

Product Catalog

Packaged Rooftop Air Conditioners Foundation™

Cooling and Gas/Electric 7.5 to 12.5 Tons, 60 Hz







Introduction

Packaged Rooftop Air Conditioners



Through the years, Trane has designed and developed the most complete line of Packaged Rooftop products available in the market today.

Trane customers demanded a product that provided exceptional reliability, was easy to install, and was competitively priced.

Trane listened and is proud to introduce the new Foundation™ Light Commercial rooftop unit. With Foundation, Trane continues to provide the highest standards in quality and reliability, comfort, performance, and ease of installation. light commercial products.

Copyright

This document and the information in it are the property of Trane, and may not be used or reproduced in whole or in part without written permission. Trane reserves the right to revise this publication at any time, and to make changes to its content without obligation to notify any person of such revision or change.

Trademarks

All trademarks referenced in this document are the trademarks of their respective owners.

Revision History

- Updated the Features and Benefits chapter.
- · Updated the Application Consideration chapter.
- Updated the Model Number Description chapter.
- · Updated the General Data chapter.
- Updated the Performance Data chapter.
- Updated the Electrical Data chapter.
- · Updated the Dimensional Data chapter.
- Updated the Weights chapter.
- · Updated the Mechanical Specifications chapter.

©2022 Trane RT-PRC091E-EN



Table of Contents

Features and Benefits	
Standard and Optional Features	
Outstanding Standard Features	
Variety of Options	7
Application Considerations	
Barometric Relief	
Clearance Requirements	
Condensate Trap	10
Unit Pitch	
Selection Procedure	
Cooling Capacity	11
Heating Capacity	
Air Delivery Selection	
Model Number Description	13
General Data	14
Performance Data	
Gross Cooling Capacities	17
Evaporator Fan Performance	21
Controls	40
Economizer Controls	40
Thermostats	40
Electrical Data	41
Jobsite Connections	43
Dimensional Data	44
Weights	48
Mechanical Specifications	49
General	
Standard Features	49
Factory Installed Options	51
Field Installed Options	51



Features and Benefits

Foundation™ has features and benefits that make it first class in the light commercial rooftop market. Designed with input from field contractors and technicians, its convertible airflow and ease of installation are outstanding.

Standard and Optional Features

		Medium Foundation	
		Optio	ns ^(a)
	Standard	Factory Installed	Field Installed
1-year Limited Parts Warranty	×		
5-year Limited Compressor Warranty	Х		
5-year Limited Heat Exchanger Warranty	Х		
10-year Limited Stainless Steel Heat Exchanger Warranty		Х	
Barometric Relief Damper			Х
Belt Drive Motors	Х		
CO ₂ sensor - Demand Control Ventilation (DCV)			Х
Colored Connectors and Wiring	Х		
Compressor Discharge Temperature Limit (DTL)	Х		
Condensate Overflow Switch			Х
Convertible Airflow	Х		
Easy Access Low Voltage Connections	Х		
Economizer (Downflow)			Х
Electric Heaters			Х
Filters	Х		
Fixed Orifice	Х		
Hail/Vandal Guards			Х
High Pressure Control	Х		
High Static Motor Kit(b)		Х	Х
Insulation - 1/2-inch, 1-lb Density	Х		
Liquid Line Refrigerant Drier	Х		
Low Ambient Cooling			Х
Low Leak Economizer			Х
Low Pressure Control	Х		
Low Voltage Circuit Protection	Х		
LP Conversion Kit	Х		
Manual Outside Air Damper			Х
Motorized 2-Position Damper			Х
Phase Loss/Reversal Monitor	Х		
Powered Exhaust			Х
Quick Access Panels	Х		
Remote Potentiometer			Х
Scroll Compressors	Х		

		Medium Foundation	
		Optio	ons ^(a)
	Standard	Factory Installed	Field Installed
Single Point Power	Х		
Single Side Service	Х		
Through-the-base electrical & gas connection provisions	X		

⁽a) Refer to model number description for option availability or contact Product Support.

Outstanding Standard Features

Colored And Numbered Wiring

Save time and money tracing wires and diagnosing the unit.

Compressors

Foundation™ contains the best compressor technology available to achieve the highest possible performance.

Controls - Electromechanical

This 24-volt control includes the control transformer and contactor pressure lugs for power wiring.

Convertible Units

Foundation™ 8.5-12 ton units ship in the downflow configuration. Their convertible design makes it easy to convert them to a horizontal airflow configuration without an additional kit.

Discharge Line Thermostat

The high pressure controls and the discharge line thermostat signals are wired in series and connected to the safety input of the LSD. The compressor contactor coil is connected to the 'CC' terminal of the LSD. If the high pressure control switch or the discharge line thermostat is open, the 24 Vac signal to the SI input of the LSD is interrupted and the compressor contactor coil supply is disabled by the LSD. It has an automatic lockout. The high pressure controls and discharge line thermostats are wired in the system protection detection port. If the high pressure control switch or the discharge line thermostat is open, the main control board will turn off the compressor of the corresponding system. There is no automatic lockout.

Efficiency

Product efficiencies meet the requirements of ASHRAE 90.1 - 2016.

Easy Access Low Voltage Terminal Board

Foundation™ Low Voltage Terminal Board is mounted outside the main electrical control cabinet. It is extremely easy to locate and attach the thermostat control wiring and also test operation of all unit functions. This is another cost and time saving installation feature.

Insulation

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

⁽b) Available on constant volume units only. See Accessories chapter for more information.

^{1.} The 7.5 ton unit requires a conversion kit.

Features and Benefits

Heat Exchanger

The cabinet features a tubular heat exchanger in heat capacities – all available for vertical and horizontal discharge directions. The heat exchanger is fabricated using aluminized steel burners and corrosion-resistant, aluminized steel tubes as standard on all models. As part of the heat exchanger assembly, an induced draft blower is used to pull the gas mixture through the burner tubes. A direct spark ignition system, which doubles as a safety device to prove the flame, is used to ignite the gas mixture.

Locking Safety Device with Anti-Short Cycle Timer

This device monitors compressor safety switch trips to prevent short cycling, protecting the compressor. A manual reset is required after a fourth safety switch trip.

Low Ambient Cooling

All Foundation units have cooling capabilities down to 0°F as standard.

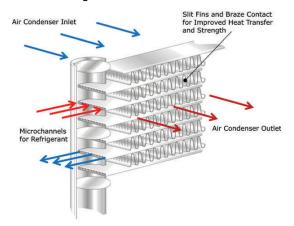
Low Voltage Connections

The wiring of the low voltage connections to the unit and the thermostat is as simple as R-R, G-G, Y-Y, and W-W. This simplified system makes it easy for the installer to wire.

Microchannel Condenser Coil

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

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



Motors

All indoor fan motors are belt drive as standard.

Pressure Cutouts

Low and high pressure cutouts are standard on all Foundation™ models.

Quick-Access Panels

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

Quick-Adjust Fan Motor Mounting Plate

With the quick-adjust slider plate, the belt and sheaves can be quickly adjusted without moving the mounted fan motor. This results in reduced time spent on routine maintenance.

Single Point Power

A single electrical connection powers the unit and all on-board options.

Single Side Service

Single side service is standard on all units.

Sloped Drain Pans

Every Foundation™ unit has a non-corrosive, sloped drain pan made of rigid PVC - standard on all

Variety of Options

Factory Installed Options

Oversized Motors

Multi-speed only – Factory installed oversized motors are available for high static applications.

Field Installed Options

Barometric Relief

Designed to be used on downflow and horizontal configuration for standard and downflow low leak economizer units, barometric relief is an unpowered means of relieving excess building pressure.

Condensate Overflow Switch

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

CO₂ Sensor - Demand Control Ventilation (DCV)

Demand-controlled ventilation (DCV) is a control strategy that responds to the actual demand (need) for ventilation by regulating the rate at which the HVAC system brings outdoor air into the building. A $\rm CO_2$ sensor measures the concentration (parts per million, ppm) of $\rm CO_2$ in the air. As the $\rm CO_2$ concentration changes, the outside air damper modulates to meet the current ventilation needs of the zone. DCV is a passive system; direct control of the indoor fan is not possible with standard or low leak economizers. The $\rm CO_2$ sensor kit is available as a field installed accessory.

Economizer

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

Electric Heaters

Electric heat is available as a field installed option.

High Static Drive Accessory

Available on constant volume models only, this high static drive accessory extends the capability of the standard motor. Avoid expensive motors by installing this optimized sheave accessory.

Low Leak Economizer with Fault Detection and Diagnostics

This economizer meets the damper leakage requirements for ASHRAE 90.1, IECC, and California Title 24 standards (3 cfm/ft² at 1.0 in. w.g. for outside air dampers and 4 cfm/ft² for return dampers).

Features and Benefits

LP Conversion Kit

Provided for field conversion of gas heat units from natural gas to propane.

Manual Outside Air Damper

A 0-50 percent manual air damper is available.

Motorized Outside Air Damper

A 0-50 percent motorized outside air dampers is available.

Multi-Speed Oversized Motors

Constant volume only – Field installed oversized motors are available for high static applications.

Power Exhaust

This option is available on downflow units and provides exhaust of the return air, when using a downflow economizer, to maintain proper building pressurization. This is an excellent option for relieving most building overpressurization problems.

Reference or Comparative Enthalpy

Measures and communicates humidity while maximizing comfort control.

Remote Potentiometer

When installed in the economizer control circuitry, this accessory provides a method to remotely adjust the minimum damper position.

Roof Curbs

Available for downflow units. Only one roof curb for all 7.5 to 12.5 ton Foundation™ units simplifies curb selection.

Thermostats

Available in programmable and non-programmable.

Through-the-Base Electrical Utility Access

An electrical service entrance shall be provided allowing access for both control and main power connections inside the curb and through the base of the unit. This 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.

Through-the-Base Gas Piping (Gas Heat Units Only)

This option shall have all piping necessary including, black steel, manual gas shut-off valve, elbows, and union. This assembly will require minor field labor to install.

Tool-less Hail Guards

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

Other Benefits

Easy to Install, Service and Maintain

Because today's owners are very cost-conscious when it comes to service and maintenance, Foundation was designed with direct input from service contractors. This valuable information helped to design a product that would get the service technician off the job quicker and save the owner money. Foundation does this by offering 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.

Outstanding Flexibility

The Foundation 7.5-12.5 ton units match the footprint of specific Carrier Weather™ units.

Rigorous Testing

All of Foundation's designs were rigorously rain tested at the factory to ensure water integrity. Each part of the top overlaps in such a way that water cannot leak into the unit. These overlapped edges are gasketed and sealed to ensure superior water integrity.

Actual shipping tests were performed to determine packaging requirements. Factory shake tests were used as part of the package design process to help assure that the unit arrives at the job site in top condition.

For the microchannel coils, the supplier will perform the leak check at 450 psig. The completely assembled refrigerant system is leak tested at a minimum of 225 psig with a refrigerant and nitrogen mixture.

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.

Unmatched Support

Trane Sales Representatives are a Support Group that can assist you with:

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



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 building pressure increases, the pressure in the unit return air section also increases, opening the dampers and relieving the conditioned space.

Notes:

- 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.

Clearance Requirements

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

Condensate Trap

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

Unit Pitch

These units have sloped condensate drain pans. Units must be installed level. Any unit slope must be toward access side of the unit.



Selection Procedure

Cooling Capacity

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

Factors used in unit selection:

Total Cooling Load: 120 MBhSensible Cooling Load: 96 MBh

Airflow: 4000 cfm

Electrical Characteristics: 460/60/3

Summer Design Conditions: Entering Evaporator Coil: 80°F DB/67°F WB

Outdoor Ambient: 95°F

External Static Pressure: 0.38 in. wg
 Rooftop – Downflow configuration
 Accessories: Roof Curb, Electric Heat

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.

120 MBh / 12 MBh = 10 Tons

3. shows that a GBC120A has a gross cooling capacity of 122.1 MBh and 96.3 MBh sensible capacity at 4000 cfm and 95 DB outdoor ambient with 80 DB, 67 WB air entering the evaporator.

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.

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 you add the external static pressure to the additional static related by the added features:

External Static Duct System	0.38 wg
Standard Filter 2 in. from	0.05 wg
Electric Heater Size kW from	0.07 wg
Total Static Pressure	0.47 wg

Note: Reference heating capacity section on this page for determination of heater size. No additional static add for gas/heat exchanger.

Note: The Evaporator Fan Performance has already accounted for the pressure drop for standard filters and wet coils (see note below in). Therefore, the actual total static pressure is 0.47 - 0.05 (from) = 0.42 wg.

With 4000 cfm and 0.42 wg. shows 1.9 bhp for this unit. Note below the table is the formula to calculate fan motor heat.

3-hp fan motor heat (MBh) = $2.90 \times fan bhp + 0.4750$

2.90 x 2.06 + 0.4750 = 5.435 MBh

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

Net Total Cooling Capacity = 122.1 MBh - 5.435 = 116.665 MBh.

Net Sensible Cooling Capacity = 96.3 MBh - 5.435 = 90.865 MBh.

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 procedures DIFFER for cooling (E) and gas/electric (G) units.

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

460 volt/3 phase Power Supply

Total heating load of 100.0 MBh

4000 cfm

The electric heat accessory capacities are listed in . From the table, a 2 kW heater will deliver 109.2 MBh at 480 volts. In order to determine capacity at 460 volts, the heater voltage correction factor from must be used. Therefore, 109.2 MBh x 0.94 (voltage correction factor) = 102.6 MBh.

Gas/electric: Fuel natural gas total heating load of 100 MBh. shows 125 MBh and 180 MBh input models. The output capacities of these furnaces are 70 MBh and 100 MBh respectively. The medium heat model with 100 MBh output best matches the building requirements.

Air Delivery Selection

External static pressure drop through the air distribution system has been calculated to be 0.38 inches of water. From the 32 kW heater is 0.04 inches of water (0.38 + 0.04). Enter for a EBC120A4E0 at 4000 cfm and 0.42 static pressure. The standard motor will give the desired airflow at 758 rpm and rated bhp of 1.89.



Model Number Description

Digit 1 — Unit Type

 \mathbf{E} = Packaged Cooling, Electric Heat

G = Packaged Gas/Electric

Digit 2 - Efficiency

C = ASHRAE 90.1 - 2016

Digit 3 — Airflow Configuration

C = Convertible

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

090 = 7.5 Tons

102 = 8.5 Tons

120 = 10 Tons **150** = 12.5 Tons

Digit 7 - Major Design Sequence

A = Rev A

B = Rev B

Digit 8 — Voltage Selection

3 = 208-230/60/3

4 = 460/60/3

Digit 9 — Unit Controls

E = Electromechanical

Digit 10 — Heating Capacity

0 = Cooling Only (field installed electric heat)

L = Gas Heat - Low

M = Gas Heat - Medium

X = Gas Heat - Stainless Steel HX - Low

Y = Gas Heat - Stainless Steel HX - Medium

Z = Gas Heat - Stainless Steel HX - High

Digit 11- Minor Design Sequence

A = Rev A

Digit 12, 13 - Service Sequence

00 = None

Digit 14 - Fresh Air Selection

0 = No Fresh Air Options

Digit 15 — Supply Fan/Drive Type/Motor

0 = Standard Motor

7 = Multi-Speed Standard Motor

9 = Multi-Speed Oversized Motor

Digit 16 — Unit

M = Medium Foundation

Digit 17 — Condenser Coil Protection

0 = Standard Coil

Digit 18 — Through The Base Provisions

0 = No Through the Base Provisions

Digit 19 - Disconnect Switch

0 = No Disconnect/No Circuit Breaker

Digit 20 to 24

Not Used

Digit 25 — System Monitoring Controls

0 = No Monitoring Controls

Digit 26 — System Monitoring Controls

0 = No Option

Model Number Notes

Note: 10 hp oversized motor is factory installed only.



General Data

Table 1. General data — 7.5-12.5 tons — 230 volts

	7.5 Ton	8.5 Ton	10 Ton	12.5 Ton
	E/GCC090	E/GCC105	E/GCC120	E/GCC150
Cooling Performance ^(a)	•	1	1	•
Gross Cooling Capacity	90000	102000	120000	150000
EER (Downflow/Horizontal)	11.2	11.2	11.2	11.0
Nominal Airflow CFM / AHRI Rated CFM	3200/3000	3700/3000	3700/3200	4600/4000
AHRI Net Cooling Capacity	86000	104000	114000	140000
Integrated Energy Efficiency Ratio (IEER)	14.8	14.8	14.8	14.2
Percent Capacity @ part load (Stage 1/Stage 2)	58/100	47/100	44/100	32/100
System Power (kW)	7.68	9.29	10.18	12.73
Compressor				
Number/Type	2 / Scrolls	2 / Scrolls	2 / Scrolls	2 / Scrolls
Sound				
Outdoor Sound Rating (BELS)	8.2	8.2	8.2	8.7
Outdoor Coil	 	- · -	- · -	
Туре	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.) (System A + System B	0.63+0.63	0.81+1.0	0.81+1.0	1.28+1.28
ace Area (sq. ft.)	23.81	27.38	27.38	27.38
Rows/FPI	1/23	1/23	1/23	1/23
ndoor Coil	1/20	1720	1720	1720
Гуре	Microchannel	Microchannel	Microchannel	Microchannel
Гube Size (in.) ID	0.98	0.98	1.57	1.57
Face Area (sq. ft.)	12.88	12.88	12.88	12.88
Rows/FPI	3/17	3/17	4/17	4/17
Refrigerant Control	EXV	EXV	EXV	EXV
Orain Connection Number/Size (in.)	1 / 3/4" PVC Pipe Female			
Outdoor Fan	. vo i ipo i omaio			
Гуре	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	2 / 23-1/2"	·		
Drive Type/No. Speeds	İ	2 / 23-1/2"	2 / 23-1/2"	2 / 23-1/2"
ofm	Direct / 10	Direct / 10	Direct / 10	Direct / 10
Number Motors/hp	8400 2 / 1/2HD	8300 2 / 1/2HD	8300 2 / 1/2HB	10000
Motor rpm	2 / 1/3HP	2 / 1/3HP	2 / 1/3HP	2 / 3/4HP
ndoor Fan	960	960	960	1070
Гуре	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)			1 / 15x15	1
Drive Type/No. Speeds	1 / 15x15 Belt / 1			
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)	2.0 / 3.0	2.0 / 5.0	3.0 / 5.0	3.0 / 5.0
Motor rpm (Standard/Oversized)	1725	1725	1725	1725
Motor Frame Size (Standard/Oversized)	56 / 56	56 / 56	56 / 56	56 / 56
Filters	50700	1 00700	1 00700	20700
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	-	,		
Refrigerant Charge (Pounds of R-410A)(b)	(4)20*20*2	(4)20*20*2	(4)20*20*2	(4)20*20*2
Circuit A	0.07."	4.05 "	5.00 "	7.50 "
	3.97 lbs	4.85 lbs	5.29 lbs	7.50 lbs
Circuit B	3.53 lbs	4.41 lbs	5.07 lbs	5.73 lbs

⁽a) Units are AHRI Certified to AHRI Standard 340-360 (I-P). Rating conditions are 95°F outdoor air temperature, 80°F entering dry bulb, 67°F entering wet bulb with minimum external static pressure as determined by rating standard.

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



Table 2. General data — 7.5–12.5 tons — 460 volts

	7.5 Ton	8.5 Ton	10 Ton	12.5 Ton
	E/GCC090	E/GCC105	E/GCC120	E/GCC150
Cooling Performance ^(a)				
Gross Cooling Capacity	90000	102000	120000	150000
EER (Downflow/Horizontal)	11.2	11.2	11.2	11.0
Nominal Airflow CFM / AHRI Rated CFM	3200/3000	3700/3000	3700/3200	4600/4000
AHRI Net Cooling Capacity	86000	104000	114000	140000
Integrated Energy Efficiency Ratio (IEER)	14.8	14.8	14.8	14.2
Percent Capacity @ part load (Stage 1/Stage 2)	58/100	47/100	44/100	32/100
System Power (kW)	7.68	9.29	10.18	12.73
Compressor	•			
Number/Type	2 / Scrolls	2 / Scrolls	2 / Scrolls	2 / Scrolls
Sound				
Outdoor Sound Rating (BELS)	8.2	8.2	8.2	9.2
Outdoor Coil	•			
Туре	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.) (System A + System B	0.63+0.63	1.0+1.0	1.0+1.0	1.28+1.28
Face Area (sq. ft.)	23.81	27.38	27.38	27.38
Rows/FPI	1/23	1/23	1/23	1/23
Indoor Coil	•			
Туре	Microchannel	Microchannel	Microchannel	Microchannel
Tube Size (in.) ID	0.98	0.98	1.57	1.57
Face Area (sq. ft.)	12.88	12.88	12.88	12.88
Rows/FPI	3/17	3/17	4/17	4/17
Refrigerant Control	EXV	EXV	EXV	EXV
Drain Connection Number/Size (in.)	1 / 3/4" PVC Pipe Female			
Outdoor Fan				
Туре	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	2 / 23-1/2"	2 / 23-1/2"	2 / 23-1/2"	2 / 23-1/2"
Drive Type/No. Speeds	Direct / 10	Direct / 10	Direct / 10	Direct / 10
cfm	8400	8300	8300	10000
Number Motors/hp	2 / 1/3HP	2 / 1/3HP	2 / 1/3HP	2 / 3/4HP
Motor rpm	960	960	960	1070
Indoor Fan				
Туре	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 15X15	1 / 15X15	1 / 15X15	1 / 15X15
Drive Type/No. Speeds	Belt / 1	Belt / 1	Belt / 1	Belt / 1
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)	2.0 /3.0	2.0 / 5.0	3.0 / 5.0	3.0 / 5.0
Motor rpm (Standard/Oversized)	1725	1725	1725	1725
Motor Frame Size (Standard/Oversized)	56/56	56/56	56/56	56/56
Filters		•		
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4)20*20*2	(4) 20*20*2	(4) 20*20*2	(4)20*20*2
Refrigerant Charge (Pounds of R-410A)(b)		•		
Circuit A	3.97 lbs	4.85 lbs	5.29 lbs	7.72 lbs
Circuit B	3.31 lbs	4.41 lbs	4.85 lbs	5.95 lbs

⁽a) Units are AHRI Certified to AHRI Standard 340-360 (I-P). Rating conditions are 95°F outdoor air temperature, 80°F entering dry bulb, 67°F entering wet bulb with minimum external static pressure as determined by rating standard.

