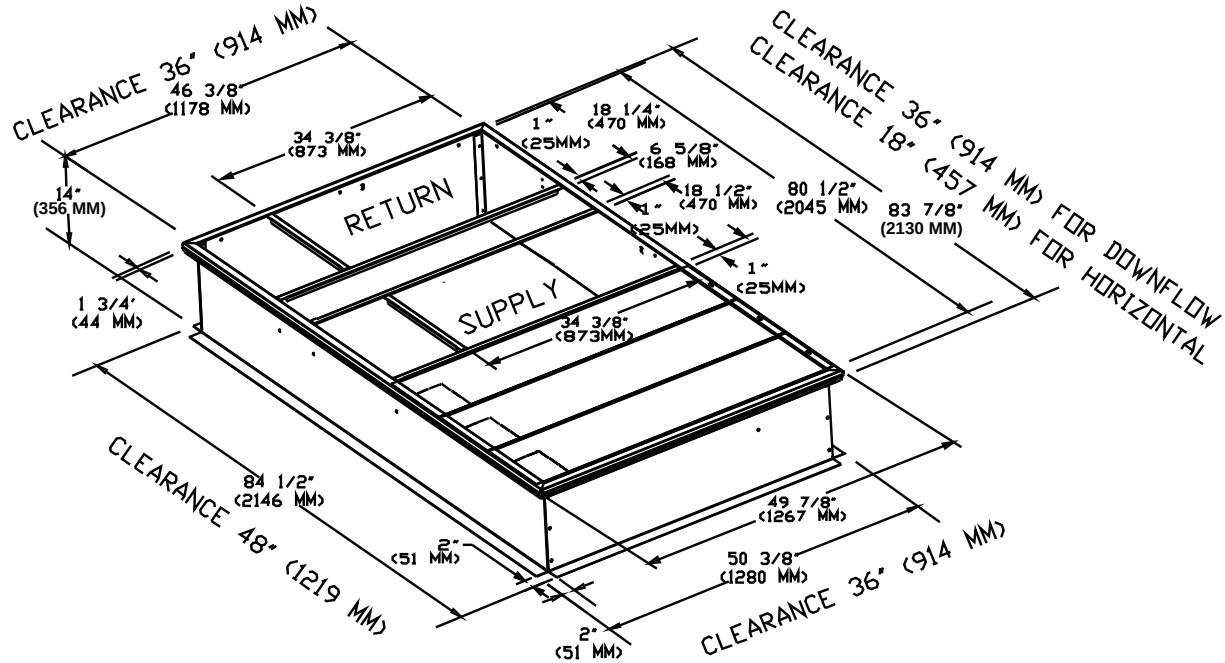


Figure 26. Cooling and gas/electric - 7½-10 tons standard efficiency downflow - duct connections field fabricated

Note: All dimensions are in inches/millimeters.