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

Table 3. General data—heating performance – 7.5–12.5 tons

			Heating Per	rformance ^(a)		
		7.5 - 8.5 Tons			10 - 12.5 Tons	
Heating Models	Low	Medium	High	Low	Medium	High
Heating Input (Btu/h)	125000	180,000	225000	180,000	225000	250000
1 st Stage (Btu)	87500	126,000	168000	126,000	168000	200000
Heating Output (Btu/h)	100000	144,000	180,000	144,000	180000	200000
1 st Stage (Btu)	70000	100,000	125,000	100,000	125000	160000
Steady State Efficiency %	81%	81%	81%	81%	81%	81%
No. Burners	3	5	6	5	6	6
No. Stages	2	2	2	2	2	2
Gas Supply Line Pressure (in. wc)						
Natural Gas (minimum/maximum)	4.5 / 14.0 in. wc.	4.5 / 14.0 in. wc.	4.5 / 14.0 in. wc.			
LP (minimum/maximum)	11.0/14.0 in. wc.	11.0/14.0 in. wc.	11.0/14.0 in. wc.	11.0/14.0 in. wc.	11.0/14.0 in. wc.	11.0/14.0 in. wc.
Gas Connection Pipe Size (in.)	1/2"	1/2"	3/4"	1/2"	3/4"	3/4"

⁽a) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards (ANSI). 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.



Gross Cooling Capacities

Table 4. Gross cooling capacities 7.5 tons

			Ambie	nt Tem	peratu	ıre (°F)			Ambie	nt Tem	peratu	re (°F)			Ambie	ent Tem	peratu	re (°F)	
	Ent			8	5					9	5					10)5		
CFM	DB (°	E	Enterin	g Wet I	Bulb Te	emp (°F)	ı	Enterin	g Wet I	Bulb Te	emp (°F)	E	Enterin	g Wet E	Bulb Te	mp (°F)
	F)	6	1	6	7	7	3	6	31	6	7	7	3	6	1	6	7	7	3
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
	75	80.1	53.9	89.7	45.1	99.1	33.6	72.1	52.0	84.6	42.0	92.0	34.0	65.7	48.5	75.3	40.1	85.4	32.4
2400	80	79.3	66.4	88.8	55.6	98.3	46.4	71.2	62.5	83.5	54.1	91.0	41.2	64.9	57.0	74.4	51.6	84.5	42.6
2400	85	78.9	74.0	88.5	62.0	98.2	58.7	70.8	68.0	83.0	61.8	90.0	49.7	64.5	61.4	73.9	58.9	83.5	47.4
	90	78.7	74.6	88.2	64.0	97.9	73.8	70.6	70.6	82.8	64.8	90.1	52.4	64.3	64.3	73.7	61.8	83.5	50.0
	75	81.3	58.8	91.0	49.2	100.4	36.7	73.2	56.8	85.8	45.8	93.5	42.1	66.7	52.9	76.5	43.7	86.8	40.1
2700	80	80.5	72.2	90.1	60.4	99.9	50.4	72.2	67.9	84.7	58.7	91.9	42.5	65.9	61.9	75.5	56.0	85.2	40.5
2.00	85	80.0	75.8	89.6	67.3	99.5	63.8	71.7	71.7	84.2	67.1	91.5	54.3	65.3	65.3	74.9	64.0	84.9	51.7
	90	79.8	75.6	89.3	68.0	99.1	78.3	71.5	71.5	83.9	68.9	91.4	63.3	65.1	65.1	74.7	65.7	84.8	60.4
	75	82.4	63.7	92.3	53.3	101.9	39.8	74.2	61.5	87.1	49.6	94.4	35.9	67.6	57.3	77.5	47.3	87.5	34.3
3000	80	81.7	77.4	91.5	65.2	101.3	54.4	73.3	73.3	86.0	63.4	93.5	51.3	66.8	66.8	76.6	60.5	86.8	48.8
	85	81.1	76.8	90.8	72.6	100.8	68.9	72.7	72.7	85.2	72.4	92.9	66.6	66.2	66.2	75.9	69.1	86.2	63.5
	90	80.8	76.6	90.4	71.9	100.4	82.9	72.4	72.4	84.9	72.9	92.5	81.5	65.9	65.9	75.6	69.5	85.8	77.6
	75	83.5	69.0	93.6	57.8	103.4	43.0	75.3	66.6	88.3	53.8	95.2	30.6	68.5	62.1	78.6	51.2	88.3	29.3
3300	80	82.9	73.0	92.9	70.3	102.8	58.7	74.5	74.5	87.3	68.4	95.2	61.8	67.7	67.7	77.7	65.3	88.3	58.9
	85	82.1	77.8	92.0	78.4	102.1	74.4	73.7	73.7	86.3	78.2	94.3	81.7	67.1	67.1	76.9	74.6	87.5	78.0
	90	81.8	77.5	91.5	76.0	101.6	87.7	73.2	73.2	85.9	77.1	93.6	93.6	66.7	66.7	76.5	76.5	86.8	86.8
			Ambie	ent Tem	peratu	re (°F)			Ambie	nt Tem	peratu	re (°F)			Ambie	ent Tem	peratu	re (°F)	
	Ent			1	15					12	20					12	25		
CFM	DB (°	E	Enterin	g Wet I	Bulb Te	mp (°F)	I	Enterin	g Wet I	Bulb Te	mp (°F)	E	Enterin	g Wet I	Bulb Te	mp (°F)
	F)	6	1	6	7	7	3	6	61	6	7	7	3	6	1	6	7	7	3
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
	75	56.1	45.5	66.5	38.7	76.8	31.3	47.7	40.6	61.2	40.6	70.7	30.4	24.9	22.0	30.9	21.6	35.8	17.6
2400	80	55.4	48.6	65.7	49.8	75.9	36.8	47.2	41.7	60.5	52.2	70.0	44.5	24.6	21.8	30.5	27.8	35.4	25.8
2.00	85	55.1	53.7	65.3	57.0	75.1	45.7	46.8	46.8	60.1	55.1	69.2	40.1	24.4	24.4	30.3	29.3	35.0	23.2
	90	54.9	54.9	65.2	59.4	75.0	48.2	46.4	46.4	60.0	60.0	68.9	47.0	24.2	24.2	30.2	29.3	34.8	27.2
						75.0													
	75	56.9	49.6	67.5	42.3	77.6	33.1	48.4	44.2	62.2	44.2	71.9	37.8	25.2	24.0	31.3	23.6	36.4	21.9
2700	80	56.2	49.6 52.8	67.5 66.7	42.3 54.2	77.6 76.9	33.1 39.3	48.4 47.7	44.2 45.1	62.2 61.4	44.2 56.2	71.9 70.6	37.8 38.1	24.9	23.6	30.9	29.9	35.7	22.1
2700	80 85	56.2 55.8	49.6 52.8 55.7	67.5 66.7 66.2	42.3 54.2 61.9	77.6 76.9 76.5	33.1 39.3 52.5	48.4 47.7 47.3	44.2 45.1 47.3	62.2 61.4 61.0	44.2 56.2 55.9	71.9 70.6 70.4	37.8 38.1 48.6	24.9 24.7	23.6 24.7	30.9 30.7	29.9 29.8	35.7 35.6	22.1 28.2
2700	80 85 90	56.2 55.8 55.6	49.6 52.8 55.7 55.6	67.5 66.7 66.2 66.0	42.3 54.2 61.9 63.2	77.6 76.9 76.5 76.2	33.1 39.3 52.5 62.1	48.4 47.7 47.3 47.0	44.2 45.1 47.3 47.0	62.2 61.4 61.0 60.7	44.2 56.2 55.9 60.7	71.9 70.6 70.4 70.2	37.8 38.1 48.6 56.7	24.9 24.7 24.6	23.6 24.7 24.6	30.9 30.7 30.6	29.9 29.8 29.6	35.7 35.6 35.5	22.1 28.2 32.9
2700	80 85 90 75	56.2 55.8 55.6 57.7	49.6 52.8 55.7 55.6 53.7	67.5 66.7 66.2 66.0 68.4	42.3 54.2 61.9 63.2 45.8	77.6 76.9 76.5 76.2 78.7	33.1 39.3 52.5 62.1 35.3	48.4 47.7 47.3 47.0 50.2	44.2 45.1 47.3 47.0 48.3	62.2 61.4 61.0 60.7 63.0	44.2 56.2 55.9 60.7 48.0	71.9 70.6 70.4 70.2 72.5	37.8 38.1 48.6 56.7 32.2	24.9 24.7 24.6 26.2	23.6 24.7 24.6 26.2	30.9 30.7 30.6 31.8	29.9 29.8 29.6 25.5	35.7 35.6 35.5 36.7	22.1 28.2 32.9 18.7
2700	80 85 90 75 80	56.2 55.8 55.6 57.7 57.0	49.6 52.8 55.7 55.6 53.7 57.0	67.5 66.7 66.2 66.0 68.4 67.7	42.3 54.2 61.9 63.2 45.8 58.5	77.6 76.9 76.5 76.2 78.7 78.0	33.1 39.3 52.5 62.1 35.3 47.2	48.4 47.7 47.3 47.0 50.2 49.6	44.2 45.1 47.3 47.0 48.3 49.6	62.2 61.4 61.0 60.7 63.0 62.3	44.2 56.2 55.9 60.7 48.0 57.1	71.9 70.6 70.4 70.2 72.5 71.9	37.8 38.1 48.6 56.7 32.2 45.9	24.9 24.7 24.6 26.2 25.9	23.6 24.7 24.6 26.2 25.9	30.9 30.7 30.6 31.8 31.4	29.9 29.8 29.6 25.5 30.4	35.7 35.6 35.5 36.7 36.4	22.1 28.2 32.9 18.7 26.6
	80 85 90 75 80 85	56.2 55.8 55.6 57.7 57.0 56.5	49.6 52.8 55.7 55.6 53.7 57.0 56.5	67.5 66.7 66.2 66.0 68.4 67.7 67.1	42.3 54.2 61.9 63.2 45.8 58.5 66.9	77.6 76.9 76.5 76.2 78.7 78.0 77.5	33.1 39.3 52.5 62.1 35.3 47.2 61.3	48.4 47.7 47.3 47.0 50.2 49.6 49.2	44.2 45.1 47.3 47.0 48.3 49.6 49.2	62.2 61.4 61.0 60.7 63.0 62.3 61.8	44.2 56.2 55.9 60.7 48.0 57.1 56.6	71.9 70.6 70.4 70.2 72.5 71.9 71.4	37.8 38.1 48.6 56.7 32.2 45.9 59.7	24.9 24.7 24.6 26.2 25.9 25.7	23.6 24.7 24.6 26.2 25.9 25.7	30.9 30.7 30.6 31.8 31.4 31.1	29.9 29.8 29.6 25.5 30.4 30.1	35.7 35.6 35.5 36.7 36.4 36.1	22.1 28.2 32.9 18.7 26.6 34.6
	80 85 90 75 80 85 90	56.2 55.8 55.6 57.7 57.0 56.5 56.3	49.6 52.8 55.7 55.6 53.7 57.0 56.5 56.3	67.5 66.7 66.2 66.0 68.4 67.7 67.1 66.8	42.3 54.2 61.9 63.2 45.8 58.5 66.9 66.8	77.6 76.9 76.5 76.2 78.7 78.0 77.5 77.2	33.1 39.3 52.5 62.1 35.3 47.2 61.3 74.9	48.4 47.7 47.3 47.0 50.2 49.6 49.2 49.0	44.2 45.1 47.3 47.0 48.3 49.6 49.2 49.0	62.2 61.4 61.0 60.7 63.0 62.3 61.8 61.5	44.2 56.2 55.9 60.7 48.0 57.1 56.6 61.5	71.9 70.6 70.4 70.2 72.5 71.9 71.4 71.4	37.8 38.1 48.6 56.7 32.2 45.9 59.7 62.1	24.9 24.7 24.6 26.2 25.9 25.7 25.6	23.6 24.7 24.6 26.2 25.9 25.7 25.6	30.9 30.7 30.6 31.8 31.4 31.1 31.0	29.9 29.8 29.6 25.5 30.4 30.1 30.0	35.7 35.6 35.5 36.7 36.4 36.1 36.1	22.1 28.2 32.9 18.7 26.6 34.6 36.0
	80 85 90 75 80 85 90	56.2 55.8 55.6 57.7 57.0 56.5 56.3	49.6 52.8 55.7 55.6 53.7 57.0 56.5 56.3	67.5 66.7 66.2 66.0 68.4 67.7 67.1 66.8	42.3 54.2 61.9 63.2 45.8 58.5 66.9 66.8	77.6 76.9 76.5 76.2 78.7 78.0 77.5 77.2	33.1 39.3 52.5 62.1 35.3 47.2 61.3 74.9 37.7	48.4 47.7 47.3 47.0 50.2 49.6 49.2 49.0 52.1	44.2 45.1 47.3 47.0 48.3 49.6 49.2 49.0 52.1	62.2 61.4 61.0 60.7 63.0 62.3 61.8 61.5	44.2 56.2 55.9 60.7 48.0 57.1 56.6 61.5 52.0	71.9 70.6 70.4 70.2 72.5 71.9 71.4 71.4	37.8 38.1 48.6 56.7 32.2 45.9 59.7 62.1 27.5	24.9 24.7 24.6 26.2 25.9 25.7 25.6 27.2	23.6 24.7 24.6 26.2 25.9 25.7 25.6 27.2	30.9 30.7 30.6 31.8 31.4 31.1 31.0	29.9 29.8 29.6 25.5 30.4 30.1 30.0 27.7	35.7 35.6 35.5 36.7 36.4 36.1 36.1	22.1 28.2 32.9 18.7 26.6 34.6 36.0 15.9
	80 85 90 75 80 85 90 75 80	56.2 55.8 55.6 57.7 57.0 56.5 56.3 58.5 57.8	49.6 52.8 55.7 55.6 53.7 57.0 56.5 56.3 58.2 57.8	67.5 66.7 66.2 66.0 68.4 67.7 67.1 66.8 69.4 68.7	42.3 54.2 61.9 63.2 45.8 58.5 66.9 66.8 49.6 63.2	77.6 76.9 76.5 76.2 78.7 78.0 77.5 77.2 79.8 79.2	33.1 39.3 52.5 62.1 35.3 47.2 61.3 74.9 37.7 56.6	48.4 47.7 47.3 47.0 50.2 49.6 49.2 49.0 52.1 51.5	44.2 45.1 47.3 47.0 48.3 49.6 49.2 49.0 52.1 51.5	62.2 61.4 61.0 60.7 63.0 62.3 61.8 61.5 63.9 63.2	44.2 56.2 55.9 60.7 48.0 57.1 56.6 61.5 52.0 58.0	71.9 70.6 70.4 70.2 72.5 71.9 71.4 71.4 73.1 73.3	37.8 38.1 48.6 56.7 32.2 45.9 59.7 62.1 27.5 55.4	24.9 24.7 24.6 26.2 25.9 25.7 25.6 27.2 26.9	23.6 24.7 24.6 26.2 25.9 25.7 25.6 27.2 26.9	30.9 30.7 30.6 31.8 31.4 31.1 31.0 32.2 31.9	29.9 29.8 29.6 25.5 30.4 30.1 30.0 27.7 30.9	35.7 35.6 35.5 36.7 36.4 36.1 37.0 37.0	22.1 28.2 32.9 18.7 26.6 34.6 36.0 15.9 32.1
3000	80 85 90 75 80 85 90	56.2 55.8 55.6 57.7 57.0 56.5 56.3	49.6 52.8 55.7 55.6 53.7 57.0 56.5 56.3	67.5 66.7 66.2 66.0 68.4 67.7 67.1 66.8	42.3 54.2 61.9 63.2 45.8 58.5 66.9 66.8	77.6 76.9 76.5 76.2 78.7 78.0 77.5 77.2	33.1 39.3 52.5 62.1 35.3 47.2 61.3 74.9 37.7	48.4 47.7 47.3 47.0 50.2 49.6 49.2 49.0 52.1	44.2 45.1 47.3 47.0 48.3 49.6 49.2 49.0 52.1	62.2 61.4 61.0 60.7 63.0 62.3 61.8 61.5	44.2 56.2 55.9 60.7 48.0 57.1 56.6 61.5 52.0	71.9 70.6 70.4 70.2 72.5 71.9 71.4 71.4	37.8 38.1 48.6 56.7 32.2 45.9 59.7 62.1 27.5	24.9 24.7 24.6 26.2 25.9 25.7 25.6 27.2	23.6 24.7 24.6 26.2 25.9 25.7 25.6 27.2	30.9 30.7 30.6 31.8 31.4 31.1 31.0	29.9 29.8 29.6 25.5 30.4 30.1 30.0 27.7	35.7 35.6 35.5 36.7 36.4 36.1 36.1	22.1 28.2 32.9 18.7 26.6 34.6 36.0 15.9

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
- SHC = Sensible heat capacity
 Ambient Temperature above 120°F, the system B shuts down.

Table 5. Gross cooling capacities 8.5 tons

			Ambie	ent Tem	peratu	re (°F)			Ambie	nt Tem	peratu	ıre (°F)			Ambie	ent Tem	peratu	re (°F)				
	Ent			8	5	<u> </u>				9	5	<u> </u>				10)5					
CFM	DB (°	E	Enterin	g Wet E		mp (°F)	ı	Enterin	g Wet E	•	mp (°F	;)	E	Enterin	g Wet E		mp (°F)			
	F)	6	1	6	7	7	3	6	61	6	7	7	'3		1	6			3			
		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC			
	75	97.5	67.0	109.1	57.5	119.9	42.4	90.6	64.1	103.3	53.4	115.2	42.6	85.5	60.8	98.5	50.5	109.6	41.8			
2700	80	96.6	82.0	108.0	70.3	119.0	57.6	89.5	81.9	102.1	67.9	114.0	51.2	84.4	77.7	97.3	64.3	108.4	54.4			
2700	85	96.2	91.0	107.6	78.0	118.8	72.3	89.0	86.8	101.5	77.1	112.8	61.3	84.0	81.8	96.7	73.1	107.3	60.3			
	90	95.9	91.7	107.4	80.5	118.5	90.2	88.8	86.6	101.3	80.8	112.9	64.5	83.7	81.5	96.5	76.6	107.2	63.5			
	75	98.9	72.9	110.6	62.5	121.5	46.1	91.8	69.8	104.8	58.0	117.1	52.3	86.6	66.2	99.9	54.9	111.3	51.4			
3050	80	98.0	88.8	109.6	76.1	120.8	62.4	90.7	88.7	103.5	73.5	115.0	52.7	85.6	83.4	98.7	69.7	109.4	51.9			
0000	85	97.4	93.1	109.0	84.4	120.4	78.4	90.1	87.8	102.8	83.5	114.6	66.7	85.0	82.7	98.0	79.2	109.0	65.6			
	90	97.1	92.9	108.6	85.3	119.9	95.6	89.9	87.6	102.5	85.7	114.5	77.4	84.7	82.5	97.7	81.2	108.9	76.3			
	75	100.2	78.7	112.1	67.5	123.2	49.7	93.1	75.4	106.2	62.5	118.1	44.9	87.8	71.5	101.2	59.3	112.2	44.2			
3400	80	99.4	95.1	111.2	81.9	122.5	67.2	92.1	89.7	105.0	79.1	117.1	63.1	86.8	84.5	100.1	75.0	111.3	62.1			
	85	98.6	94.3	110.3	90.9	121.9	84.4	91.3	89.0	104.1	90.0	116.3	81.3	86.1	83.7	99.2	85.3	110.6	80.1			
	90	98.3	94.0	109.9	90.0	121.4	101.0	90.9	88.6	103.7	90.5	115.8	98.9	85.7	83.4	98.9	85.7	110.1	97.4			
	75	101.5	85.0	113.7	73.0	124.9 124.2	53.6	94.4	81.5	107.8	67.5	119.1	38.7	89.0	77.3	102.6	63.9	113.2	38.0			
3750	80 85	100.8 99.9	96.4 95.6	112.8	88.1 97.8	124.2	72.3 90.9	93.4 92.5	91.0 90.1	106.5 105.3	85.2 96.9	119.1 118.0	75.7 99.2	88.0 87.2	85.6 84.8	101.5 100.5	80.8 91.9	113.2 112.3	74.4 97.9			
	90	99.9	95.0	111.7 111.2	95.0	123.5	106.7	91.9	89.6	105.3	95.6	117.2	99.2 114.7	86.7	64.6 84.4	100.5	90.6	111.3	108.9			
	90	99.0		l		l	100.7	91.9				1	114.7	00.7		!		l	100.9			
			Ambie	ent rem										Ambient Temperature (°F) 125								
		Ambient Temperature (°F)					AIIIDI		peratu	16(1)			Allibit			ire (F)						
СЕМ	Ent	115 Entering Wet Bulb Temp (°F)		11	15					12	20	, ,		_		12	25					
CFM	DB (°	E	Enterin	11	15)	ı			20	, ,	·)	E			25)			
CFM		E		11	I5 Bulb Te		•			12	20 Bulb Te	emp (°F	·) '3			12	25 Bulb Te	emp (°F	3			
CFM	DB (° F)	6 MBh	1 SHC	11 g Wet E 6 MBh	I5 Bulb Te 7 SHC	emp (°F	3 SHC	MBh	Enterin 61 SHC	12 g Wet E 6 MBh	20 Bulb Te 7 SHC	emp (°F	3 SHC	6 MBh	Enterin	12 g Wet B 6 MBh	25 Bulb Te 7 SHC	emp (°F	3 SHC			
CFM	DB (° F)	6 MBh 76.0	SHC 58.9	11 g Wet E 6 MBh 86.8	I5 Bulb Te 7 SHC 49.7	emp (°F 7 MBh 99.6	3 SHC 40.7	MBh 73.3	Enterin 51 SHC 51.3	12 g Wet E 6 MBh 81.9	20 Bulb Te 7 SHC 62.0	emp (°F 7 MBh 95.5	SHC 59.0	6 MBh 35.5	Enterin 31 SHC 27.9	12 g Wet E 6 MBh 42.4	25 Bulb Te 7 SHC 27.5	emp (°F 7 MBh 45.7	SHC 22.7			
CFM 2700	DB (° F) 75 80	6 MBh 76.0 75.1	5HC 58.9 72.9	9 Wet E 6 MBh 86.8 85.7	7 SHC 49.7 63.3	emp (°F 7 MBh 99.6 98.5	3 SHC 40.7 47.6	73.3 72.6	Enterin 51 SHC 51.3 64.5	12 g Wet E 6 MBh 81.9 81.0	20 Bulb Te 7 SHC 62.0 79.1	emp (°F 7 MBh 95.5 94.5	SHC 59.0 85.5	6 MBh 35.5 35.2	Enterin 31 SHC 27.9 33.0	12 g Wet E 6 MBh 42.4 42.0	25 Bulb Te 7 SHC 27.5 34.5	emp (°F 7 MBh 45.7 45.2	3 SHC 22.7 31.9			
	DB (° F) 75 80 85	6 MBh 76.0 75.1 74.7	58.9 72.9 72.5	9 Wet E 6 MBh 86.8 85.7 85.2	7 SHC 49.7 63.3 72.0	mp (°F 7 MBh 99.6 98.5 97.5	3 SHC 40.7 47.6 58.7	MBh 73.3 72.6 72.0	Enterin 51 SHC 51.3 64.5 69.9	12 g Wet E 6 MBh 81.9 81.0 80.5	20 Bulb Te 7 SHC 62.0 79.1 78.5	95.5 94.5 93.4	SHC 59.0 85.5 77.2	6 MBh 35.5 35.2 34.9	Enterin 51 SHC 27.9 33.0 32.8	6 MBh 42.4 42.0 41.7	25 Bulb Te 7 SHC 27.5 34.5 36.3	mp (°F 7 MBh 45.7 45.2 44.8	3 SHC 22.7 31.9 29.0			
	75 80 85 90	6 MBh 76.0 75.1 74.7 74.5	58.9 72.9 72.5 72.3	6 MBh 86.8 85.7 85.2 85.1	7 SHC 49.7 63.3 72.0 75.4	99.6 97.5 97.4	3 SHC 40.7 47.6 58.7 61.8	MBh 73.3 72.6 72.0 71.5	Enterin 51 SHC 51.3 64.5 69.9 69.4	9 Wet E 6 MBh 81.9 81.0 80.5 80.3	20 3ulb Te 7 SHC 62.0 79.1 78.5 78.3	95.5 94.5 93.4 93.1	59.0 85.5 77.2 90.2	MBh 35.5 35.2 34.9 34.7	Enterin 31 SHC 27.9 33.0 32.8 32.6	6 MBh 42.4 42.0 41.7 41.6	25 Bulb Te 7 SHC 27.5 34.5 36.3 36.2	7 MBh 45.7 45.2 44.8 44.6	3 SHC 22.7 31.9 29.0 33.5			
	75 80 85 90	6 MBh 76.0 75.1 74.7 74.5 77.1	58.9 72.9 72.5 72.3 64.1	9 Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9	7 SHC 49.7 63.3 72.0 75.4 54.0	mp (°F 7 MBh 99.6 98.5 97.5 97.4	3 SHC 40.7 47.6 58.7 61.8 43.0	73.3 72.6 72.0 71.5 74.3	51.3 64.5 69.9 69.4 55.7	9 Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1	20 3ulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4	mp (°F 7 MBh 95.5 94.5 93.4 93.1	SHC 59.0 85.5 77.2 90.2 72.8	6 MBh 35.5 35.2 34.9 34.7 36.0	Enterin 51 SHC 27.9 33.0 32.8 32.6 30.2	6 MBh 42.4 42.0 41.7 41.6 43.0	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7	mp (°F 7 MBh 45.7 45.2 44.8 44.6	3 SHC 22.7 31.9 29.0 33.5 27.5			
	75 80 85 90 75 80	6 MBh 76.0 75.1 74.7 74.5 77.1 76.2	58.9 72.9 72.5 72.3 64.1 73.9	9 Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5	mp (°F 7 MBh 99.6 98.5 97.5 97.4 100.6 99.7	SHC 40.7 47.6 58.7 61.8 43.0 50.7	73.3 72.6 72.0 71.5 74.3 73.4	SHC 51.3 64.5 69.9 69.4 55.7 65.3	12 g Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1	20 Bulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4 80.0	mp (°F 7 MBh 95.5 94.5 93.4 93.1 97.0 95.3	59.0 85.5 77.2 90.2 72.8 73.5	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6	Enterin 31 SHC 27.9 33.0 32.8 32.6 30.2 33.4	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0	mp (°F 7 MBh 45.7 45.2 44.8 44.6 46.4 45.6	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7			
2700	75 80 85 90 75 80 85	6 MBh 76.0 75.1 74.7 74.5 77.1 76.2 75.6	58.9 72.9 72.5 72.3 64.1 73.9 73.3	11 g Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3	53 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0	mp (°F 7 MBh 99.6 98.5 97.5 97.4 100.6 99.7 99.2	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1	73.3 72.6 72.0 71.5 74.3 73.4 72.8	SHC 51.3 64.5 69.9 69.4 55.7 65.3 70.5	12 g Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1 81.6	20 Bulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5	95.5 94.5 93.4 93.1 97.0 95.3 95.0	59.0 85.5 77.2 90.2 72.8 73.5 93.3	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3	Enterin 51 SHC 27.9 33.0 32.8 32.6 30.2 33.4 33.1	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3	25 Bulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8	mp (°F 7 MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5	SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6			
2700	75 80 85 90 75 80 85 90	6 MBh 76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4	**SHC** 58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1	11 g Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0	99.6 98.5 97.5 97.4 100.6 99.7 99.2 98.9	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1	MBh 73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4	SHC 51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2	12 g Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1 81.6 81.2	20 Bulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2	95.5 94.5 93.4 93.1 97.0 95.3 95.0 94.8	SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6	MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1	Enterin 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1	25 Bulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6	mp (°F 7 MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9			
2700	75 80 85 90 75 80 85 90 75	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1	58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1 69.2	11 g Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3	99.6 98.5 97.4 100.6 99.7 99.2 98.9	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0	Enterin 51 51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7	81.9 80.3 83.1 82.1 81.6 81.2	20 Bulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2	95.5 94.5 93.4 93.1 97.0 95.3 95.0 94.8	SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2	### SHC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1	25 Bulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0	7 MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9			
2700	75 80 85 90 75 80 85 90 75 80	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1 77.2	58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1 69.2 74.9	11 g Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1 88.2	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3 73.8	99.6 98.5 97.4 100.6 99.7 99.2 98.9 101.9 101.2	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8 60.5	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0 76.1	51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7 67.3	81.9 80.5 80.3 83.1 82.1 81.6 81.2 84.2	20 3ulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2 72.8 81.1	95.5 94.5 93.1 97.0 95.3 95.0 94.8 97.8	SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4 77.7	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2 36.8	Enterin 5HC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8 34.4	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1 43.6 43.1	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0 37.5	7 MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4 46.8 46.4	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9 32.8			
2700	75 80 85 90 75 80 85 90 75 80 85 90	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1 77.2 76.6	5HC 58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1 69.2 74.9 74.3	9 Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1 88.2 87.4	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3 73.8	mp (°F 7 MBh 99.6 98.5 97.4 100.6 99.7 99.2 98.9 101.9 101.2 100.5	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8 60.5 78.1	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0 76.1 75.5	SHC 51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7 67.3 73.3	9 Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1 81.6 81.2 84.2 83.3 82.6	7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2 72.8 81.1 80.5	mp (°F 7 MBh 95.5 94.5 93.4 93.1 97.0 95.3 95.0 94.8 97.8 97.0 96.3	73 SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4 77.7 94.1	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2 36.8 36.5	Enterin 5HC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8 34.4 34.2	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1 43.6 43.1 42.8	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0 37.5 37.2	mp (°F 7 MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4 46.8 46.4 46.8	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9 32.8 41.8			
2700	75 80 85 90 75 80 85 90 75 80	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1 77.2	58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1 69.2 74.9	11 g Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1 88.2	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3 73.8	99.6 98.5 97.4 100.6 99.7 99.2 98.9 101.9 101.2	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8 60.5 78.1 95.0	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0 76.1	51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7 67.3	81.9 80.5 80.3 83.1 82.1 81.6 81.2 84.2	20 3ulb Te 7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2 72.8 81.1	95.5 94.5 93.1 97.0 95.3 95.0 94.8 97.8	SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4 77.7	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2 36.8	Enterin 5HC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8 34.4	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1 43.6 43.1	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0 37.5	7 MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4 46.8 46.4	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9 32.8			
2700 3050 3400	75 80 85 90 75 80 85 90 75 80 85 90 75 80	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1 77.2 76.6 76.3	5HC 58.9 72.9 72.5 72.3 64.1 73.9 73.1 69.2 74.9 74.3 74.0	9 Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1 88.2 87.4	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3 73.8 84.0 84.4	mp (°F 7 MBh 99.6 98.5 97.4 100.6 99.7 99.2 98.9 101.9 101.2 100.5 100.1	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8 60.5 78.1	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0 76.1 75.5 75.2	SHC 51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7 67.3 73.3 73.0	9 Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1 81.6 81.2 84.2 83.3 82.6 82.3	7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2 72.8 81.1 80.5 80.2	95.5 94.5 93.4 93.1 97.0 95.3 95.0 94.8 97.8 97.0 96.3 96.3	73 SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4 77.7 94.1 94.1	MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2 36.8 36.5 36.4	SHC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8 34.4 34.2 34.1	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1 43.6 43.1 42.8 42.6	7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0 37.5 37.2 37.1	MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4 46.8 46.4 46.1 46.1	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9 32.8 41.8 43.4			
2700	75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1 77.2 76.6 76.3	58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1 69.2 74.9 74.3 74.0	9 Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1 88.2 87.4 87.1 90.3	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3 73.8 84.0 84.4 63.0	mp (°F 7 MBh 99.6 98.5 97.4 100.6 99.7 99.2 98.9 101.9 101.2 100.5 100.1	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8 60.5 78.1 95.0 48.8	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0 76.1 75.5 75.2	SHC 51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7 67.3 73.3 73.0 66.1	9 Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1 81.6 81.2 84.2 83.3 82.6 82.3	7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2 72.8 81.1 80.5 80.2 78.7	95.5 94.5 93.4 93.1 97.0 95.3 95.0 94.8 97.8 97.0 96.3 96.3 98.5	53 SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4 77.7 94.1 94.1 53.5	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2 36.8 36.5 36.4	Enterin 1 SHC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8 34.4 34.2 34.1 35.7	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1 43.6 43.1 42.8 42.6 44.1	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0 37.5 37.2 37.1 34.4	MBh 45.7 45.2 44.8 44.6 46.4 45.6 45.5 45.4 46.8 46.4 46.1 46.1 47.1	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9 32.8 41.8 43.4 20.8			
2700 3050 3400	75 80 85 90 75 80 85 90 75 80 85 90 75 80 85 90	76.0 75.1 74.7 74.5 77.1 76.2 75.6 75.4 78.1 77.2 76.6 76.3 79.2 78.3	58.9 72.9 72.5 72.3 64.1 73.9 73.3 73.1 69.2 74.9 74.3 74.0 74.8 75.9	9 Wet E 6 MBh 86.8 85.7 85.2 85.1 87.9 86.9 86.3 86.1 89.1 88.2 87.4 87.1 90.3 89.5	7 SHC 49.7 63.3 72.0 75.4 54.0 68.5 78.0 80.0 58.3 73.8 84.0 84.4 63.0 79.5	mp (°F 7 MBh 99.6 98.5 97.4 100.6 99.7 99.2 98.9 101.9 101.2 100.5 100.1 103.3 102.6	3 SHC 40.7 47.6 58.7 61.8 43.0 50.7 67.1 79.1 45.8 60.5 78.1 95.0 48.8 72.3	73.3 72.6 72.0 71.5 74.3 73.4 72.8 72.4 77.0 76.1 75.5 75.2 79.7 78.9	SHC 51.3 64.5 69.9 69.4 55.7 65.3 70.5 70.2 60.7 67.3 73.3 73.0 66.1 71.4	9 Wet E 6 MBh 81.9 81.0 80.5 80.3 83.1 82.1 81.6 81.2 84.2 83.3 82.6 82.3 85.3 84.5	7 SHC 62.0 79.1 78.5 78.3 67.4 80.0 79.5 79.2 72.8 81.1 80.5 80.2 78.7 82.3	95.5 94.5 93.4 93.1 97.0 95.3 95.0 94.8 97.8 97.0 96.3 96.3 98.5 98.7	73 SHC 59.0 85.5 77.2 90.2 72.8 73.5 93.3 92.6 62.4 77.7 94.1 94.1 53.5 76.4	6 MBh 35.5 35.2 34.9 34.7 36.0 35.6 35.3 35.1 37.2 36.8 36.5 36.4 38.4 38.1	SHC 27.9 33.0 32.8 32.6 30.2 33.4 33.1 33.0 32.8 34.4 34.2 34.1 35.7 35.6	12 g Wet E 6 MBh 42.4 42.0 41.7 41.6 43.0 42.5 42.3 42.1 43.6 43.1 42.8 42.6 44.1 43.7	25 3ulb Te 7 SHC 27.5 34.5 36.3 36.2 29.7 37.0 36.8 36.6 32.0 37.5 37.2 37.1 34.4 38.0	MBh 45.7 45.2 44.8 44.6 45.6 45.5 45.4 46.8 46.4 46.1 46.1 47.1 47.2	3 SHC 22.7 31.9 29.0 33.5 27.5 27.7 34.6 39.9 23.9 32.8 41.8 43.4 20.8 39.0			

- 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
- 4. Ambient Temperature above 120°F, the system B shuts down.