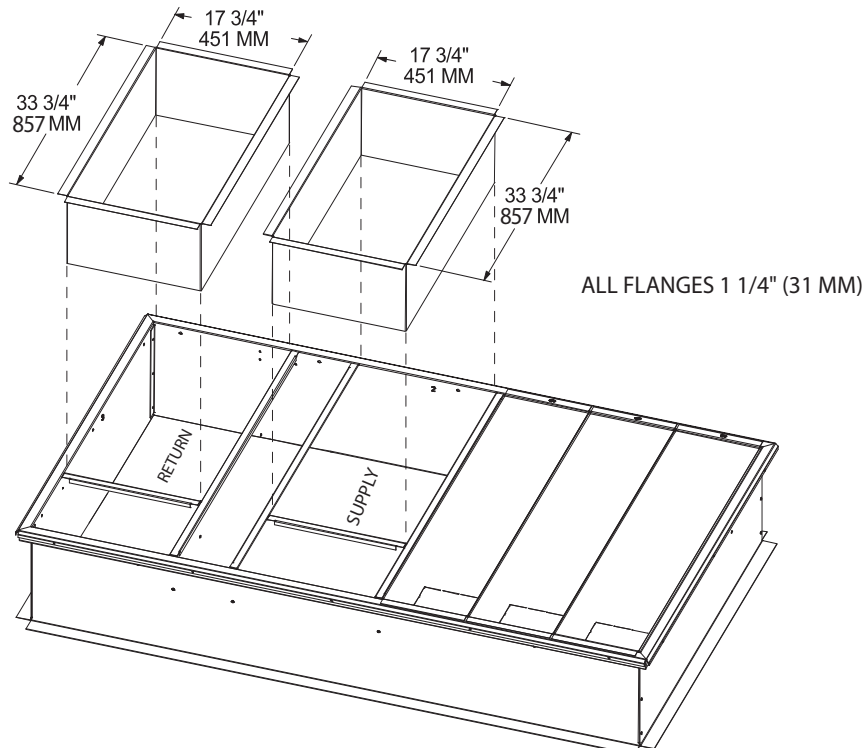


Figure 27. Cooling and gas/electric - 7½-10 tons standard efficiency - power exhaust

Note: All dimensions are in inches/millimeters.

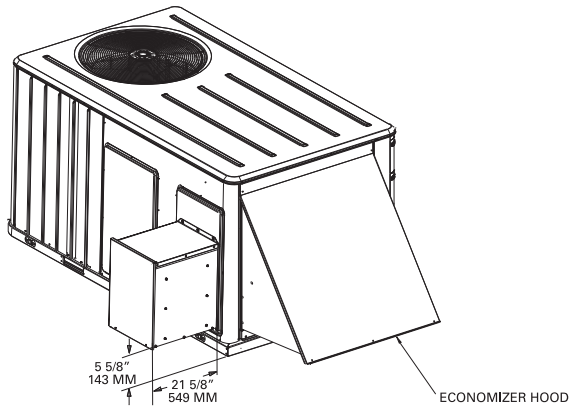


Figure 28. Cooling and gas/electric models - 7½-10 tons standard efficiency - swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.

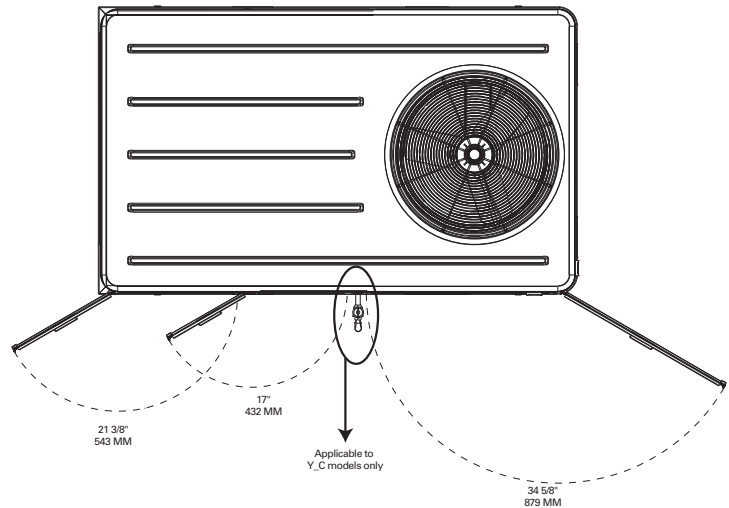


Figure 29. Cooling and gas/electric - 7½-10 tons standard efficiency - economizer, manual or motorized fresh air damper

Note: All dimensions are in inches/millimeters.

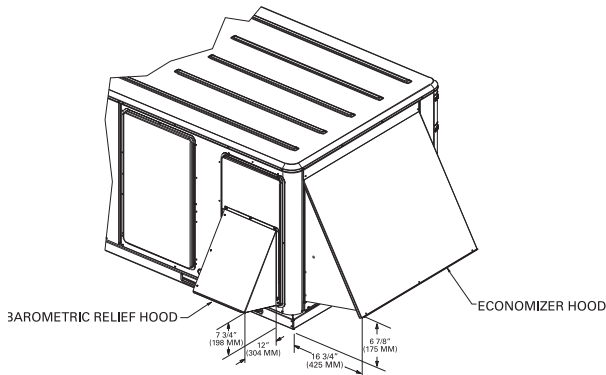
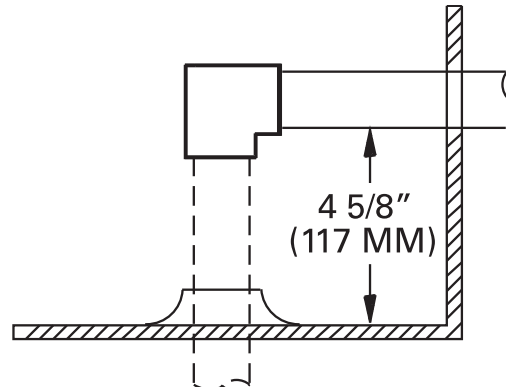