Table 6. Gross cooling capacities 10 tons

			Ambie	ent Terr	peratu	re (°F)			Ambie	nt Terr	peratu	re (°F)			Ambie	nt Tem	peratu	re (°F)	
				8	5					9	5					10)5	. ,	
	l	Е	Enterin			mp (°F)	E	Enterin			mp (°F)	E	Enterin	g Wet E		mp (°F)
	Ent DB (°	6	1	6	7	7	3	6	1	6	7	7	3	6	1	6	7	7	3
СЕМ	F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
	75	108.3	76.9	118.7	69.3	131.1	40.8	105.0	66.9	115.1	60.3	127.5	39.9	93.5	59.0	102.5	53.1	117.1	35.8
3200	80	107.2	95.7	117.5	86.3	130.1	57.6	103.6	87.2	113.6	78.6	126.1	49.2	92.2	77.0	101.1	69.4	115.8	48.2
3200	85	106.7	107.0	117.0	96.6	129.9	73.9	103.0	100.2	112.9	90.3	124.6	60.0	91.7	88.5	100.5	79.8	114.5	54.0
	90	106.4	107.9	116.7	99.9	129.5	93.7	102.7	104.2	112.6	95.0	124.7	63.5	91.4	92.9	100.2	83.9	114.4	57.2
	75	110.0	84.3	120.5	75.9	133.0	44.9	106.6	73.4	116.8	66.1	129.7	50.3	94.9	64.7	104.1	58.3	119.1	45.2
3600	80	108.9	104.3	119.3	94.1	132.2	62.9	105.2	95.0	115.3	85.7	127.3	50.8	93.7	84.0	102.7	75.7	116.9	45.7
	85	108.2	109.7	118.6	105.2	131.7	80.6	104.4	105.9	114.5	98.4	126.8	65.9	92.9	94.4	101.9	87.0	116.4	59.3
	90	107.9	109.4	118.2	106.3	131.2	99.7	104.1	105.6	114.1	101.1	126.6	77.4	92.6	94.1	101.6	89.3	116.3	69.8
	75	111.6	91.6	122.3	82.6	135.0	48.9	108.2	79.8	118.6	71.9	130.9	42.4	96.3	70.4	105.6	63.4	120.2	38.1
4000	80 85	110.6 109.7	112.1 111.2	121.2 120.2	101.8 113.8	134.2 133.5	68.2 87.3	106.9 105.9	102.9 107.4	117.1 116.0	92.8 106.5	129.7 128.8	62.0 81.6	95.1 94.2	90.9 95.7	104.3 103.3	82.0 94.2	119.1 118.3	55.8 73.6
	90	109.7	110.8	119.7	112.6	132.9	105.7	105.9	107.4	115.5	100.5	128.2	100.6	93.8	95.7	103.3	94.2	117.7	90.7
	75	113.2	99.5	124.1	89.9	137.0	53.2	109.8	86.7	120.4	78.2	132.1	35.7	97.7	76.6	107.1	68.9	121.3	32.0
	80	112.3	113.8	123.1	110.1	136.2	73.9	108.6	110.1	118.9	100.5	132.1	75.5	96.5	98.0	105.9	88.8	121.3	68.0
4400	85	111.2	112.7	121.8	123.1	135.3	94.5	107.4	108.9	117.5	115.2	130.8	100.9	95.5	97.0	104.7	102.0	120.2	91.2
	90	110.7	112.2	121.2	119.3	134.6	112.0	106.7	108.2	116.9	113.7	129.8	130.5	95.0	96.5	104.2	100.4	119.1	117.6
			Ambie	nt Tem	peratu	re (°F)			Ambie	nt Tem	peratu	re (°F)			Ambie	nt Tem	peratu	re (°F)	
				1	15					1:	<u>. </u>					12	95	. ,	
		Е	Enterin			mp (°F)	E	Enterin			mp (°F)	E	Enterin	g Wet E		mp (°F)
	Ent DB (°	6	1	6	7	7	3	6	1	6	7	7	3	6	:1	6	67 73		3
CFM	F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
<u> </u>	75	84.6	54.9	92.8	49.3	107.6	32.6	81.2	47.1	87.1	63.1	102.8	49.6	36.4	20.6	39.2	28.2	46.7	21.8
3200	80	83.5	71.7	91.6	64.5	106.4	39.0	80.3	62.8	86.0	82.2	101.6	74.2	35.9	28.1	38.7	37.3	46.2	33.5
3200	85	83.0	82.4	91.0	74.3	105.2	49.3	79.6	81.1	85.4	86.9	100.4	66.5	35.6	36.8	38.4	39.5	45.6	29.8
	90	00.7	040	00.0	70.1	105.0	52.2	79.0	80.5	85.2	~~ -	100.0	78.5	35.3	36.5	38.3	39.4	45.4	35.5
	00	82.7	84.2	90.8	78.1	103.0	02.2	70.0		0.2	86.7	100.0	70.0			00.0			
	75	85.9	60.2	94.2	54.2	108.8	34.7	82.5	51.6	88.5	69.1	104.6	62.4	37.0	22.7	39.9	31.1	47.6	27.9
3600	75 80	85.9 84.8	60.2 78.2	94.2 93.0	54.2 70.4	108.8 107.8	34.7 41.9	82.5 81.3	51.6 68.3	88.5 87.3	69.1 88.8	104.6 102.6	62.4 63.0	36.4	22.7 30.7	39.9 39.3	40.4	46.6	28.2
3600	75 80 85	85.9 84.8 84.1	60.2 78.2 85.6	94.2 93.0 92.3	54.2 70.4 81.0	108.8 107.8 107.2	34.7 41.9 57.1	82.5 81.3 80.6	51.6 68.3 82.1	88.5 87.3 86.7	69.1 88.8 88.2	104.6 102.6 102.2	62.4 63.0 81.4	36.4 36.1	22.7 30.7 37.2	39.9 39.3 39.0	40.4 40.1	46.6 46.5	28.2 36.9
3600	75 80 85 90	85.9 84.8 84.1 83.8	60.2 78.2 85.6 85.3	94.2 93.0 92.3 92.0	54.2 70.4 81.0 83.2	108.8 107.8 107.2 106.8	34.7 41.9 57.1 68.2	82.5 81.3 80.6 80.1	51.6 68.3 82.1 81.6	88.5 87.3 86.7 86.3	69.1 88.8 88.2 87.8	104.6 102.6 102.2 102.0	62.4 63.0 81.4 95.5	36.4 36.1 35.8	22.7 30.7 37.2 37.0	39.9 39.3 39.0 38.8	40.4 40.1 40.0	46.6 46.5 46.4	28.2 36.9 43.6
3600	75 80 85 90 75	85.9 84.8 84.1 83.8 87.2	60.2 78.2 85.6 85.3 65.5	94.2 93.0 92.3 92.0 95.6	54.2 70.4 81.0 83.2 59.0	108.8 107.8 107.2 106.8 110.4	34.7 41.9 57.1 68.2 37.3	82.5 81.3 80.6 80.1 85.8	51.6 68.3 82.1 81.6 56.7	88.5 87.3 86.7 86.3 89.8	69.1 88.8 88.2 87.8 75.2	104.6 102.6 102.2 102.0 105.5	62.4 63.0 81.4 95.5 52.7	36.4 36.1 35.8 38.6	22.7 30.7 37.2 37.0 25.2	39.9 39.3 39.0 38.8 40.5	40.4 40.1 40.0 34.0	46.6 46.5 46.4 48.0	28.2 36.9 43.6 23.3
3600	75 80 85 90 75 80	85.9 84.8 84.1 83.8 87.2 86.1	60.2 78.2 85.6 85.3 65.5 84.7	94.2 93.0 92.3 92.0 95.6 94.5	54.2 70.4 81.0 83.2 59.0 76.3	108.8 107.8 107.2 106.8 110.4 109.5	34.7 41.9 57.1 68.2 37.3 51.0	82.5 81.3 80.6 80.1 85.8 84.7	51.6 68.3 82.1 81.6 56.7 75.4	88.5 87.3 86.7 86.3 89.8 88.7	69.1 88.8 88.2 87.8 75.2 90.2	104.6 102.6 102.2 102.0 105.5 104.6	62.4 63.0 81.4 95.5 52.7 76.7	36.4 36.1 35.8 38.6 38.1	22.7 30.7 37.2 37.0 25.2 34.1	39.9 39.3 39.0 38.8 40.5 40.0	40.4 40.1 40.0 34.0 41.1	46.6 46.5 46.4 48.0 47.6	28.2 36.9 43.6 23.3 34.7
	75 80 85 90 75 80 85	85.9 84.8 84.1 83.8 87.2 86.1 85.3	60.2 78.2 85.6 85.3 65.5 84.7 86.8	94.2 93.0 92.3 92.0 95.6 94.5 93.6	54.2 70.4 81.0 83.2 59.0 76.3 87.7	108.8 107.8 107.2 106.8 110.4 109.5 108.7	34.7 41.9 57.1 68.2 37.3 51.0 67.3	82.5 81.3 80.6 80.1 85.8 84.7 84.0	51.6 68.3 82.1 81.6 56.7 75.4 85.5	88.5 87.3 86.7 86.3 89.8 88.7 87.9	69.1 88.8 88.2 87.8 75.2 90.2 89.4	104.6 102.6 102.2 102.0 105.5 104.6 103.8	62.4 63.0 81.4 95.5 52.7 76.7 100.7	36.4 36.1 35.8 38.6 38.1 37.7	22.7 30.7 37.2 37.0 25.2 34.1 38.9	39.9 39.3 39.0 38.8 40.5 40.0 39.6	40.4 40.1 40.0 34.0 41.1 40.7	46.6 46.5 46.4 48.0 47.6 47.2	28.2 36.9 43.6 23.3 34.7 46.1
	75 80 85 90 75 80 85 90	85.9 84.8 84.1 83.8 87.2 86.1 85.3 84.9	60.2 78.2 85.6 85.3 65.5 84.7 86.8 86.4	94.2 93.0 92.3 92.0 95.6 94.5 93.6 93.2	54.2 70.4 81.0 83.2 59.0 76.3 87.7 88.2	108.8 107.8 107.2 106.8 110.4 109.5 108.7 108.2	34.7 41.9 57.1 68.2 37.3 51.0 67.3 83.0	82.5 81.3 80.6 80.1 85.8 84.7 84.0 83.6	51.6 68.3 82.1 81.6 56.7 75.4 85.5 85.1	88.5 87.3 86.7 86.3 89.8 88.7 87.9 87.5	69.1 88.8 88.2 87.8 75.2 90.2 89.4 89.0	104.6 102.6 102.2 102.0 105.5 104.6 103.8 103.8	62.4 63.0 81.4 95.5 52.7 76.7 100.7 104.9	36.4 36.1 35.8 38.6 38.1 37.7 37.5	22.7 30.7 37.2 37.0 25.2 34.1 38.9 38.7	39.9 39.3 39.0 38.8 40.5 40.0 39.6 39.4	40.4 40.1 40.0 34.0 41.1 40.7 40.5	46.6 46.5 46.4 48.0 47.6 47.2 47.2	28.2 36.9 43.6 23.3 34.7 46.1 48.1
	75 80 85 90 75 80 85 90 75	85.9 84.8 84.1 83.8 87.2 86.1 85.3 84.9	60.2 78.2 85.6 85.3 65.5 84.7 86.8 86.4 71.2	94.2 93.0 92.3 92.0 95.6 94.5 93.6 93.2	54.2 70.4 81.0 83.2 59.0 76.3 87.7 88.2	108.8 107.8 107.2 106.8 110.4 109.5 108.7 108.2 112.0	34.7 41.9 57.1 68.2 37.3 51.0 67.3 83.0	82.5 81.3 80.6 80.1 85.8 84.7 84.0 83.6	51.6 68.3 82.1 81.6 56.7 75.4 85.5 85.1 62.3	88.5 87.3 86.7 86.3 89.8 88.7 87.9 87.5	69.1 88.8 88.2 87.8 75.2 90.2 89.4 89.0 81.8	104.6 102.6 102.2 102.0 105.5 104.6 103.8 103.8	62.4 63.0 81.4 95.5 52.7 76.7 100.7 104.9	36.4 36.1 35.8 38.6 38.1 37.7 37.5	22.7 30.7 37.2 37.0 25.2 34.1 38.9 38.7 27.8	39.9 39.3 39.0 38.8 40.5 40.0 39.6 39.4 41.1	40.4 40.1 40.0 34.0 41.1 40.7 40.5 37.1	46.6 46.5 46.4 48.0 47.6 47.2 47.2	28.2 36.9 43.6 23.3 34.7 46.1 48.1
	75 80 85 90 75 80 85 90 75 80	85.9 84.8 84.1 83.8 87.2 86.1 85.3 84.9 88.5 87.4	60.2 78.2 85.6 85.3 65.5 84.7 86.8 86.4 71.2	94.2 93.0 92.3 92.0 95.6 94.5 93.6 93.2 97.0 96.0	54.2 70.4 81.0 83.2 59.0 76.3 87.7 88.2 64.2 82.7	108.8 107.8 107.2 106.8 110.4 109.5 108.7 108.2 112.0 111.2	34.7 41.9 57.1 68.2 37.3 51.0 67.3 83.0 40.1 61.9	82.5 81.3 80.6 80.1 85.8 84.7 84.0 83.6 89.2 88.2	51.6 68.3 82.1 81.6 56.7 75.4 85.5 85.1 62.3 83.2	88.5 87.3 86.7 86.3 89.8 88.7 87.9 87.5 91.1	69.1 88.8 88.2 87.8 75.2 90.2 89.4 89.0 81.8 91.6	104.6 102.6 102.2 102.0 105.5 104.6 103.8 103.8 106.4 106.6	62.4 63.0 81.4 95.5 52.7 76.7 100.7 104.9 44.4 93.2	36.4 36.1 35.8 38.6 38.1 37.7 37.5 40.2 39.8	22.7 30.7 37.2 37.0 25.2 34.1 38.9 38.7 27.8	39.9 39.3 39.0 38.8 40.5 40.0 39.6 39.4 41.1 40.7	40.4 40.1 40.0 34.0 41.1 40.7 40.5 37.1 41.8	46.6 46.5 46.4 48.0 47.6 47.2 47.2 48.5 48.6	28.2 36.9 43.6 23.3 34.7 46.1 48.1 19.3 42.5
4000	75 80 85 90 75 80 85 90 75	85.9 84.8 84.1 83.8 87.2 86.1 85.3 84.9	60.2 78.2 85.6 85.3 65.5 84.7 86.8 86.4 71.2	94.2 93.0 92.3 92.0 95.6 94.5 93.6 93.2	54.2 70.4 81.0 83.2 59.0 76.3 87.7 88.2	108.8 107.8 107.2 106.8 110.4 109.5 108.7 108.2 112.0	34.7 41.9 57.1 68.2 37.3 51.0 67.3 83.0	82.5 81.3 80.6 80.1 85.8 84.7 84.0 83.6	51.6 68.3 82.1 81.6 56.7 75.4 85.5 85.1 62.3	88.5 87.3 86.7 86.3 89.8 88.7 87.9 87.5	69.1 88.8 88.2 87.8 75.2 90.2 89.4 89.0 81.8	104.6 102.6 102.2 102.0 105.5 104.6 103.8 103.8	62.4 63.0 81.4 95.5 52.7 76.7 100.7 104.9	36.4 36.1 35.8 38.6 38.1 37.7 37.5	22.7 30.7 37.2 37.0 25.2 34.1 38.9 38.7 27.8	39.9 39.3 39.0 38.8 40.5 40.0 39.6 39.4 41.1	40.4 40.1 40.0 34.0 41.1 40.7 40.5 37.1	46.6 46.5 46.4 48.0 47.6 47.2 47.2	28.2 36.9 43.6 23.3 34.7 46.1 48.1

- 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

 - SHC = Sensible heat capacity
 Ambient Temperature above 120°F, the system B shuts down.



Table 7. Gross cooling capacities 12.5 tons

			Ambie	ent Tem	nperatu	re (°F)			Δmbie	nt Tem	neratu	re (°F)			Ambie	ent Tem	neratu	re (°F)	
			Allibio		•	16(1)			Allibio	9	•	16(1)			Allibio		•	16(1)	
	Ent	E	Enterin		<u>5</u> Bulb Te	mp (°F)		Enterin			mp (°F	`)	E	Enterin	10 g Wet E		mp (°F)
	DB (°	6			7	7			1	6			<u>, </u>	6		6		7	•
СЕМ	F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh		MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
	75	126.6	104.1	142.7	80.4	158.2	52.0	122.9	102.8	137.8	78.7	149.5	48.8	114.7	99.1	123.6	72.4	139.2	44.8
4000	80	126.3	126.1	142.3	102.9	157.8	74.0	122.8	117.5	137.5	101.8	149.3	71.2	114.5	110.8	123.1	94.9	139.0	66.9
4000	85	125.7	125.7	141.9	125.6	157.5	96.4	122.5	122.5	137.2	122.5	149.1	92.1	114.1	114.1	122.8	115.6	138.8	88.3
	90	125.3	125.3	141.6	141.6	157.2	119.2	122.1	122.1	137.0	134.4	148.7	114.2	113.8	113.8	122.5	122.5	138.6	111.1
	75	129.0	116.1	145.3	89.5	161.0	58.0	125.1	114.7	140.2	87.6	152.6	63.4	116.7	109.9	125.8	80.4	141.9	57.7
4500	80	128.7	128.7	144.9	114.1	160.9	82.0	125.1	125.1	140.0	112.8	151.0	73.9	116.6	116.6	125.3	104.7	140.5	63.0
	85	127.8	127.8	144.2	139.1	160.1	106.8	124.5	124.5	139.5	135.7	152.3	102.8	115.8	115.8	124.8	124.8	141.4	98.1
	90	127.4	127.4	143.8	143.8	159.7	128.4	124.1	124.1	139.2	139.2	151.4	143.8	115.5	115.5	124.5	124.5	141.2	138.8
	75	131.2	127.9	147.9	98.8	163.9	63.9	127.4	126.3	142.8	96.6	154.3	52.3	118.8	117.7	128.1	88.9	143.6	48.1
5000	80	131.1	131.1	147.7	125.1	163.8	90.0	127.5	127.5	142.6	123.8	154.4	92.8	118.2	118.2	127.7	115.4	143.7	79.2
	85	129.9	129.9	146.6	146.6	162.8	117.3	126.6	126.6	141.7	141.7	155.1	131.3	117.8	117.8	126.9	126.9	144.3	125.9
	90	129.4	129.4	146.0	146.0	162.2	137.6	125.9	125.9	141.2	141.2	153.7	153.7	117.3	117.3	126.4	126.4	143.4	143.4
	75	133.5	131.9	150.5	108.8	166.8	70.2	129.6	128.1	145.4	106.3	156.0	42.8	120.8	119.5	130.2	97.7	145.2	39.4
5500	80	132.9	132.9	150.5	137.0	166.7	98.7	129.0	129.0	145.2	135.7	157.9	85.6	120.3	120.3	130.1	126.5	147.0	85.9
	85	132.1	132.1	148.9	148.9	165.4	128.5	128.8	128.8	143.9	143.9	158.1	126.2	119.7	119.7	128.9	128.9	147.1	129.6
	90	131.4	131.4 Ambie	148.2	148.2 1 perat u	164.7	147.3	127.8	127.8 Ambie	143.3 ent Tem	143.3	156.0	156.0	119.1	119.1	128.3 ent Tem	128.3	145.4	145.4
			Allibio		15				Ambie	12	•	10(1)			Amore	12	•	10(1)	
	Ent	E	Enterin		Bulb Te	mp (°F)	ı	Enterin			mp (°F)	E	Enterin	g Wet E		mp (°F)
	DB (°	6		ř	7	7	•		1	6			3	6		6		7	
CFM	F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
	75	99.5	93.4	116.0	67.9	126.1	38.4	94.8	91.4	108.1	64.5	122.5	38.5	48.5	46.5	56.1	42.5	65.1	24.7
4000	80	99.2	99.2	115.7	91.6	125.9	62.2	94.5	94.5	107.8	87.4	122.3	60.1	48.3	48.3	55.9	54.0	64.8	39.6
1000	85	99.0	99.0	115.5	115.1	125.6	86.3	94.3	94.3	107.6	106.9	122.1	81.5	48.0	48.0	55.6	55.6	64.5	55.7
	90	98.7	98.7	115.3	115.3	125.2	110.5	94.1	94.1	107.3	107.3	121.8	102.6	47.8	47.8	55.4	55.4	64.3	64.3
	75	101.2	98.6	118.0	75.5	127.7	41.1	96.5	95.2	110.1	71.5	125.0	49.6	49.4	48.5	57.1	47.1	66.4	31.8
4500	80	100.9	100.9	117.7	97.1	127.8	67.3	95.8	95.8	109.6	95.5	123.7	76.5	49.0	49.0	56.9	56.9	66.1	47.2
	85	100.5	100.5	117.4	117.4	128.3	91.6	95.6	95.6	109.5	108.7	124.6	102.3	48.7	48.7	56.6	56.6	65.8	62.3
	90	100.2	100.2	117.0	117.0	127.7	115.3	95.6	95.6	108.9	108.9	124.6	124.6	48.6	48.6	56.2	56.2	65.6	65.6
	75	103.1	101.6	120.2	83.5	131.0	44.6	101.1	99.9	112.1	79.1	126.3	41.3	51.7	50.2	58.2	52.2	67.1	26.5
5000	80	102.8	102.8	120.0	111.5	130.8	84.2	100.6	100.0	111.8	97.6	126.6	62.5	51.4	51.4	58.0	58.0	67.1	41.2
	85	102.2	102.2	119.4	119.4	130.6	123.1	100.4	100.4	111.3	110.6	127.0	84.5	51.1	51.1	57.5	57.5	67.1	58.5
	90	101.8	101.8		118.9	129.8	186.9	100.1	100.1	110.7	110.7	127.3	106.9	51.1	51.1	57.2	57.2	67.2	67.2
1	75	104.9	103.5	122.3	91.9	132.3	48.3	105.8	104.1	114.0	87.2	127.6	33.8	54.1	52.9	59.2	57.4	67.8	21.7
1					1000	132.7	89.2	105.5	105.5	113.9	99.4	129.5	78.5	53.9	53.9	59.1	59.1	68.6	51.7
5500	80	104.7	104.7	122.3	122.2	-													_
5500	80 85 90	104.7 103.9 103.4	104.7 103.9 103.4	121.4 120.7	121.4 120.7	132.8 131.8	127.4 131.8	105.4 105.1	105.4 105.1	113.1 112.5	113.1 112.5	129.4 129.0	114.3 129.0	53.6 53.2	53.6 53.2	58.5 58.1	58.5 58.1	68.3 68.0	68.3 68.0

- 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
- 4. Ambient Temperature above 120°F, the system B shuts down.

Evaporator Fan Performance

7.5 Tons

Table 8. Belt drive evaporator fan performance - 7.5 tons with low gas heat - GCC90A(3,4)EL - downflow airflow

							Exterr	nal Sta	tic Pre	ssure	(Inche	s of Wa	ater)							
	0	.1	0.	.2	0.	.3	0	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
										5	Standar	d Moto	r							
2400	_	_	_	_	_	_	_	_	_	_	_	_	_	_	725	1.12	748	1.28	773	1.43
2700	_	_	_	_	_	_	_	_	_	_	718	1.26	742	1.39	766	1.51	789	1.64	815	1.76
3000	_	_	_	_	_	_	710	1.25	735	1.37	761	1.49	784	1.61	808	1.74	832	1.86	863	2.02
3300	_	_	_	_	724	1.36	749	1.49	776	1.63	803	1.77	829	1.89	861	2.06	883	2.18	906	2.31
							Exterr	nal Sta	tic Pre	ssure	(Inche	s of Wa	ater)							
	1.	.1	1.	.2	1.	3	1.	.4	1	.5	1	.6	1	.7	1.	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
												High S	tatic (o	versize) Moto	•				
2400	799	1.59	823	1.76	854	1.88	877	2.06	900	2.17	924	2.28	949	2.40	971	2.50	996	2.61	1020	2.71
2700	841	1.88	872	2.04	897	2.16	921	2.27	944	2.38	967	2.50	990	2.62	1013	2.72	1036	2.82	1059	2.93
3000	885	2.13	908	2.25	933	2.36	956	2.48	979	2.59	1002	2.70	1026	2.80	1049	2.91	1073	3.02	_	_
3300	930	2.44	954	2.58	977	2.70	999	2.82	1025	2.93	1048	3.03		_	_			_	_	_

Table 9. Belt drive evaporator fan performance - 7.5 tons with low gas heat - GCC90A(3,4)EL - horizontal airflow

	1						Exter	nal Sta	atic Pre	essure	(Inche	s of W	ater)							
	0.	.1	0.	.2	0.	.3	0.	4	0.	5	0.	6	0.	7	0.	.8	0.	9	1.	0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
									s	tandar	d Moto	r								
2400	_	_	_	_	_	_	_	_	_	_	_	_	_	_	711	1.02	734	1.18	759	1.32
2700	_	_	_	_	_	_	_	_	_	_	_	_	728	1.28	752	1.40	775	1.52	801	1.65
3000	_	_	_	_	_	_	_	_	721	1.26	747	1.39	768	1.51	794	1.64	818	1.76	849	1.91
3300	_	_	_	_	713	1.26	739	1.39	766	1.52	789	1.67	815	1.79	847	1.95	869	2.08	892	2.20
							Exter	nal Sta	atic Pre	essure	(Inche	s of W	ater)							
	1.	.1	1.	.2	1.	.3	1.	4	1.	5	1.	6	1.	7	1.	.8	1.	9	2.	0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
		5	Standar	d Moto	r						1	High St	atic (ov	ersize)) Motor					
2400	776	1.41	809	1.66	840	1.76	863	1.94	885	2.05	909	2.15	934	2.27	956	2.37	981	2.48	1005	2.58
2700	827	1.77	858	1.93	882	2.03	906	2.15	929	2.26	952	2.38	975	2.49	998	2.60	1021	2.69	1044	2.80
3000	871	2.03	894	2.14	918	2.25	943	2.37	966	2.47	988	2.58	1012	2.69	1037	2.79	1061	2.90	1084	3.01
3300	915	2.34	939	2.47	962	2.59	985	2.70	1011	2.81	1034	2.90	1056	3.02	_	_	_	_	_	_

RT-PRC091E-EN 2^o

Table 10. Belt drive evaporator fan performance - 7.5 tons with med gas heat - GCC90A(3,4)EM - downflow airflow

							Exter	nal Sta	atic Pro	essure	(Inche	s of W	ater)							
	0.	.1	0.	.2	0.	.3	0.	4	0.	5	0.	6	0.	7	0.	.8	0.	9	1.	.0
CFM	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
									s	tandar	d Moto	r								
2400	_	_	_	_	_	_	_	_	_	_	_	_	_	_	723	1.11	746	1.27	771	1.41
2700	_	_	_	_	_	_	_	_	_	_	716	1.24	740	1.37	764	1.49	787	1.62	813	1.74
3000	_	_	_	_	_	_	_	_	733	1.36	751	1.39	782	1.60	806	1.73	830	1.85	861	2.00
3300	_	_	_	_	722	1.36	742	1.41	774	1.62	801	1.76	827	1.88	856	2.04	881	2.16	904	2.29
							Exter	nal Sta	atic Pro	essure	(Inche	s of W	ater)							
	1.	.1	1.	.2	1.	.3	1.	4	1.	5	1.	6	1.	7	1.	.8	1.	9	2.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	BHP
		8	tandar	d Moto	r						1	High St	atic (ov	ersize/) Motor	r				
2400	797	1.57	821	1.74	852	1.84	875	2.02	898	2.13	922	2.24	946	2.36	968	2.46	993	2.57	1017	2.67
2700	839	1.86	870	2.02	895	2.13	918	2.23	941	2.35	964	2.47	987	2.58	1010	2.68	1033	2.78	1056	2.89
3000	883	2.11	906	2.23	931	2.34	953	2.45	976	2.56	999	2.67	1023	2.77	1046	2.87	1067	2.99	_	_
3300	928	2.42	952	2.56	974	2.67	996	2.79	1022	2.90	1045	3.01	_	_	_	_	_	_	_	_

Table 11. Belt drive evaporator fan performance - 7.5 tons with med gas heat - GCC90A(3,4)EM - horizontal airflow

							Exter	nal St	atic Pr	essure	e (Inche	es of V	Vater)							
	0	.1	0	.2	0.	.3	0.	4	0	.5	0	.6	0.	.7	0.	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
									5	Standar	rd Moto	r								
2400	_	_	_	_	_	_	_	_	_	_	_	_	713	1.09	737	1.21	760	1.37	785	1.52
2700	_	_	_	_	_	_	_	_	_	_	730	1.35	754	1.48	778	1.60	801	1.73	827	1.85
3000	_	_	_	_	_	_	722	1.34	747	1.46	773	1.58	796	1.70	820	1.83	844	1.95	875	2.11
3300	_	_	_	_	736	1.45	761	1.58	788	1.72	815	1.86	841	1.98	873	2.15	895	2.27	918	2.40
							Exter	nal St	atic Pr	essure	(Inch	es of V	Vater)							
	1	.1	1	.2	1.	.3	1.	4	1	.5	1	.6	1.	.7	1.	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
	5	Standaı	d Moto	r							High S	tatic (o	versize) Moto	r					
2400	811	1.68	835	1.85	866	1.97	889	2.15	912	2.26	936	2.37	961	2.49	983	2.59	1008	2.70	1032	2.80
2700	853	1.97	884	2.13	909	2.25	933	2.36	956	2.47	979	2.59	1002	2.71	1025	2.81	1048	2.91	1071	3.02
3000	897	2.22	920	2.34	945	2.45	968	2.57	991	2.68	1014	2.79	1038	2.89	1061	3.00	_	_	_	_
3300	942	2.53	966	2.67	989	2.79	1011	2.91	1037	3.02	_	_	_	_	_	_	_	_	_	_

Table 12. Belt drive evaporator fan performance - 7.5 tons with high gas heat - GCC90A(3,4)EH - downflow airflow

							Exter	nal St	atic Pr	essure	(Inche	es of V	Vater)							
	0.	.1	0.	.2	0.	.3	0.	4	0	.5	0	.6	0.	.7	0.	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP
									5	Standa	d Moto	r								
2400	_	_	_	_	_	_	_	_	_	_	_	_	_	_	733	1.17	756	1.32	781	1.47
2700	_	_	_	_	_	_	_	_	_	_	726	1.30	750	1.43	774	1.55	797	1.68	823	1.80
3000	_	_	_	_	_	_	718	1.30	743	1.41	760	1.45	792	1.66	816	1.78	840	1.90	871	2.06
3300			_	_	732	1.41	752	1.46	784	1.68	811	1.82	837	1.94	869	2.10	891	2.22	913	2.35
							Exter	nal St	atic Pr	essure	(Inche	es of V	Vater)							
	1.	.1	1.	.2	1.	.3	1.	4	1	.5	1.	.6	1.	.7	1.	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP
	S	Standar	d Moto	r							High St	tatic (o	versize) Moto	r					
2400	807	1.63	831	1.80	862	1.96	884	2.08	907	2.19	931	2.30	956	2.42	978	2.52	1003	2.63	1027	2.73
2700	849	1.92	879	2.08	904	2.18	928	2.29	951	2.41	974	2.52	997	2.63	1020	2.74	1043	2.84	1066	2.95
3000	893	2.17	915	2.29	940	2.39	963	2.51	986	2.62	1009	2.73	1033	2.82	1056	2.93	1078	3.05	_	_
3300	937	2.48	961	2.61	984	2.73	1006	2.85	1032	2.96	1055	3.07	_	_	_	_	_	_	_	_

Table 13. Belt drive evaporator fan performance - 7.5 tons with high gas heat - GCC90A(3,4)EH - horizontal airflow

							Exter	nal St	atic Pr	essure	(Inch	es of V	Vater)							
	0	.1	0	.2	0.	.3	0.	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
									5	Standa	rd Moto	r								
2400	_	_	_	_	_	_	_	_	_	_	_	_	723	1.15	747	1.27	770	1.43	795	1.58
2700	_	_	_	_	_	_	_	_	716	1.29	740	1.41	764	1.54	788	1.66	811	1.79	837	1.91
3000	_	_	_	_	_	_	732	1.40	757	1.52	783	1.64	806	1.76	830	1.89	854	2.01	885	2.17
3300	_	_	_	_	746	1.51	771	1.64	798	1.78	825	1.92	851	2.04	883	2.21	905	2.33	928	2.46
							Exter	rnal St	atic Pr	essure	(Inch	es of V	Vater)							
	1	.1	1	.2	1.	.3	1.	.4	1	.5	1	.6	1	.7	1	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP
	5	Standa	rd Moto	r							High S	tatic (o	versize) Moto	r					
2400	821	1.74	845	1.91	876	2.09	899	2.21	922	2.32	946	2.43	971	2.55	993	2.65	1018	2.76	1042	2.86
2700	863	2.03	894	2.19	919	2.31	943	2.42	966	2.53	989	2.65	1012	2.77	1035	2.87	1058	2.97	1081	3.08
3000	907	2.28	930	2.40	955	2.51	978	2.63	1001	2.74	1024	2.85	1048	2.95	1071	3.06	_	_	_	_
3300	952	2.59	976	2.73	999	2.85	1021	2.97	1047	3.08	_	_	_	_	_	_	_	_	_	

Table 14. Belt drive evaporator fan performance - 7.5 tons cooling only - ECC150A(3,4)E0 - downflow airflow

							Exte	rnal St	atic Pr	essure	(Inche	es of V	Vater)							
	0	.1	0	.2	0	.3	0	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standar	d Moto	r								
2400	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	714	1.05	739	1.20
2700	_	_	_	_	_	_	_	_	_	_	_	_	_	_	732	1.27	755	1.40	781	1.52
3000	_	_	_	_	_	_	_	_	_	_	727	1.26	750	1.38	774	1.50	799	1.62	828	1.75
3300	-	_	_	_	_	_	715	1.26	742	1.40	769	1.53	794	1.65	826	1.79	848	1.95	871	2.08
							Exte	nal St	atic Pr	essure	(Inche	es of V	Vater)							
	1	.1	1	.2	1.	.3	1.	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
			5	Standa	d Moto	r							High S	tatic (o	versize) Moto	r			
2400	765	1.35	789	1.51	820	1.64	843	1.76	866	1.93	889	2.03	914	2.15	936	2.25	961	2.36	985	2.46
2700	800	1.58	837	1.77	862	1.92	886	2.03	909	2.14	932	2.25	955	2.37	978	2.47	1001	2.57	1024	2.68
3000	850	1.87	873	2.02	898	2.12	921	2.24	944	2.35	967	2.46	991	2.56	1014	2.66	1038	2.77	1060	2.89
3300	895	2.20	919	2.34	942	2.46	964	2.58	990	2.68	1013	2.78	1038	2.89	1051	3.01	-	_	_	_

Table 15. Belt drive evaporator fan performance - 7.5 tons cooling only - ECC150A(3,4)E0 - horizontal airflow

						E	xterna	l Static	Press	ure (In	ches	of Wate	er)						
0	.1	0	.2	0	.3	0.	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
								8	Standaı	rd Moto	r								
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	728	1.15	753	1.30
_	_	_	_	_	_	_	_	_	_	_	_	722	1.26	746	1.38	769	1.51	795	1.63
_	_	_	_	_	_	_	_	715	1.24	741	1.36	764	1.48	788	1.61	812	1.73	843	1.85
_	_	_	_	_	_	729	1.36	756	1.50	783	1.64	809	1.76	841	1.89	863	2.05	886	2.18
						E	xterna	l Static	Press	ure (In	ches	of Wate	er)						
1.	.1	1	.2	1	.3	1.	.4	1	.5	1	.6	1	.7	1	.8	1.	.9	2	.0
RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
		5	Standa	rd Moto	r							High S	tatic (o	versize) Moto	r			
779	1.46	803	1.63	834	1.75	857	1.87	880	2.04	904	2.15	929	2.27	951	2.37	976	2.48	1000	2.58
821	1.75	852	1.88	877	2.03	901	2.14	924	2.25	947	2.37	970	2.49	993	2.59	1016	2.69	1039	2.80
865	1.97	888	2.12	913	2.23	936	2.35	959	2.46	982	2.57	1006	2.67	1029	2.78	1053	2.89	1075	3.01
910	2.31	934	2.45	957	2.57	979	2.69	1005	2.80	1028	2.90	1053	3.01	_	_	_	_	_	_
	### RPM	1.1 RPM BHP 779 1.46 821 1.75 865 1.97	RPM BHP RPM — — — — — — — — — — — — — — — RPM BHP RPM 803 821 1.46 803 821 1.75 852 865 1.97 888	RPM BHP RPM BHP — — — — — — — — — — — — — — — — — — — — — — — — RPM BHP RPM BHP Standar 779 1.46 803 1.63 821 1.75 852 1.88 865 1.97 888 2.12	RPM BHP RPM BHP RPM — — — — — — — — — — — — — — — — — — — — — — — — — RPM BHP RPM BHP RPM Standard Motor 779 1.46 803 1.63 834 821 1.75 852 1.88 877 865 1.97 888 2.12 913	RPM BHP RPM BHP RPM BHP — — — — — — — — — — — — — — — — — — — — — — — — RPM BHP RPM BHP RPM BHP 779 1.46 803 1.63 834 1.75 821 1.75 852 1.88 877 2.03 865 1.97 888 2.12 913 2.23	0.1 0.2 0.3 0 RPM BHP RPM BHP RPM	0.1 0.3 0.4 RPM BHP RPM BHP RPM BHP RPM BHP — — — — — — — — — —	0.1 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.5 0.4 <th< td=""><td>0.1 0.2 0.3 0.4 0.5 RPM BHP Standard — <t< td=""><td>0.1 0.2 0.3 0.4 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.4 0 0.4 0 0.4 New Motor External Static Pressure (Internal Static Pressure) Internal Static Pressure (Internal Static Pressure) Internal Static Pressure (Internal Static Pressure) 1.1 N.1 1.3 1.4 1.5 1 RPM BHP RPM BHP</td><td>0.1 0.2 0.3 0.4 0.5 0.6 RPM BHP <th< td=""><td>0.1 0.2 0.3 0.4 0.5 0.6 0 RPM BHP RPM</td><td>RPM BHP RPM BHP RPM</td></th<></td></t<><td>0.1 0.2 0.3 0.4 0.5 0.6 0.7 0 RPM BHP RPM BHP</td><td> Note /td><td> Note /td><td> Note /td><td> Note /td></td></th<>	0.1 0.2 0.3 0.4 0.5 RPM BHP Standard — <t< td=""><td>0.1 0.2 0.3 0.4 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.4 0 0.4 0 0.4 New Motor External Static Pressure (Internal Static Pressure) Internal Static Pressure (Internal Static Pressure) Internal Static Pressure (Internal Static Pressure) 1.1 N.1 1.3 1.4 1.5 1 RPM BHP RPM BHP</td><td>0.1 0.2 0.3 0.4 0.5 0.6 RPM BHP <th< td=""><td>0.1 0.2 0.3 0.4 0.5 0.6 0 RPM BHP RPM</td><td>RPM BHP RPM BHP RPM</td></th<></td></t<> <td>0.1 0.2 0.3 0.4 0.5 0.6 0.7 0 RPM BHP RPM BHP</td> <td> Note /td> <td> Note /td> <td> Note /td> <td> Note /td>	0.1 0.2 0.3 0.4 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.5 0 0.4 0 0.4 0 0.4 New Motor External Static Pressure (Internal Static Pressure) Internal Static Pressure (Internal Static Pressure) Internal Static Pressure (Internal Static Pressure) 1.1 N.1 1.3 1.4 1.5 1 RPM BHP RPM BHP	0.1 0.2 0.3 0.4 0.5 0.6 RPM BHP RPM BHP <th< td=""><td>0.1 0.2 0.3 0.4 0.5 0.6 0 RPM BHP RPM</td><td>RPM BHP RPM BHP RPM</td></th<>	0.1 0.2 0.3 0.4 0.5 0.6 0 RPM BHP RPM	RPM BHP RPM	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0 RPM BHP RPM BHP	Note Note	Note Note	Note Note	Note Note

8.5 Tons

Table 16. Belt drive evaporator fan performance - 8.5 tons with low gas heat - GCC102A(3,4)EL - downflow airflow

							Exter	rnal St	atic Pr	essure	(Inch	es of V	Vater)							
	0	.1	0.	.2	0.	.3	0.	.4	0	.5	0	.6	0.	.7	0.	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standar	d Moto	r								
2700	_	_	_	_	_	_	_	_	_	_	752	1.17	779	1.34	804	1.50	830	1.66	855	1.82
3050	_	_	_	_	_	_	_	_	745	1.18	771	1.35	796	1.52	820	1.69	845	1.86	878	2.18
3400	_	_	_	_	748	1.29	773	1.44	797	1.59	821	1.77	845	1.94	876	2.29	898	2.46	920	2.62
3750	747	1.45	773	1.62	799	1.78	824	1.95	847	2.12	875	2.45	897	2.61	919	2.75	941	2.91	963	3.05
							Exter	nal St	atic Pr	essure	(Inch	es of V	Vater)							
	1	.1	1.	.2	1.	.3	1.	.4	1	.5	1	.6	1.	.7	1.	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
	Stan Mo									High S	tatic (o	versize) Motor	•						
2700	878	1.95	910	2.21	932	2.30	954	2.43	977	2.57	999	2.70	1021	2.82	1043	2.96	1065	3.09	1087	3.21
3050	900	2.34	922	2.49	944	2.60	966	2.72	988	2.85	1010	2.95	1032	3.04	1054	3.14	1076	3.22	1098	3.30
3400	942	2.77	964	2.89	986	3.00	1008	3.09	1025	3.20	1051	3.30	1072	3.39	1095	3.47	1117	3.55	1140	3.66
3750	985	3.20	1007	3.31	1029	3.41	1051	3.52	1071	3.63	1092	3.71	1116	3.82	1135	3.91	1158	4.01	1181	4.08

Table 17. Belt drive evaporator fan performance - 8.5 tons with low gas heat - GCC102A(3,4)EL - horizontal airflow

							Exter	nal St	atic Pr	essure	(Inche	es of W	/ater)							
	0	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0.	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standaı	d Moto	r								
2700	-	_	_	_	_	_	_	_	_	_	_	_	742	1.25	766	1.40	790	1.55	814	1.70
3050	-	_	_	_	_	_	_	_	_	_	734	1.26	758	1.42	781	1.58	805	1.74	836	2.04
3400	_	_	_	_	_	_	736	1.35	759	1.49	782	1.65	805	1.81	834	2.14	855	2.30	876	2.45
3750	-	_	736	1.51	761	1.66	785	1.82	807	1.98	833	2.29	854	2.44	875	2.57	896	2.72	917	2.85
							Exter	nal St	atic Pr	essure	(Inche	es of W	/ater)							
	1	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1.	.7	1	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
	Stan Mo								I	High S	tatic (o	versize) Motor	•						
2700	836	1.82	867	2.07	888	2.15	909	2.27	930	2.40	951	2.52	972	2.64	993	2.77	1014	2.89	1035	3.00
3050	857	2.19	878	2.33	899	2.43	920	2.54	941	2.66	962	2.76	983	2.84	1004	2.93	1025	3.01	1046	3.08
3400	897	2.59	918	2.70	939	2.80	962	2.89	983	2.99	1001	3.08	1022	3.17	1042	3.24	1068	3.32	1084	3.42
3750	938	2.99	959	3.09	980	3.19	1002	3.29	1022	3.39	1042	3.47	1063	3.57	1081	3.65	1103	3.75	1123	3.81

Table 18. Belt drive evaporator fan performance - 8.5 tons with med gas heat - GCC102A(3,4)EM- downflow airflow

							Ex	ternal	Static	Press	ure (Ir	ches	of Wat	er)						
	0.	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0	.7	0	.8	0.	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									S	tandaı	d Moto	r								
2700	_	_	_	_	_	_	_	_	735	1.21	762	1.36	789	1.52	814	1.68	839	1.83	863	1.98
3050	_	_	_	_	_	_	_	_	771	1.35	796	1.52	820	1.69	845	1.86	878	2.18	900	2.34
3400	_	_	732	1.33	758	1.47	783	1.63	807	1.77	830	1.93	862	2.18	884	2.43	906	2.59	927	2.74
3750	755	1.64	783	1.79	809	1.94	833	2.11	861	2.43	883	2.58	904	2.73	926	2.87	948	3.02	969	3.15
							Ex	ternal	Static	Press	ure (Ir	ches	of Wat	er)						
	1.	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1	.7	1.	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
	Stan Mo								ŀ	ligh St	atic (o	versize) Moto	r						
2700	896	2.19	918	2.36	939	2.44	961	2.56	983	2.69	1004	2.82	1026	2.94	1048	3.07	1069	3.19	1091	3.30
3050	922	2.49	944	2.60	966	2.72	988	2.85	1010	2.95	1032	3.04	1054	3.14	1076	3.22	1098	3.30	1102	3.38
3400	949	2.89	970	3.00	992	3.10	1014	3.19	1035	3.29	1057	3.38	1078	3.47	1100	3.55	1122	3.63	1143	3.73
3750	991	3.29	1013	3.40	1034	3.50	1056	3.60	1077	3.70	1099	3.78	1121	3.88	1142	3.96	1164	4.05	1185	4.13

Table 19. Belt drive evaporator fan performance - 8.5 tons with med gas heat - GCC102A(3,4)EM- horizontal airflow

							Exter	nal St	atic Pr	essure	(Inche	es of W	Vater)							
	0	.1	0.	.2	0	.3	0.	.4	0	.5	0	.6	0	.7	0	.8	0.	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standaı	d Moto	r								
2700	_	_	_	_	_	_	_	_	_	_	_	_	752	1.42	775	1.57	799	1.71	822	1.85
3050	_	_	_	_	_	_	_	_	_	_	744	1.43	767	1.59	790	1.74	823	2.02	844	2.18
3400	_	_	_	_	_	_	746	1.52	768	1.65	791	1.81	821	2.04	842	2.27	862	2.42	883	2.57
3750	_	_	746	1.67	770	1.81	794	1.98	820	2.27	841	2.41	861	2.56	882	2.68	903	2.82	923	2.94
							Exter	nal St	atic Pr	essure	(Inche	es of W	Vater)							
	1	.1	1.	.2	1	.3	1.	.4	1	.5	1	.6	1	.7	1.	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
	Stan Mo	dard tor								High S	tatic (o	versize) Moto	r						
2700	854	2.05	874	2.20	895	2.28	915	2.39	936	2.52	956	2.63	977	2.75	998	2.87	1018	2.98	1039	3.09
3050	864	2.32	885	2.45	906	2.55	926	2.65	947	2.76	967	2.86	988	2.94	1008	3.02	1029	3.10	1050	3.16
3400	904	2.70	924	2.80	945	2.90	965	2.98	986	3.08	1006	3.16	1027	3.24	1048	3.32	1068	3.39	1089	3.49
3750	944	3.08	964	3.17	985	3.27	1005	3.36	1026	3.46	1047	3.53	1067	3.63	1088	3.70	1108	3.78	1129	3.86

Table 20. Belt drive evaporator fan performance - 8.5 tons with high gas heat - GCC102A(3,4)EH - downflow airflow

							E	xterna	Static	Press	ure (In	ches d	of Wate	r)						
	0	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0.	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	
								5	Standar	d Moto	or								(ove	Static rsize) otor
2700	_	_	_	_	_	_	_	_	753	1.28	780	1.44	805	1.61	831	1.77	856	1.93	881	2.09
3050	_	_	_	_	_	_	742	1.35	774	1.47	797	1.62	822	1.79	846	1.96	882	2.28	904	2.45
3400	_	_	744	1.44	775	1.57	799	1.71	823	1.86	847	2.03	880	2.39	902	2.56	924	2.73	946	2.89
3750	773	1.72	799	1.88	825	2.04	851	2.23	879	2.56	901	2.72	923	2.88	945	3.02	967	3.18	989	3.32
							E	xterna	Static	Press	ure (In	ches d	of Wate	r)						
	1	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1.	.7	1	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	tatic (o	versize) Moto	r							
2700	915	2.33	937	2.48	959	2.57	981	2.70	1003	2.84	1025	2.96	1047	3.09	1069	3.23	1091	3.36	1113	3.48
3050	926	2.61	948	2.76	970	2.87	992	2.99	1014	3.11	1036	3.22	1058	3.31	1080	3.40	1103	3.49	1125	3.56
3400	968	3.04	990	3.16	1012	3.26	1034	3.36	1056	3.47	1078	3.56	1100	3.65	1122	3.73	1145	3.82	1167	3.93
3750	1011	3.47	1033	3.57	1055	3.68	1077	3.79	1099	3.89	1121	3.98	1143	4.09	1166	4.17	1188	4.26	1210	4.34

Table 21. Belt drive evaporator fan performance - 8.5 tons with high gas heat - GCC102A(3,4)EH - horizontal airflow

							Exter	nal St	atic Pr	essure	(Inche	es of W	/ater)							
	0	.1	0.	.2	0	.3	0.	.4	0.	.5	0	.6	0.	.7	0	.8	0.	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standa	d Moto	r								
2700	_	_	_	_	_	_	_	_	_	_	743	1.35	767	1.50	791	1.65	815	1.80	839	1.95
3050	_	_	_	_	_	_	_	_	737	1.37	759	1.51	783	1.67	806	1.83	840	2.13	861	2.29
3400	_	_	_	_	738	1.47	761	1.60	784	1.74	807	1.90	838	2.23	859	2.39	880	2.55	901	2.70
3750	736	1.61	761	1.76	786	1.91	810	2.08	837	2.39	858	2.54	879	2.69	900	2.82	921	2.97	942	3.10
	•						Exter	nal St	atic Pr	essure	(Inche	es of W	/ater)							
	1	.1	1.	.2	1	.3	1.	.4	1.	.5	1	.6	1.	.7	1	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	tatic (o	versize) Moto	r							
2700	871	2.18	892	2.32	913	2.40	934	2.52	955	2.65	976	2.77	997	2.89	1018	3.02	1039	3.14	1060	3.25
3050	882	2.44	903	2.58	924	2.68	945	2.79	966	2.91	987	3.01	1008	3.09	1029	3.18	1050	3.26	1071	3.33
3400	922	2.84	943	2.95	964	3.05	985	3.14	1006	3.24	1027	3.33	1048	3.41	1069	3.49	1090	3.57	1111	3.67
3750	963	3.24	984	3.34	1005	3.44	1026	3.54	1047	3.64	1068	3.72	1089	3.82	1110	3.90	1131	3.98	1152	4.06