Figure 30. Gas/electric - 7½-10 tons standard efficiency - height of gas pipe required from inside base of unit to gas shut off assembly (factory provided) - Y_C models only

Note: All dimensions are in inches/millimeters.



Weights

Table 143. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.)

Tons	Unit Model No.	Maximum Model Weights ^(a)		Corner Weights ^(b)				Center of Gravity (in.)	
		Shipping	Net	A	B	C	D	Length	Width
3	TSC036E1,3,4,W	555	480	157	122	95	107	31	19
3	YSC036E1,3,4,W	607	532	165	137	95	134	31	19
3	WSC036E1,3,4,W	589	514	177	107	113	117	29	20
4	TSC048E1,3,4,W	586	511	167	129	101	114	31	19
4	YSC048E1,3,4,W	638	563	175	145	101	142	31	19
4	WSC048E1,3,4,W	600	525	181	109	115	119	29	20
5	TSC060E1,3,4,W	636	561	183	142	111	125	31	19
5	YSC060E1,3,4,W	688	613	190	158	110	155	31	19
5	WSC060E1,3,4,W	825	682	228	177	114	163	38	24
6	TSC072E	898	755	295	136	209	115	40	23
6	YSC072E	936	793	304	146	219	124	41	23
7½	TSC092E	1009	866	358	147	252	109	41	22
7½	YSC092E	1059	916	370	160	265	121	41	22
8½	TSC102E	1048	905	359	161	265	120	42	23
8½	YSC102E	1096	953	371	173	277	132	42	23
10	TSC120E	1111	968	388	171	267	142	40	23
10	YSC120E	1173	1030	403	187	283	157	41	23

(a) Weights are approximate.

(b) Corner weights are given for information only.

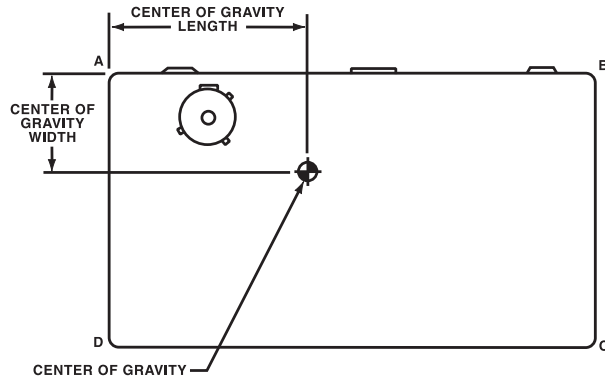


Table 144. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.)

Tons	Unit Model No.	Maximum Model Weights ^(a)		Corner Weights ^(b)				Center of Gravity (in.)	
		Shipping	Net	A	B	C	D	Length	Width
3	THC036E1,3,4	566	472	109	85	186	92	40	26
	YHC036E1,3,4	637	544	127	103	204	110	39	26
4	THC048E1,3,4	798	653	155	127	248	123	40	25
	YHC048E1,3,4	869	725	173	145	266	141	40	25
5	THC060E1,3,4	823	676	204	74	327	71	41	26
	YHC060E1,3,4	894	748	222	92	345	89	41	26

(a) Weights are approximate.

(b) Corner weights are given for information only.