Table 22. Belt drive evaporator fan performance - 8.5 tons cooling only - ECC102A(3,4)E0 - downflow airflow

							Exter	nal St	atic Pr	essure	(Inche	es of W	/ater)							
	0	.1	0	.2	0	.3	0.	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standaı	d Moto	r								
2700	_	_	_	_	_	_	_	_	_	_	_	_	745	1.14	763	1.31	788	1.45	810	1.59
3050	_	_	_	_	_	_	_	_	732	1.22	753	1.38	775	1.49	799	1.64	819	1.80	840	1.94
3400	_	_	_	_	_	_	745	1.39	766	1.56	794	1.71	817	1.87	842	2.03	866	2.20	892	2.46
3750	_	_	733	1.52	756	1.67	784	1.81	801	1.93	828	2.09	853	2.25	877	2.52	902	2.68	927	2.82
							Exter	nal St	atic Pr	essure	(Inche	es of W	/ater)							
	1	.1	1.	.2	1	.3	1.	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
	5	Standar	d Moto	r							High S	tatic (o	versize) Moto	r					
2700	828	1.75	848	1.91	876	2.08	899	2.34	921	2.46	945	2.57	968	2.68	992	2.78	1016	2.88	1039	2.98
3050	867	2.22	890	2.35	915	2.47	934	2.59	958	2.70	980	2.80	1005	2.91	1028	3.01	1052	3.11	1073	3.20
3400	918	2.61	939	2.73	960	2.85	986	2.97	1008	3.08	1031	3.17	1050	3.27	1073	3.37	1090	3.47	1113	3.56
3750	951	2.95	974	3.08	994	3.19	1011	3.31	1035	3.42	1054	3.53	1076	3.63	1096	3.73	1120	3.83	1138	3.93

Table 23. Belt drive evaporator fan performance - 8.5 tons cooling only - ECC102A(3,4)E0 - horizontal airflow

							E	xterna	l Static	Press	ure (In	ches d	of Wate	er)						
	0.	.1	0	.2	0	.3	0	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standa	rd Moto	r								
2700	_	_	_	_	_	_	_	_	_	_	_	_	_	_	741	1.25	765	1.38	786	1.52
3050	_	_	_	_	_	_	_	_	_	_	731	1.31	752	1.42	776	1.56	795	1.71	816	1.85
3400	_	_	_	_	_	_	_	_	744	1.49	771	1.63	793	1.78	817	1.93	841	2.09	866	2.34
3750	_	_	_	_	734	1.59	761	1.72	778	1.84	804	1.99	828	2.14	851	2.40	876	2.55	900	2.69
							E	xterna	l Static	Press	ure (In	ches d	of Wate	er)						
	1	.1	1	.2	1	.3	1	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
		5	Standar	rd Moto	or							High S	tatic (o	versize) Moto	r				
2700	804	1.66	823	1.82	845	1.98	873	2.23	894	2.34	917	2.45	940	2.55	963	2.65	986	2.74	1009	2.84
3050	842	2.11	864	2.24	888	2.35	907	2.46	930	2.57	951	2.67	976	2.77	998	2.86	1021	2.96	1042	3.05
3400	891	2.48	912	2.60	932	2.72	957	2.83	979	2.93	1001	3.02	1019	3.12	1042	3.21	1058	3.30	1081	3.39
3750	923	2.81	946	2.93	965	3.04	982	3.15	1005	3.26	1023	3.36	1045	3.46	1064	3.55	1087	3.65	1105	3.74

10 Tons

Table 24. Belt drive evaporator fan performance - 10 tons with low gas heat - GCC120A(3,4)EL - downflow airflow

							Exter	nal Sta	atic Pr	essure	(Inche	s of W	later)							
	0	.1	0.	.2	0	.3	0.	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									5	Standar	d Moto	r								
3200	_	_	_	_	_	_	_	_	737	1.34	761	1.49	785	1.64	809	1.79	833	1.94	857	2.09
3600	_	_	_	_	739	1.46	760	1.58	782	1.72	804	1.86	828	2.02	851	2.18	875	2.34	906	2.64
4000	737	1.59	760	1.71	782	1.86	805	1.99	828	2.13	851	2.29	874	2.45	903	2.78	924	2.94	945	3.09
4400	780	2.03	805	2.18	830	2.33	854	2.49	876	2.65	902	2.96	923	3.11	944	3.24	965	3.39	986	3.52
							Exter	nal Sta	atic Pr	essure	(Inche	s of W	later)							
	1.	.1	1.	.2	1	.3	1.	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Stan Mo	dard tor								High S	tatic (o	versize) Moto	r						
3200	879	2.21	910	2.46	931	2.54	952	2.66	973	2.79	994	2.91	1015	3.03	1036	3.16	1057	3.28	1078	3.39
3600	927	2.79	948	2.93	969	3.03	990	3.14	1011	3.26	1032	3.36	1053	3.44	1074	3.53	1095	3.61	1116	3.68
4000	966	3.23	987	3.34	1008	3.44	1031	3.53	1052	3.63	1072	3.72	1093	3.81	1116	3.88	1137	3.96	1159	4.06
4400	1007	3.66	1028	3.76	1049	3.86	1071	3.96	1092	4.06	1113	4.14	1135	4.24	1156	4.32	1178	4.42	1201	4.48

Table 25. Belt drive evaporator fan performance - 10 tons with low gas heat - GCC120A(3,4)EL - horizontal airflow

							Exterr	nal Sta	tic Pre	ssure	(Inche	s of W	ater)							
	0.	.1	0.	.2	0.	.3	0	.4	0	.5	0.	.6	0.	.7	0	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									5	Standaı	rd Moto	r								
3200	_	_	_	_	_	_	729	1.36	753	1.51	777	1.66	801	1.81	825	1.96	849	2.11	873	2.26
3600	_	_	733	1.52	755	1.62	776	1.75	798	1.89	820	2.03	844	2.19	867	2.35	891	2.53	922	2.81
4000	753	1.76	776	1.88	798	2.02	821	2.16	844	2.31	867	2.45	892	2.61	919	2.95	940	3.11	961	3.26
4400	796	2.21	821	2.35	846	2.51	866	2.67	887	2.84	918	3.13	939	3.28	960	3.42	981	3.56	1002	3.69
							Exterr	nal Sta	tic Pre	ssure	(Inche	s of W	ater)							
	1.	.1	1.	.2	1.	.3	1	.4	1	.5	1.	.6	1.	.7	1.	.8	1	.9	2	.0
CFM	RPM		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Stan Mo	dard tor								High S	tatic (o	versize) Moto	r						
3200	905	2.49	926	2.61	947	2.72	968	2.83	989	2.96	1010	3.08	1031	3.2	1052	3.33	1073	3.45	1094	3.56
3600	943	2.96	964	3.09	985	3.22	1006	3.32	1027	3.43	1048	3.53	1069	3.62	1090	3.69	1111	3.78	1132	3.85
4000	982	3.39	1003	3.51	1024	3.61	1045	3.69	1066	3.81	1087	3.89	1108	3.97	1129	4.05	1150	4.13	1171	4.22
4400	1023	3.82	1044	3.93	1065	4.03	1086	4.13	1107	4.23	1128	4.32	1149	4.41	1170	4.49	1191	4.57	1212	4.65

Table 26. Belt drive evaporator fan performance - 10 tons with med gas heat - GCC120A(3,4)EM- downflow airflow

-							Extern	al Sta	tic Pre	ssure	(Inche	s of W	ater)							
	0.	.1	0.	.2	0	.3	0.	4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									5	Standaı	rd Moto	r								
3200	_	_	_	_	_	_	738	1.44	762	1.59	786	1.74	810	1.89	834	2.04	858	2.19	882	2.34
3600	_	_	742	1.59	764	1.71	785	1.83	807	1.97	829	2.11	853	2.27	876	2.43	910	2.73	931	2.89
4000	762	1.84	785	1.96	807	2.11	830	2.24	853	2.38	876	2.54	907	2.87	928	3.03	949	3.19	970	3.34
4400	805	2.28	830	2.43	855	2.58	879	2.75	906	3.06	927	3.21	948	3.36	969	3.49	990	3.64	1011	3.77
							Extern	ıal Sta	tic Pre	ssure	(Inche	s of W	ater)							
	1.	.1	1.	.2	1.	.3	1.	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									High S	tatic (o	versize) Moto	r							
3200	914	2.57	935	2.71	956	2.79	977	2.91	998	3.04	1019	3.16	1040	3.28	1061	3.41	1082	3.53	1103	3.64
3600	952	3.04	973	3.18	994	3.28	1015	3.39	1036	3.51	1057	3.61	1078	3.69	1099	3.78	1120	3.86	1141	3.93
4000	991	3.48	1012	3.59	1033	3.69	1054	3.78	1075	3.88	1096	3.97	1117	4.05	1138	4.13	1159	4.21	1180	4.31
4400	1032	3.91	1053	4.01	1074	4.11	1095	4.21	1116	4.31	1137	4.39	1158	4.49	1179	4.57	1200	4.65	1221	4.73

Table 27. Belt drive evaporator fan performance - 10 tons with med gas heat - GCC120A(3,4)EM - horizontal airflow

-							Extern	nal Sta	tic Pre	ssure	(Inche	s of W	ater)							
	0.	.1	0.	.2	0	.3	0.	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									S	Standaı	d Moto	r								
3200	_	_	_	_	_	_	754	1.62	778	1.77	802	1.92	826	2.07	850	2.22	874	2.37	898	2.52
3600	736	1.67	758	1.78	780	1.88	801	2.01	823	2.15	845	2.29	869	2.45	892	2.61	926	2.91	947	3.07
4000	778	2.02	801	2.14	823	2.28	846	2.42	869	2.56	902	2.88	923	3.05	944	3.21	965	3.37	986	3.52
4400	821	2.46	846	2.61	871	2.76	901	3.08	922	3.24	943	3.39	964	3.54	985	3.68	1006	3.82	1027	3.95
							Extern	nal Sta	tic Pre	ssure	(Inche	s of W	ater)							
	1.	.1	1.	.2	1.	.3	1.	.4	1	.5	1	.6	1	.7	1.	.8	1	.9	2	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
						,			High St	tatic (o	versize) Moto	r			,				
3200	930	2.75	951	2.88	972	2.98	993	3.09	1014	3.22	1035	3.34	1056	3.46	1077	3.59	1098	3.71	1119	3.82
3600	968	3.22	989	3.35	1010	3.47	1031	3.58	1052	3.69	1073	3.79	1094	3.88	1115	3.96	1136	4.04	1157	4.11
4000	1007	3.66	1028	3.77	1049	3.87	1070	3.96	1091	4.06	1112	4.15	1133	4.23	1154	4.31	1175	4.39	1196	4.48
4400	1048	4.08	1069	4.19	1090	4.29	1111	4.39	1132	4.49	1153	4.58	1174	4.67	1195	4.75	1216	4.83	1237	4.91

Table 28. Belt drive evaporator fan performance - 10 tons with high gas heat - GCC120A(3,4)EH - downflow airflow

	0.	.1	0.	2	0	.3	0	.4	0	.5	0	.6	0.	.7	0.	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									S	Standaı	rd Moto	r								
3200	 	_	_	_	_	_	738	1.44	762	1.59	786	1.74	810	1.89	834	2.04	858	2.19	882	2.34
3600	_	_	742	1.59	764	1.71	785	1.83	807	1.97	829	2.11	853	2.27	876	2.43	910	2.73	931	2.89
4000	762	1.84	785	1.96	807	2.11	830	2.24	853	2.38	876	2.54	907	2.87	928	3.03	949	3.19	970	3.34
4400	805	2.28	830	2.43	855	2.58	879	2.75	906	3.06	927	3.21	948	3.36	969	3.49	990	3.64	1011	3.77
	1.	.1	1.	2	1.	.3	1	.4	1	.5	1.	.6	1.	.7	1.	.8	1	.9	2	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									High St	tatic (o	versize) Moto	r							
3200	914	2.57	935	2.71	956	2.79	977	2.91	998	3.04	1019	3.16	1040	3.28	1061	3.41	1082	3.53	1103	3.64
3600	952	3.04	973	3.18	994	3.28	1015	3.39	1036	3.51	1057	3.61	1078	3.69	1099	3.78	1120	3.86	1141	3.93
4000	991	3.48	1012	3.59	1033	3.69	1054	3.78	1075	3.88	1096	3.97	1117	4.05	1138	4.13	1159	4.21	1180	4.31
4400	1032	3.91	1053	4.01	1074	4.11	1095	4.21	1116	4.31	1137	4.39	1158	4.49	1179	4.57	1200	4.65	1221	4.73

Table 29. Belt drive evaporator fan performance - 10 tons with high gas heat - GCC120A(3,4)EH - horizontal airflow

	0	.1	0.	.2	0	.3	0	.4	0	.5	0	6	0.	7	0.	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									S	Standaı	d Moto	r								
3200	_	_	_	_	_	_	754	1.62	778	1.77	802	1.92	826	2.07	850	2.22	874	2.37	898	2.52
3600	736	1.67	758	1.78	780	1.88	801	2.01	823	2.15	845	2.29	869	2.45	892	2.61	926	2.91	947	3.07
4000	778	2.02	801	2.14	823	2.28	846	2.42	869	2.56	902	2.88	923	3.05	944	3.21	965	3.37	986	3.52
4400	821	2.46	846	2.61	871	2.76	901	3.08	922	3.24	943	3.39	964	3.54	985	3.68	1006	3.82	1027	3.95
	1.	.1	1.	.2	1.	.3	1.	.4	1	.5	1.	6	1.	7	1.	.8	1.	.9	2	.0
CFM	RPM	.1 BHP	1. RPM	.2 BHP	1. RPM	3 BHP	1. RPM		1 RPM		1. RPM	6 BHP	1. RPM	-	1. RPM		1. RPM	.9 BHP	_	.0 BHP
CFM		-		_			-	ВНР	RPM	ВНР		ВНР	RPM	-			-	-	_	
CFM 3200		-		_			-	ВНР	RPM	ВНР	RPM	ВНР	RPM	-			-	-	_	
	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM High St	BHP tatic (o	RPM versize	BHP) Motor	RPM r	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
3200	RPM 930	2.75	RPM 951	2.88	RPM 972	2.98	RPM 993	BHP 3.09	RPM High St	BHP tatic (o	RPM versize	BHP) Motor 3.34	RPM r 1056	BHP 3.46	RPM 1077	BHP 3.59	RPM	BHP 3.71	RPM 1119	3.82

Table 30. Belt drive evaporator fan performance - 10 tons cooling only - ECC120A(3,4)E0 - downflow airflow

							Exter	nal St	atic Pr	essure	(Inch	es of V	Vater)							
	0	.1	0.	.2	0	.3	0.	.4	0	.5	0	.6	0.	7	0.	.8	0.	.9	1.	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									5	Standa	rd Moto	r			,					
3200	_	_	_	_	_	_	_	_	_	_	_	_	758	1.55	782	1.69	807	1.84	833	2.01
3600	_	_	_	_	_	_	_	_	736	1.55	770	1.83	798	1.95	820	2.09	845	2.26	870	2.41
4000	_	_	_	_	_	_	752	1.85	782	2.06	809	2.21	836	2.37	860	2.54	882	2.71	914	2.99
4400	_	_	745	2.08	772	2.19	799	2.34	825	2.47	852	2.63	876	2.79	909	3.08	934	3.24	958	3.39
							Exter	nal St	atic Pr	essure	(Inch	es of V	Vater)							
	1					•								_		_				^
		.1	1.	.2	1	.3	1.	.4	1	.5	1.	.6	1.	7	1.	.8	1.	.9	2.	.0
CFM	RPM	.1 BHP	1. RPM	.2 BHP	1 RPM	.3 BHP	RPM		1 RPM		RPM		RPM	7 BHP	RPM	.8 BHP	RPM		RPM	
CFM	RPM	ВНР		ВНР						ВНР		ВНР	RPM	ВНР	RPM					
3200	RPM	ВНР	RPM	ВНР						ВНР	RPM	ВНР	RPM	ВНР	RPM					
	RPM	BHP Standar	RPM d Moto	BHP r	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM High St	BHP atic (o	RPM versize	BHP) Motor	RPM r	ВНР	RPM	ВНР	RPM	ВНР
3200	RPM 8	BHP Standar 2.17	RPM d Moto 881	BHP r 2.34	RPM 913	2.62	RPM 936	2.74	RPM 959	2.85	RPM High St 982	BHP tatic (o	RPM versize	BHP) Motor 3.07	RPM r 1028	BHP 3.17	RPM 1051	BHP 3.27	RPM 1074	BHP 3.37

Table 31. Belt drive evaporator fan performance - 10 tons cooling only - ECC120A(3,4)E0 - horizontal airflow

-							Exte	rnal St	atic Pr	essure	(Inche	es of V	Vater)							
	0	.1	0	.2	0.	.3	0	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
									S	tandaı	d Moto	or								
3200	_	_	_	_	_	_	_	_	_	_	747	1.61	774	1.73	798	1.87	823	2.02	849	2.18
3600	_	_	_	_	_	_	_	_	752	1.73	786	2.01	814	2.13	836	2.28	861	2.44	886	2.59
4000	_	_	_	_	742	1.85	768	2.03	798	2.24	825	2.39	852	2.55	876	2.72	898	2.89	930	3.16
4400	735	2.17	761	2.26	788	2.38	815	2.52	841	2.65	868	2.81	892	2.97	925	3.25	950	3.41	974	3.56
							Exte	rnal St	atic Pr	essure	(Inche	es of V	Vater)							
	1	.1	1	.2	1.	.3	1	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	S	tandaı	d Moto	or						H	ligh St	atic (o	versize	e) Moto	or					
3200	874	2.35	897	2.52	929	2.79	952	2.91	975	3.02	998	3.13	1021	3.24	1044	3.34	1067	3.44	1090	3.54
3600	919	2.87	942	3.01	965	3.13	988	3.25	1011	3.36	1034	3.47	1057	3.58	1080	3.68	1103	3.78	1126	3.88
4000	955	3.31	978	3.44	1001	3.56	1024	3.68	1047	3.79	1070	3.89	1093	3.99	1116	4.09	1139	4.19	1162	4.29
4400	997	3.69	1020	3.82	1043	3.94	1066	4.06	1089	4.17	1112	4.28	1135	4.39	1158	4.49	1181	4.59	1204	4.69

12.5 Tons

Table 32. Belt drive evaporator fan performance - 12.5 tons with low heat heat - GCC150A(3,4)EL - downflow airflow

							E	xterna	l Static	Press	ure (In	ches o	of Wate	r)						
	0.	.1	0.	.2	0.	.3	0	.4	0.	.5	0	.6	0	.7	0	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									S	tandar	rd Moto	r								
4000	_	_	_	_	_	_	793	2.09	820	2.24	847	2.38	873	2.52	899	2.66	924	2.77	949	2.89
4500	_	_	791	2.23	816	2.41	842	2.58	869	2.76	897	2.91	925	3.19	951	3.37	977	3.53	1002	3.69
5000	822	2.56	848	2.76	874	2.93	899	3.26	924	3.41	950	3.59	976	3.77	1001	3.96	1028	4.11	1056	4.27
5500	873	2.99	899	3.31	925	3.46	950	3.63	975	3.81	999	3.99	1024	4.17	1049	4.36	1075	4.53	1101	4.71
							E	xterna	l Static	Press	ure (In	ches d	of Wate	r)						
	1.	.1	1.	.2	1.	.3	1	.4	1.	.5	1	.6	1	.7	1	.8	1	.9	2.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	atic (o	versize) Moto	r							
4000	973	3.12	997	3.26	1020	3.37	1043	3.48	1065	3.59	1087	3.73	1108	3.86	1129	3.97	1149	4.09	1169	4.18
4500	1026	3.86	1050	4.01	1073	4.16	1095	4.31	1117	4.44	1141	4.56	1166	4.64	1191	4.72	1213	4.79	1235	4.86
5000	1083	4.42	1109	4.57	1135	4.72	1160	4.87	1185	5.02	1212	5.18	1236	5.33	_	_	_	_	_	_
5500	1125	4.89	1149	5.07	1181	5.22	1204	5.34	1228	5.49	_	_	_	_	_	_	_	_	_	_

Table 33. Belt drive evaporator fan performance - 12.5 tons with low gas heat - GCC150A(3,4)EL - horizontal airflow

	External Static Pressure (Inches of Water)																			
	0	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0.	.7	0	.8	0.	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									5	Standar	d Moto	r								
4000	_	_	_	_	773	2.03	801	2.18	828	2.33	855	2.47	881	2.61	907	2.74	932	2.86	957	2.98
4500	_	_	799	2.32	824	2.51	850	2.67	877	2.84	905	3.02	933	3.28	959	3.46	985	3.62	1010	3.78
5000	830	2.65	856	2.84	882	3.02	915	3.34	932	3.52	958	3.68	984	3.86	1009	4.04	1036	4.21	1064	4.36
5500	881	3.08	916	3.41	937	3.54	958	3.72	983	3.89	1007	4.08	1032	4.26	1057	4.44	1083	4.62	1109	4.79
							E	xterna	Static	Press	ure (In	ches o	of Wate	r)						
	1.	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1.	.7	1.	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	tatic (o	versize) Moto	r							
4000	981	3.21	1005	3.34	1028	3.46	1051	3.57	1073	3.68	1095	3.82	1116	3.94	1137	4.06	1157	4.18	1177	4.27
4500	1034	3.94	1058	4.12	1081	4.25	1103	4.40	1125	4.53	1149	4.64	1174	4.73	1199	4.81	1221	4.88	1243	4.94
5000	1091	4.51	1117	4.66	1143	4.81	1168	4.96	1193	5.11	1218	5.24	_	_	_	_	_	_	_	_
5500	1133	4.98	1157	5.16	1183	5.29	1211	5.42	_	_	_	_	_	_	_	_	_	_	_	