Table 145. Factory installed options (fiops)/accessory net weights (lbs)^{(a),(b)}

Accessory	T/YHC	T/YHC	T/YSC	WSC***E	
	Net Weight	Net Weight	Net Weight	Net Weight	
	3 Tons	4-5 Tons	6-10 Tons	3-4 Tons	5 Tons
460 V IDM Transformer ^(c)	29	29	—	29	29
Barometric Relief	7	10	10	7	10
Belt Drive Option	38	—	—	38	—
Coil Guards	12	20	20	12	20
Economizer	26	36	36	26	36
Electric Heaters ^(d)	15	30	15	15	30
Hinged Doors	10	12	12	10	12
Manual Outside Air Damper	16	26	26	16	26
Motorized Outside Air Damper	20	30	30	20	30
Novar Control	8	5	8	5	5
Oversized Motor	—	8	8	5	8
Powered Convenience Outlet	38	38	38	38	38
Powered Exhaust	—	—	80	—	—
Roof Curb	70	115	115	70	115
Smoke Detector, Supply	5	5	5	5	5
Smoke Detector, Return	7	7	7	7	7
Stainless Steel Heat Exchanger ^(e)	4	—	6	—	—
Through the Base Electrical	8	13	13	8	13
Through the Base Gas	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) Apply weight with all 460V units with the Standard Direct Drive Motor.

(d) Applicable to Cooling and Heat Pump units only.

(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 ARI 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 UL listed and labeled, classified in accordance to UL 1995/CAN/CSA No. 236-M90 for Central Cooling Air Conditioners.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 1000 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.

All standard and high efficiency 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 shall be included on 6-10 ton standard efficiency units.

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 24 volt 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. Coils shall be leak tested at the factory to ensure the pressure integrity. The evaporator

Mechanical Specifications

coil and condenser coil shall be leak tested to 575 psig and pressure tested to 450 psig. The condenser coil shall have a patent pending 1+1+1 hybrid coil designed with slight gaps for ease of cleaning. A removable, reversible, double-sloped condensate drain pan with through the base condensate drain is standard.

Filters

Throwaway filters shall be standard on all units. Optional 2-inch MERV 7 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

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 6-10 ton units 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 indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Outdoor Fans

The outdoor fan shall be direct-drive, statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

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 double-hemmed and gasket-sealed. The ribbed top adds extra strength and prevents water from pooling on unit top.

Factory Installed Options

Black Epoxy Pre-Coated Coils

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.

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.

Mechanical Specifications

The option shall be equipped with crankcase heater(s), low pressure switch(es), Froststat™, and a thermostatic expansion valve(s) (TXV) as standard.

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.

Hinged Access Doors

Sheet metal hinges are available on the Filter/Evaporator, Supply Fan/Heat, and the Compressor/Control Access Doors.

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.

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 and/or Return Air Smoke Detector

With this option, if smoke is detected, all unit operation will be shut down. Reset will be manual at the unit. Return Air Smoke Detectors require minimum allowable airflow when used with certain models. See the Installation, Operation, and Maintenance (IOM) manual for the models affected and the minimum allowable airflow required.

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 UL guidelines, and be agency recognized by UL/CSA.

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 UL/CSA agency recognized.

Note: *The disconnect switch will be sized per NEC and UL 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 7 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 Sensing

This option provides true discharge air sensing in heating models. This sensor is a status indicator readable through Tracer™ or Tracker™. This option is available for microprocessor controlled units.

Economizer

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.

Mechanical Specifications

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 240 volt, wye connected for 480 and 600 V. 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 UL listed or CSA certified.

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.

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 quality coil 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

CO₂ Sensing

The CO₂ sensor shall have the ability to monitor space occupancy levels within the building by measuring the parts per million of CO₂ (Carbon Dioxide) in the air. As the CO₂ levels increase, the outside air damper modulates to meet the CO₂ space ventilation requirements.

Dual Thermistor Remote Zone Sensor

This sensor will allow the customer to reduce the total number of remote sensors to obtain space temperature averaging. This sensor should be utilized with ReliaTel controls.

High Static Drive

The high static drive option shall allow the standard motor to operate with improved external static capabilities.

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.

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.

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.



www.trane.com

For more information, contact your local Trane office or e-mail us at comfort@trane.com

Literature Order Number	RT-PRC023-EN
Date	January 2009
Supersedes	RT-PRC023EN October 2008

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.