Table 34. Belt drive evaporator fan performance - 12.5 tons with med gas heat - GCC150A(3,4)EM- downflow airflow

	External Static Pressure (Inches of Water)																			
	0	.1	0	.2	0	.3	0	.4	0.	.5	0	.6	0	.7	0	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									Standard		d Moto	r								
4000	_	_	_	_	783	2.09	811	2.24	838	2.39	865	2.53	891	2.67	917	2.81	942	2.92	967	3.04
4500	_	_	809	2.38	834	2.56	860	2.73	887	2.91	915	3.06	943	3.34	969	3.52	995	3.68	1020	3.84
5000	840	2.71	866	2.91	892	3.08	917	3.41	942	3.56	968	3.74	994	3.92	1019	4.11	1046	4.26	1074	4.42
5500	891	3.14	917	3.46	943	3.61	968	3.78	993	3.96	1017	4.14	1042	4.32	1067	4.51	1093	4.68	1119	4.86
External Static Pressure (Inches of Water)																				
	1	.1	1	.2	1	.3	1.	.4	1.	.5	1	.6	1	.7	1	.8	1	.9	2.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	atic (o	versize) Moto	r							
4000	991	3.27	1015	3.41	1038	3.52	1061	3.63	1083	3.74	1105	3.88	1126	4.01	1147	4.12	1167	4.24	1187	4.33
4500	1044	4.01	1068	4.16	1091	4.31	1113	4.46	1135	4.59	1159	4.71	1184	4.79	1209	4.87	1231	4.94	1253	5.01
5000	1101	4.57	1127	4.72	1153	4.87	1178	5.02	1203	5.17	1230	5.33	_	_	_	_	_	_	_	_

Table 35. Belt drive evaporator fan performance - 12.5 tons with med gas heat - GCC150A(3,4)EM - horizontal airflow

							E	xterna	I Static	Press	ure (In	ches d	of Wate	r)						
	0.	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0.	.7	0.	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
								;			d Moto	r								
4000	_	_	770	2.07	798	2.24	826	2.39	853	2.54	880	2.68	906	2.82	932	2.95	957	3.07	982	3.19
4500	802	2.35	824	2.53	849	2.71	875	2.88	902	3.05	930	3.21	958	3.49	984	3.67	1010	3.83	1035	3.99
5000	855	2.86	881	3.05	907	3.23	932	3.55	957	3.71	983	3.89	1009	4.07	1034	4.25	1061	4.41	1089	4.57
5500	906	3.29	932	3.61	958	3.75	983	3.93	1008	4.11	1032	4.29	1057	4.47	1082	4.65	1108	4.83	1134	5.01
					E	xterna	l Static	Press	ure (In	ches d	of Wate	r)								
	1	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1.	.7	1	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	tatic (o	versize) Moto	r							
4000	1006	3.42	1030	3.55	1053	3.67	1076	3.78	1098	3.89	1120	4.03	1141	4.15	1162	4.27	1182	4.39	1202	4.48
4500	1059	4.15	1083	4.31	1106	4.46	1128	4.61	1150	4.74	1174	4.85	1199	4.94	1224	5.02	1246	5.09	1268	5.15
5000	1116	4.72	1142	4.87	1168	5.02	1193	5.17	1218	5.32	_	_	_	_	_	_	_	_	_	_
5500	1158	5.19	1182	5.37	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

Table 36. Belt drive evaporator fan performance - 12.5 tons with high gas heat - GCC150A(3,4)EH - downflow airflow

	External Static Pressure (Inches of Water)																			
	0.	.1	0.	.2	0	.3	0.	.4	0.	.5	0	.6	0.	.7	0	.8	0	.9	1.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
							5	tandar	d Moto	r										
4000	_	_	_	_	783	2.09	811	2.24	838	2.39	865	2.53	891	2.67	917	2.81	942	2.92	967	3.04
4500	_	_	809	2.38	834	2.56	860	2.73	887	2.91	915	3.06	943	3.34	969	3.52	995	3.68	1020	3.84
5000	840	2.71	866	2.91	892	3.08	917	3.41	942	3.56	968	3.74	994	3.92	1019	4.11	1046	4.26	1074	4.42
5500	891	3.14	917	3.46	943	3.61	968	3.78	993	3.96	1017	4.14	1042	4.32	1067	4.51	1093	4.68	1119	4.86
							E	xterna	Static	Press	ure (In	ches d	of Wate	r)						
	1.	.1	1.	.2	1	.3	1.	.4	1.	.5	1	.6	1.	.7	1	.8	1	.9	2.	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
								I	High St	atic (o	versize) Moto	r							
4000	991	3.27	1015	3.41	1038	3.52	1061	3.63	1083	3.74	1105	3.88	1126	4.01	1147	4.12	1167	4.24	1187	4.33
4500	1044	4.01	1068	4.16	1091	4.31	1113	4.46	1135	4.59	1159	4.71	1184	4.79	1209	4.87	1231	4.94	1253	5.01
5000	1101	4.57	1127	4.72	1153	4.87	1178	5.02	1203	5.17	1230	5.33	-	_	_	_	_	_	_	_
5500	1143	5.04	1167	5.22	1199	5.37	1222	5.49	_	_	_	_	_	_	_	_	_	_	_	_

Table 37. Belt drive evaporator fan performance - 12.5 tons with high gas heat - GCC150A(3,4)EH - horizontal airflow

							E	xterna	I Static	Press	ure (In	ches d	of Wate	r)						
	0.	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0.	.7	0.	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
								;			d Moto	r								
4000	_	_	770	2.07	798	2.24	826	2.39	853	2.54	880	2.68	906	2.82	932	2.95	957	3.07	982	3.19
4500	802	2.35	824	2.53	849	2.71	875	2.88	902	3.05	930	3.21	958	3.49	984	3.67	1010	3.83	1035	3.99
5000	855	2.86	881	3.05	907	3.23	932	3.55	957	3.71	983	3.89	1009	4.07	1034	4.25	1061	4.41	1089	4.57
5500	906	3.29	932	3.61	958	3.75	983	3.93	1008	4.11	1032	4.29	1057	4.47	1082	4.65	1108	4.83	1134	5.01
					E	xterna	l Static	Press	ure (In	ches d	of Wate	r)								
	1	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1.	.7	1	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	tatic (o	versize) Moto	r							
4000	1006	3.42	1030	3.55	1053	3.67	1076	3.78	1098	3.89	1120	4.03	1141	4.15	1162	4.27	1182	4.39	1202	4.48
4500	1059	4.15	1083	4.31	1106	4.46	1128	4.61	1150	4.74	1174	4.85	1199	4.94	1224	5.02	1246	5.09	1268	5.15
5000	1116	4.72	1142	4.87	1168	5.02	1193	5.17	1218	5.32	_	_	_	_	_	_	_	_	_	_
5500	1158	5.19	1182	5.37	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

Table 38. Belt drive evaporator fan performance - 12.5 tons cooling only - ECC150A(3,4)E0 - downflow airflow

							E	xterna	l Static	Press	ure (In	ches o	of Wate	r)						
	0	.1	0.	.2	0.	.3	0.	.4	0.	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									S	Standaı	d Moto	r								
4000	_	_	_	_	_	_	747	1.89	769	2.06	790	2.23	811	2.38	833	2.57	856	2.74	879	2.91
4500	_	_	759	2.12	787	2.35	808	2.52	829	2.69	851	2.86	874	3.03	906	3.31	929	3.46	952	3.58
5000	807	2.52	828	2.68	854	2.85	871	3.02	903	3.31	928	3.46	952	3.62	976	3.78	999	3.93	1022	4.07
5500	870	2.99	882	3.15	914	3.43	937	3.59	960	3.75	983	3.91	1006	4.06	1029	4.22	1052	4.38	1075	4.52
							E	xterna	l Static	Press	ure (In	ches d	of Wate	r)						
	1.	.1	1.	.2	1.	.3	1.	.4	1.	.5	1	.6	1	.7	1	.8	1.	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High St	tatic (o	versize) Moto	r							
4000	911	3.19	932	3.33	952	3.45	972	3.56	992	3.66	1011	3.76	1030	3.86	1050	3.95	1071	4.04	1094	4.14
4500	974	3.74	995	3.88	1015	4.01	1035	4.11	1055	4.21	1074	4.31	1093	4.41	1113	4.51	1134	4.59	1157	4.69
5000	1044	4.21	1065	4.34	1085	4.46	1105	4.58	1125	4.68	1144	4.78	1163	4.88	1183	4.98	1204	5.08	1227	5.18
5500	1097	4.66	1118	4.79	1138	4.91	1158	5.02	1178	5.12	1197	5.22	1216	5.32	_	_	_	_	_	

Table 39. Belt drive evaporator fan performance - 12.5 tons cooling only - ECC150A(3,4)E0 - horizontal airflow

Таріе		Deit	ulive	evapo	Jiatoi	iaii p							Olliy -		IJUA	3,4 <i>)</i> L	0 - 110	112011	tai aii	IIOW
							E	xterna	I Static	Press	sure (In	iches d	of Wate	er)						
	0	.1	0	.2	0	.3	0	.4	0	.5	0	.6	0	.7	0	.8	0	.9	1	.0
CFM	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
									5	Standaı	rd Moto	r								
4000	_	_	_	_	742	1.85	763	2.02	785	2.19	806	2.36	827	2.53	849	2.7	872	2.87	895	3.04
4500	745	2.06	775	2.25	803	2.48	824	2.65	845	2.82	867	2.99	890	3.16	922	3.44	945	3.59	968	3.73
5000	823	2.65	844	2.81	870	2.98	887	3.15	919	3.43	944	3.59	968	3.75	992	3.91	1015	4.06	1038	4.2
5500	886	3.12	898	3.28	930	3.56	953	3.72	976	3.88	999	4.04	1022	4.19	1045	4.35	1068	4.51	1091	4.65
							E	xterna	l Static	Press	ure (In	ches	of Wate	er)						
	1	.1	1.	.2	1	.3	1	.4	1	.5	1	.6	1	.7	1	.8	1	.9	2	.0
CFM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
									High S	tatic (o	versize) Moto	r							
4000	927	3.32	948	3.46	968	3.58	988	3.69	1008	3.79	1027	3.89	1046	3.99	1066	4.08	1087	4.17	1110	4.27
4500	990	3.87	1011	4.01	1031	4.13	1051	4.24	1071	4.34	1090	4.44	1109	4.54	1129	4.63	1150	4.72	1173	4.82
5000	1060	4.34	1081	4.47	1101	4.59	1121	4.71	1141	4.81	1160	4.91	1179	5.01	1199	5.11	1220	5.21	1243	5.31
5500	1113	4.79	1134	4.92	1154	5.04	1174	5.15	1194	5.25	1213	5.35	1232	5.45	_		_	_	_	
Notes:																				

Notes:

- 1. The air distribution system has the greatest effect on airflow. The duct system is totally controlled by the contractor. For this reason, the contractor should use only industry-recognized procedures.
- 2. Each ton of cooling requires between 300 and 450 cubic feet of air per minute (CFM), or 320 CFM nominally.
- 3. Duct design and construction should be carefully done. System performance can be lowered dramatically through bad planning or workmanship.
- 4. Air supply diffusers must be selected and located carefully. They must be sized and positioned to deliver treated air along the perimerter of the space. If they are too small for their intended airflow, they become noisy. If they are not located properly, they cause drafts. Return air grilles must be properly sized to carry air back to the blower. If they are too small, they also cause noise.
- 5. The installers should balance the air distribution system to ensure proper quiet airflow to all rooms in the home. This ensures a comfortable living space.
- 6. An air velocity meter or airflow hood can give a reading of system CFM.

Table 40. Standard motor and drive/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
7.5	ECC090	15-15	716	743	772	798	824	850	879
7.5	GCC090	15-15	7 10	743	112	790	024	650	6/9
8.5	ECC102	15-15	735	762	790	817	844	871	898
0.5	GCC102	15-15	733	702	790	017	044	0/1	090
10	ECC120	15-15	735	762	790	817	844	871	898
10	GCC120	15-15	733	702	790			0/1	090
12.5	ECC150	15-16	735	762	790	817	844	871	898
12.5	GCC150	15-16	770	806	843	878	912	948	982

Note: Factory Set at closed.

Table 41. High Static (Oversize) motor and drive/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turn Open	5 Turn Open	4 Turn Open	3 Turn Open	2 Turn Open	1 Turn Open	Closed
7.5	ECC090	15-15	885	946	978	1047	1108	1175	1229
	GCC090	13-13	000	940	970	1047	1100	1175	1229
8.5	ECC102	15-15	900		994	1060	1124	1189	1243
8.5	GCC102	10 10			334	1000		1109	1243
10	ECC120	15-15	900	959	994	1060	1124	1189	1243
10	GCC120		900	939	994		1124	1109	1243
12.5	ECC150	15-16	916	975	1031	1 1090	90 1148	1209	1268
12.5	GCC150	13-10	310	9/3	1031	1090	1140	1209	1200

Note: Factory Set at closed.

Table 42. Static pressure drop through accessories (inches water column)

Tons	Unit Model	Cfm	Standard	Standard			Electric	Heater		
10115	Number	Cilli	Filters	Economizer	10.4	16	25	32	41	50
	E/GCC090A	2400	0.01	_	0.005	0.005	0.050	0.01	0.01	_
	(Downflow)	3000	0.03	_	0.010	0.010	0.010	0.02	0.02	_
7.5	(Bowillow)	3375	0.04	_	0.015	0.015	0.015	0.03	0.03	_
7.5	E/GCC090A	2400	0.01	_	0.005	0.005	0.050	0.01	0.01	_
	(Horizontal)	3000	0.03	_	0.010	0.010	0.010	0.02	0.02	_
	(Fiorizontal)	3375	0.04	_	0.015	0.015	0.015	0.03	0.03	_
	E/GCC102A	2720	0.02	_	0.010	0.010	0.010	0.02	0.02	_
	(Downflow)	3400	0.04	_	0.015	0.015	0.015	0.03	0.03	_
8.5	(Bowillow)	3825	0.05	_	0.020	0.020	0.020	0.04	0.04	_
0.5	E/GCC102A	2720	0.02	_	0.010	0.010	0.010	0.02	0.02	_
(Horizontal)	3400	0.04	_	0.015	0.015	0.015	0.03	0.03	_	
	(Honzontal)	3825	0.05	_	0.020	0.020	0.020	0.04	0.04	_
	E/GCC120A	3200	0.03	_	0.015	0.015	_	0.03	0.03	0.03
	(Downflow)	4000	0.05	_	0.020	0.020	_	0.04	0.04	0.04
10	(Bourmour)	4500	0.07	_	0.025	0.025	_	0.05	0.05	0.05
10	E/GCC120A	3200	0.03	_	0.015	0.015	_	0.03	0.03	0.03
	(Horizontal)	4000	0.05	_	0.020	0.020	_	0.04	0.04	0.04
	(10112011101)	4500	0.07	_	0.025	0.025	_	0.05	0.05	0.05
	E/GCC150A	4000	0.05	_	0.020	0.020	_	0.04	0.04	0.04
	(Downflow)	5000	0.07	_	0.030	0.030	_	0.06	0.06	0.06
	(20)	5625	0.09	_	0.035	0.035	_	0.07	0.07	0.07
12.5		4000	0.05	_	0.020	0.020	_	0.04	0.04	0.04
	E/GCC150A	5000	0.07	_	0.030	0.030	_	0.06	0.06	0.06
	(Horizontal)	5625	0.09	_	0.035	0.035	_	0.07	0.07	0.07

Performance Data

Table 43. Gas fired heating capacities

Tons	Gas Heat Option	Heating Input(MBH)(a)	Heating Output(MBH)(a)	Air Temp Rise
		125/87.5	100/70	15-45
7.5	Low, Medium or High	180/126	144/100	20-65
		225/157.5	180/125	25-70
		125/87.5	100/70	15-45
8.5	Low, Medium or High	180/126	144/100	20-65
		225/157.5	180/125	25-70
		180/125	144/100	20-50
10	Low, Medium or High	225/157.5	180/125	25-60
		250/200	200/160	30-65
		180/125	144/100	15-50
12.5	Low, Medium or High	225/157.5	180/125	20-60
		250/200	200/160	25-65

⁽a) For two stage heaters (input or output), second stage is total heating capacity. Second stage/first stage.

Table 44. Auxiliary electric heat capacity

		То	n ^(a)		Sta	ge 1	Sta	ge 2
Tons	Unit Model Number	Kw	MBh	No. of Stages	kW	MBh	kW	MBh
		Input(b)	Output	1	Input	Output	Input	Output
	EHK-10C(UL)	10.4	35.49	1	10.4	35.49	_	_
	EHK-15C(UL)	16	54.59	1	16	54.59	_	_
7.5	EHK-25C(UL)	25	85.30	1	25	85.30	_	_
	EHK-32C(UL)	32	109.19	2	16	54.59	16	54.59
	EHK-41C(UL)	41	139.90	2	25	85.30	16	54.59
	EHK-10C(UL)	10.4	35.49	1	10.4	35.49	_	_
	EHK-15C(UL)	16	54.59	1	16	54.59	_	_
8.5	EHK-25C(UL)	25	85.30	1	25	85.30	_	_
	EHK-32C(UL)	32	109.19	2	16	54.59	16	54.59
	EHK-41C(UL)	41	139.90	2	25	85.30	16	54.59
	EHK-10C(UL)	10.4	35.49	1	10.4	35.49	_	_
	EHK-15C(UL)	16	54.59	1	16	54.59	_	_
10	EHK-32C(UL)	32	109.19	2	16	54.59	16	54.59
	EHK-41C(UL)	41	139.90	2	25	85.30	16	54.59
	EHK-50C(UL)	50	170.61	2	25	85.30	25	85.30
	EHK-10C(UL)	10.4	35.49	1	10.4	35.49	_	_
	EHK-15C(UL)	16	54.59	1	16	54.59	_	_
12.5	EHK-32C(UL)	32	109.19	2	16	54.59	16	54.59
	EHK-41C(UL)	41	139.90	2	25	85.30	16	54.59
	EHK-50C(UL)	50	170.61	2	25	85.30	25	85.30

⁽a) Heaters are rated at 240V, 480V, and 600V. For other than rated voltage, CAP = (voltage/rated voltage)2 x rated cap.

⁽b) For all input/output categories, does not include fan power or heat.

Table 45. Electric heater voltage correction factors (applicable to auxiliary heat capacity)

Nominal Voltage	Distribution Voltage	Capacity Multiplier
	208	0.75
240	230	0.92
	240	1.00

Table 46. Air temperature rise across electric heaters(°F)

KW	Stages	7.5 Ton 3000 cfm	8.5 Ton 3400 cfm	10 Ton 4000 cfm	12.5 Ton 5000 cfm
10.4	1	10.7	9.9	8.2	6.8
16	1	14.6	13.8	12.6	10.9
25	1	22.4	22.4	_	_
32	2	28.2	27.1	25.3	22.9
41	2	37.5	35.6	32.4	30.1
50	2	_	_	39.5	37



Controls

Economizer Controls

The standard equipment offering is a fixed dry bulb changeover control. In addition, there are two optional controls, Reference Enthalpy Control and Comparative Enthalpy Control.

Reference Enthalpy Control

Replaces the dry bulb control with a wet bulb changeover controller which has a fully adjustable setpoint. Enthalpy control offers a higher level of comfort control, along with energy savings potential, than the standard dry bulb control. This is due to the additional wet bulb sensing capability.

Comparative Enthalpy Control

Comparative Enthalpy replaces the standard dry bulb control with two sensors that compare total heat content of the indoor air and outdoor air to determine the most efficient air source. This control option offers the highest level of comfort control, plus energy efficiency, available.

Remote Potentiometer

Minimum position setting of economizer can be remotely adjusted with this accessory.

Thermostats

Model #	Туре	Stages	Display Type	Features
TCONT302AS42DA	Programmable	4H/2C	Touchscreen	Common preferred, not required 2/ 2 AA battery power
TCONT402AN32DA	Non-Programmable	3H/2C	Backlit Display and Keys	Outdoor Temperature Sensor included
BAYSTAT814	Touchscreen	3H/2C	Touchscreen	Remote access via Pivot Mobile App
BAYSTAT300	Programmable	3H/2C	Backlit Display and Keys	BACnet MS-TP enabled



Electrical Data

Table 47. Unit wiring with cooling only (no electric heat) or gas heat

			Standard In	door Fan Motor	Oversized Indoor Fan Motor			
TONS	Unit Model Number	Unit Operating Voltage Range	Minimum Circuit Ampacity ^(a)	Maximum Fuse Size or Maximum Circuit Breaker	Minimum Circuit Ampacity	Maximum Fuse Size or Maximum Circuit Breaker		
7.5	E/GCC090A	208-230	36	45	40	50		
8.5	E/GCC102A	208-230	42	50	49	60		
10	E/GCC120A	208-230	54	70	57	70		
12.5	E/GCC150A	208-230	66	80	69	80		

⁽a) For Standard and Oversized Indoor Fan Motor, values do not include power exhaust accessory.

Table 48. Unit wiring with electric heat (single point connection)

				Standard Ind	oor Fan Motor	Oversized Inc	loor Fan Motor
TONS	Unit Model Number	Heater kW Rating	Control Stages	Minimum Circuit Ampacity	Maximum Fuse Size or Maximum Circuit Breaker	Minimum Circuit Ampacity	Maximum Fuse Size or Maximum Circuit Breaker
	1		208/230 Volts	Three Phase			•
	EHK-41CUL	41.0	2	116/133	125/150	122/139	125/150
	EHK-32CUL	32.0	2	93/106	100/110	99/112	100/125
7.5	EHK-25CUL	25.0	1	75/85	80/90	81/91	90/100
	EHK-15CUL	16.0	1	51/58	60/60	57/64	60/70
	EHK-10CUL	10.4	1	37/41	45/45	43/47	50/50
	EHK-41CUL	41.0	2	116/133	125/150	126/142	150/150
	EHK-32CUL	32.0	2	93/106	100/110	102/115	110/125
8.5	EHK-25CUL	25.0	1	75/85	80/90	84/94	90/100
	EHK-15CUL	16.0	1	51/58	60/60	60/67	60/70
	EHK-10CUL	10.4	1	42/42	50/50	49/50	60/60
	EHK-50CUL	50.0	2	146/136	150/150	149/139	150/150
	EHK-41CUL	41.0	2	122/139	125/150	126/142	150/150
10	EHK-32CUL	32.0	2	99/112	100/125	102/115	110/125
	EHK-15CUL	16.0	1	57/64	70/70	60/67	70/70
	EHK-10CUL	10.4	1	54/54	70/70	57/57	70/70
	EHK-50CUL	50.0	2	146/136	150/150	149/139	150/150
	EHK-41CUL	41.0	2	122/139	125/150	126/142	150/150
12.5	EHK-32CUL	32.0	2	99/112	100/125	102/115	110/125
	EHK-15CUL	16.0	1	66/66	80/80	69/69	90/90
	EHK-10CUL	10.4	1	66/66	80/80	69/69	90/90
			460 Volts T	hree Phase			,
	EHK-41FHL	41.5	2	70	70	76	80
	EHK-33FHL	33.0	2	57	60	63	70
7.5	EHK-25FHL	25.0	1	44	45	50	50
	EHK-16FHL	16.5	1	31	35	37	40
	EHK-14FHL	13.9	1	27	30	33	35
	EHK-41FHL	41.5	2	70	70	78	80
	EHK-33FHL	33.0	2	57	60	65	70
8.5	EHK-25FHL	25.0	1	44	45	52	60
	EHK-16FHL	16.5	1	31	35	39	40
	EHK-14FHL	13.9	1	27	30	35	40
	EHK-50FHL	50.0	2	74	80	76	80
	EHK-41FHL	41.5	2	76	80	78	80
10	EHK-33FHL	33.0	2	63	70	65	70
	EHK-16FHL	16.5	1	37	40	39	40
	EHK-14FHL	13.9	1	33	35	35	40

Electrical Data

Table 48. Unit wiring with electric heat (single point connection) (continued)

				Standard Inde	oor Fan Motor	Oversized Indoor Fan Motor		
TONS	Unit Model Number	Heater kW Rating	Control Stages	Minimum Circuit Ampacity	Circuit Size or		Maximum Fuse Size or Maximum Circuit Breaker	
	EHK-50FHL	50.0	2	74	80	76	80	
	EHK-41FHL	41.5	2	76	80	78	80	
12.5	EHK-33FHL	33.0	2	63	70	65	70	
	EHK-16FHL	16.5	1	37	40	39	45	
	EHK-14FHL	13.9	1	34	40	35	45	

Table 49. Electrical characteristics—compressor motor and condenser motor

TONS Unit Model		Compressor Motors							Condenser Fan Motors					
	Na	Volts	Dhasa	rnm	Amps ^(a)		No.	Volts	Phase	hn	Amps			
	No.	NO.	VOILS	Phase	rpm	RLA	LRA	NO.	VOILS	Filase	hp	FLA		
7.5	E/GCC090A	2	203-230	3	3500	11.6/10.4	123/73	2	208-230	3	1/3	1.5		
8.5	E/GCC102A	2	203-230	3	3500	15.6/11.6	93/123	2	208-230	3	1/3	1.5		
10	E/GCC120A	2	203-230	3	3500	15.6/18.6	93/137	2	208-230	3	1/3	1.5		
12.5	E/GCC150A	2	203-230	3	3500	23.2/15.6	164/93	2	208-230	3	3/4	4.5		

⁽a) For Compressor Motors and Condenser Fan Motors: Amp draw for each motor; multiply value by number of motors to determine total amps.

Table 50. Electrical characteristics—evaporator fan motor

TONS	Unit Model Number	Standard Evaporator Fan Motor					Oversized Evaporator Fan Motor					
		No.	Volts	Phase	hp	Amps	No.	Volts	Phase	hp	Amps	
						FLA					FLA	
7.5	E/GCC090A	1	208-230	3	2	7.2	1	208-230	3	3	12.0	
8.5	E/GCC102A	1	208-230	3	2	7.2	1	208-230	3	5	14.6	
10	E/GCC120A	1	208-230	3	3	12.0	1	208-230	3	5	14.6	
12.5	E/GCC150A	1	208-230	3	3	12.0	1	208-230	3	5	14.6	

Table 51. Electrical characteristics—combustion blower motor (gas heat units)

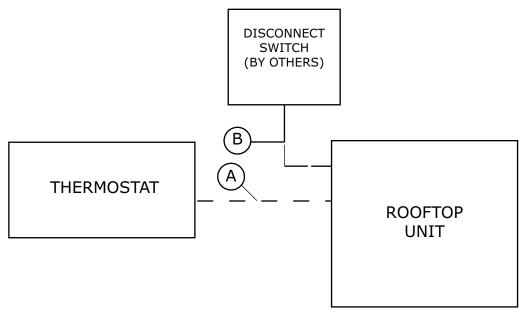
TONS		Combustion Blower Motor								
	Unit Model Number	No.	Volts	Phase	rpm	Amps				
	- rumbor	NO.	Voits	Pilase	ı pili	FLA				
7.5	E/GCC090	1	208/230	1	2100	1.2				
8.5	E/GCC105	1	208/230	1	2100	1.2				
10	E/GCC120	1	208/230	1	2100	1.2				
12.5	E/GCC150	1	208/230	1	2100	1.2				



Jobsite Connections

Table 52. Typical number of wires

Thermostats							
А	3 Wires, 24V, Cooling only 4 Wires 24V, with Electric Heat						
В	3 Power Wires + 1 Ground Wire (three phase)						



Notes:

- 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 and local electric codes. Wiring shown dotted is to be furnished and installed by the customer.



Dimensional Data

Figure 1. Typical installation clearance for single and multiple unit applications (in inches)

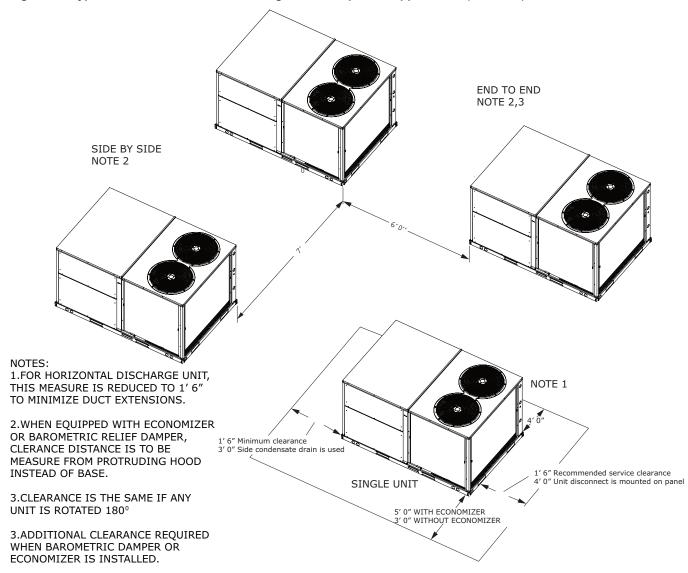


Figure 2. Cooling with optional electrical heat and gas/electric units — overview

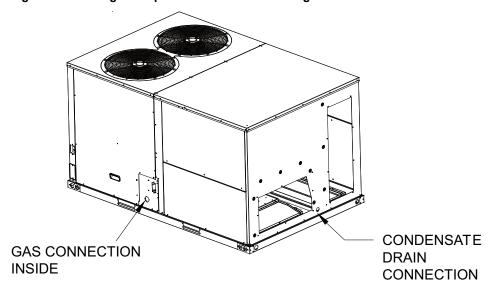
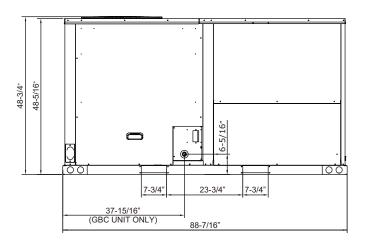
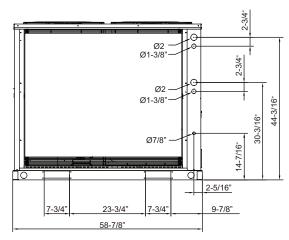


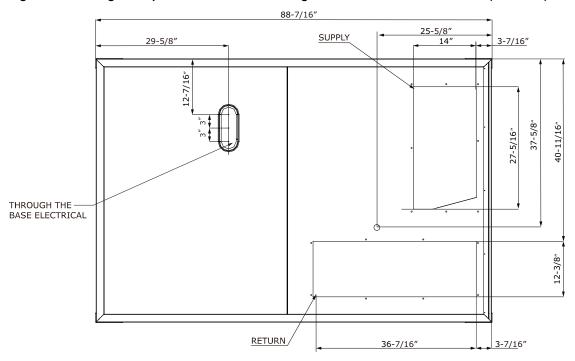
Figure 3. Cooling with optional electrical heat and gas/electric units — front and side views (in inches)





Dimensional Data

Figure 4. Cooling with optional electrical heat and gas/electric units — bottom view (in inches)



- 1.THROUGH THE BASE GAS AND ELECTRICAL IS NOT STANDARD ON ALL UNITS.
 2.VERIFY WEIGHT, CONNECTION, AND ALL DIMENSION WITH INSTALLER DOCUMENTS BEFORE INSTALLATION.

Figure 5. Cooling with optional electrical heat and gas/electric units — back view (horizontal configuration) (in inches)

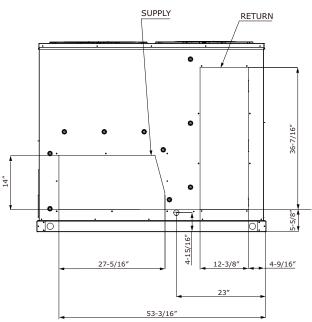


Figure 6. Cooling with optional electric heat and gas/electric models — roof curb (in inches)

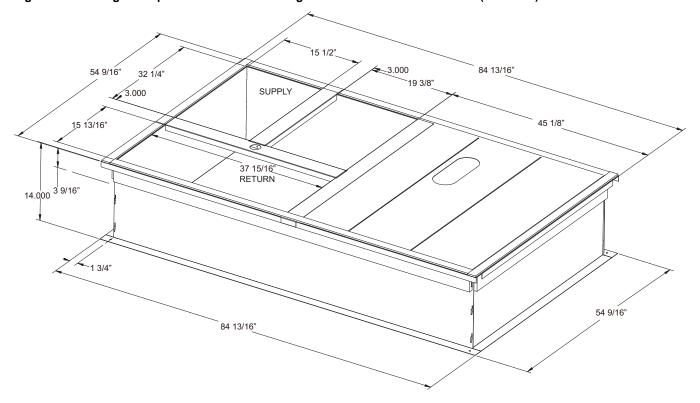
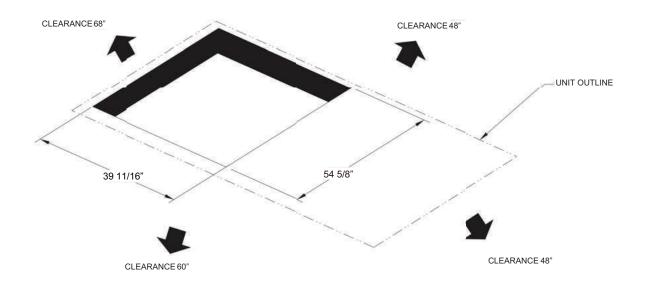


Figure 7. Cooling with optional electric heat and gas/electric models — downflow unit clearance (in inches)





Weights

Table 53. Maximum unit and corner weights (lb) and center of gravity dimensions (in.)

Tons	Unit Model No.	Weights (lb)(a), (b)			Corner V	Center of Gravity (in.)			
		Shipping	Net	Α	В	С	D	Length	Width
7.5	GCC090A	1087	1012	248	181	334	249	45.0	34.0
8.5	GCC102A	1111	1036	236	176	340	283	44.0	36.0
10	GCC120A	1133	1058	237	190	273	358	39.0	34.0
12.5	GCC150A	1235	1172	264	194	299	416	39.0	35.0

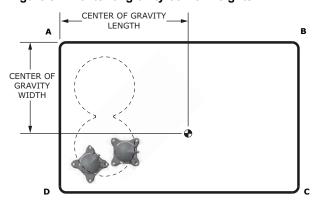
⁽a) Weights are approximate. Horizontal and downflow unit and corner weights may vary slightly.

Note: To calculate additional weight for accessories, see Accessory net weights table.

Table 54. Accessory net weight (lb)

Accessories			Dimension (mm)					
Electric Heaters	Model #	E/GCC090	E/GCC102	E/GCC120	E/GCC150	Length	Width	Thickness
10 KW (240V)	EHK-10CUL	"/"	"/"	"/"	"/"			
16 KW (240V)	EHK-16CUL	"/"	"/"	"/"	"/"	"/"	"/"	"/"
25 KW (240V)	EHK-25CUL	"/"	"/"	"/"	"/"			
32 KW (240V)	EHK-32CUL	"/"	"/"	"/"	"/"			
41 KW (240V)	EHK-41CUL	"/"	"/"	"/"	"/"	"/"	"/"	"/"
50 KW (240V)	EHK-50CUL	"/"	"/"	"/"	"/"			
Oversized Motor						•		
2 HP (230 / 460)	_	37.5	37.5	37.5	37.5	_	_	_
3 HP (230 / 460)	_	45.0	45.0	45.0	45.0	_	_	_
5 HP (230 / 460)	_	53.0	53.0	53.0	53.0	_	_	_
External Vent Hood 2.8								-

Figure 8. Center of gravity/corner weights



⁽b) Weights do not include additional factory or field installed options/accessories.

⁽c) Corner weights are given for information only. 7.5–12.5 ton models must be supported continuously by a curb or equivalent frame support.



Mechanical Specifications

General

- Packaged rooftop units cooling, heating capacities, and efficiencies are AHRI Certified within scope of AHRI Standard (I-P) and ANSIZ21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces
- Packaged rooftop units are dedicated downflow or horizontal airflow
- Operating range between 125°F and 40°F in cooling standard from the factory
- 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
- Colored and numbered wring internal to the unit for simplified identification
- Units ETL listed and labeled, classified in accordance

Standard Features

Casing

- Zinc coated, heavy gauge, galvanized steel
- · Weather-resistant baked enamel finish on phosphatized exterior surfaces
- · Meets ASTM B117, 672 hour salt spray test
- Removable single side maintenance access panels
- Lifting handles in maintenance access panels (can be removed and reinstalled by removing no more than 11 fasteners while providing a water and air tight seal)
- Exposed vertical panels and top covers in the indoor air section shall be insulated with a 1/2-inch, 1-pound density foil-faced, fire-resistant, permanent, odorless, glass fiber material
- · Base of unit shall be insulated with 1/2-inch, 1-pound density, foil-faced, glass fiber material
- 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
- Downflow unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8—inch high supply/return openings to provide an added water integrity precaution, if the condensate drain backs up
- Base of unit shall have provisions for forklift and crane lifting

Compressors

- All units have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps
- Suction gas-cooled motor with voltage utilization range of plus or minus 10 percent of unit nameplate voltage
- · Internal overloads standard with scroll compressors
- All models have phase monitors and Low and High Pressure Controls as standard

Discharge Line Thermostat

- A bi-metal element discharge line thermostat is installed as a standard option on the discharge line of each system
- Provides extra protection to the compressors against high discharge temperatures in case of loss of charge, extremely high ambient and other conditions which could drive the discharge temperature higher
- Wired in series with high pressure control
- When discharge temperature rises above the protection limit, the bi-metal disc in the thermostat switches to the off position, opening the 24 Vac circuit
- When temperature on the discharge line cools down, the bi-metal disc closes the contactor circuit, providing power to the compressor



Mechanical Specifications

Evaporator and Condenser Coils

- Microchannel coils burst tested by manufacturer
- · Microchannel condenser coils standard on all units
- Coils leak tested to ensure the pressure integrity
- Evaporator coil and condenser coil leak tested to 225 psig and pressure tested to 450 psig
- · Sloped condensate drain pans are standard

Filters

Two inch standard filters shall be factory supplied on all units.

Gas Heat Section

- Progressive tubular heat exchanger, stainless steel burners and corrosion resistant steel
- Induced draft combustion blower shall be used to pull the combustion products through the firing tubes
- 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, 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)

Indoor Fan

- · Belt driven, FC centrifugal fans with adjustable motor sheaves
- · Motors thermally protected
- · Oversized motors available for high static application
- Indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT)

Locking Safety Device

- Pressure switch monitoring allows for lockout in a situation where the switch is opened
- By monitoring the Y input as well as the pressure switches, advanced decision making can be made to identify situations where faults/errors occur

Outdoor Fans

- Outdoor fan shall be externally drive, statically and dynamically balanced, draw-through in the vertical discharge position.
- Fan motor(s) shall be permanently lubricated and shall have current overload protection.

Refrigerant Circuits

- Each refrigerant circuit shall have a fixed orifice, service pressure ports, and refrigerant line filter driers factory installed as standard
- An area shall be provided for replacement suction line driers

Refrigerant Pressure Control

All units include High and Low Pressure Cutouts as standard.

Unit Top

The top cover shall be double hemmed and gasket sealed to prevent water leakage.

Factory Installed Options

Multi-Speed Indoor Fan System

 Incorporates a multi-speed fan control to change the speed of the fan to 70% of full airflow based off of compressor stages

Field Installed Options

Condensate Overflow Switch

This option shall shut the unit down in the event that a clogged condensate drain line prevents proper condensate removal from the unit.

Demand Control Ventilation with CO₂ Sensor

- CO₂ sensor shall have the ability to monitor the concentration (parts per million, ppm) of CO₂ (Carbon Dioxide) in the air
- As the CO₂ concentration changes, the outside air damper modulates to meet the current ventilation needs of the zone

Economizer (Standard) — Downflow

- Assembly includes fully modulating 0–100% motor and dampers, barometric relief, minimum
 position setting, preset linkage, wiring harness with plug, fixed dry bulb and spring return actuator
- Barometric relief damper shall provide a pressure operated damper that shall be gravity closing and shall prohibit entrance of outside air during the equipment "off" cycle

Economizer – Horizontal

The horizontal economizer shall contain the same features as the downflow economizer with the exception of barometric relief.

Electric Heaters

- Electric heat modules shall be available for installation within the basic unit
- Elements shall be constructed of heavy-duty nickel chromium elements internally delta connected for 240 volt, wye connected for volt
- · Power assemblies shall provide single-point connection
- · Electric heat modules shall be UL listed or CSA certified
- If ordering the Through the Base Electrical option with an Electric Heater, the heater must be factory installed.

Filters

Two inch standard filters shall be factory supplied on all units.

Hail Guards

Tool-less, hail protection quality coil guards are available for condenser coil protection.

Low Leak Economizer with Fault Detection & Diagnostics - Downflow

- Controller shall have the capability to provide the value of each sensor used in controlling the economizer operation
- System status is also indicted for the following conditions:
 - Free cooling available
 - Economizer enabled
 - Compressor enabled
 - Heating Enabled



Mechanical Specifications

- Mixed air low limit cycle active
- Fault Detection and Diagnostic system detects the following faults:
 - Air temperature sensor failure/fault
 - Not economizing when conditions indicate system should be economizing
 - Economizing when conditions indicate system should not be economizing
 - Dampers are not modulating
 - Excessive amounts of outside air are being introduced though the economizer
- Fault Detection and Diagnostic system is certified by the California Energy Commission as meeting requirements of California Title 24 120.2(i)1 through 120.2(i)8 in accordance with Section 100(h)

Manual Outside Air Damper

The rain hood and screen shall provide up to 50% outside air.

Motorized Outside Air Damper

- Manually set outdoor air dampers shall provide up to 50% outside air
- Outdoor air dampers shall open to set position when indoor fan starts
- · Damper shall close to the full closed position when indoor fan shuts down

Oversized Motors

Oversized motors shall be available for high static applications.

Powered Exhaust

The powered exhaust shall provide exhaust of return air, when using an economizer, to maintain better building pressurization.

Reference or Comparative Enthalpy

- Used to measure and communicate outdoor humidity
- 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 – 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
- · Option is available on all models

Remote Potentiometer

The minimum position setting of the economizer shall be adjusted with this accessory.

Through the Base Gas Piping

- Unit shall include a standard through the base gas provision
- Option shall have all piping necessary including, black steel, manual gas shut-off valve, elbows, and union
- Manual shutoff valve shall include a 1/8" NPT pressure tap
- Assembly will require minor field labor to install (Gas/Electric Only)

Through the Base Utilities Access

 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 shall allow for field installation of liquid-tight conduit and an external field installed disconnect switch



Notes





The AHRI Certified mark indicates Trane U.S. Inc. participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

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

Trane has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.