



Commercial Renaissance™ Line Classic® Series Packaged Air Conditioners



RACG Series

Cooling Efficiencies up to: 11.0 EER & 14.2 IEER

Nominal Sizes: 15, 17.5, 20 & 25 Tons [52.8, 61.5, 70.3 & 87.9 kW]

Cooling Capacities: 180k Btu/h [52.57 kW] to 300k Btu/h [87.92 kW]

Refrigerant Type: R-454B

ASHRAE 90.1-2022 Compliant Models



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RACG STANDARD FEATURES INCLUDE:

- Factory charged with R-454B refrigerant
- Wired and run tested
- Factory-installed refrigerant leak detection
- Scroll compressors with internal line break overload and high pressure protection
- All models have two compressor stages
- Field Convertible airflow – vertical down flow or horizontal side flow
- Forkable base rails for easy handling and lifting
- Cooling operation up to 125°F ambient
- Patented PlusOne® SmartShield™ Interlaced MicroChannel Coil Design
- PlusOne® ServiceSmart package includes:
 - Qwik-Slide Blower Assembly
 - Qwik-Clean Drain Pan
- Overflow condensate sensor
- PlusOne® Diagnostics with Dual 7-Segment LED Display to meet code compliance
- Base pan with drawn supply and return opening
- ¼ turn fasteners on filter access door (On hinged models only)
- Color-coded and labeled wiring
- TXV refrigerant metering system
- Solid-core liquid line filter drier
- High pressure and low pressure/loss of charge protection with built in Smart Logic
- Insulation encapsulated throughout entire unit
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system
- Blower with Variable Frequency Drive (VFD) control is standard
- Flexible footprint to support a variety of roof curbs
- MERV 8 & MERV 13 filters are available as a factory or field-installed option



Designing for Sustainability with Low GWP: For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%¹ lower GWP than previous-generation refrigerants — with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort.

¹When comparing the GWP of R-454B to R-410A refrigerant.

FACTORY INSTALLED OPTIONS:

- Economizer w/Single Enthalpy (Downflow/Vertical)
- Economizer w/Single Enthalpy (Downflow/Vertical) DDC
- Low-Ambient Control Kit
- Freeze Stat Kit
- Electric Heater Kits
- Return Smoke Detector (Downflow/Vertical)
- Return Smoke Detector (Horizontal)
- Return/Supply Smoke Detector (Downflow/Vertical)
- Return/Supply Smoke Detector (Horizontal)

FIELD INSTALLED ACCESSORY EQUIPMENT:

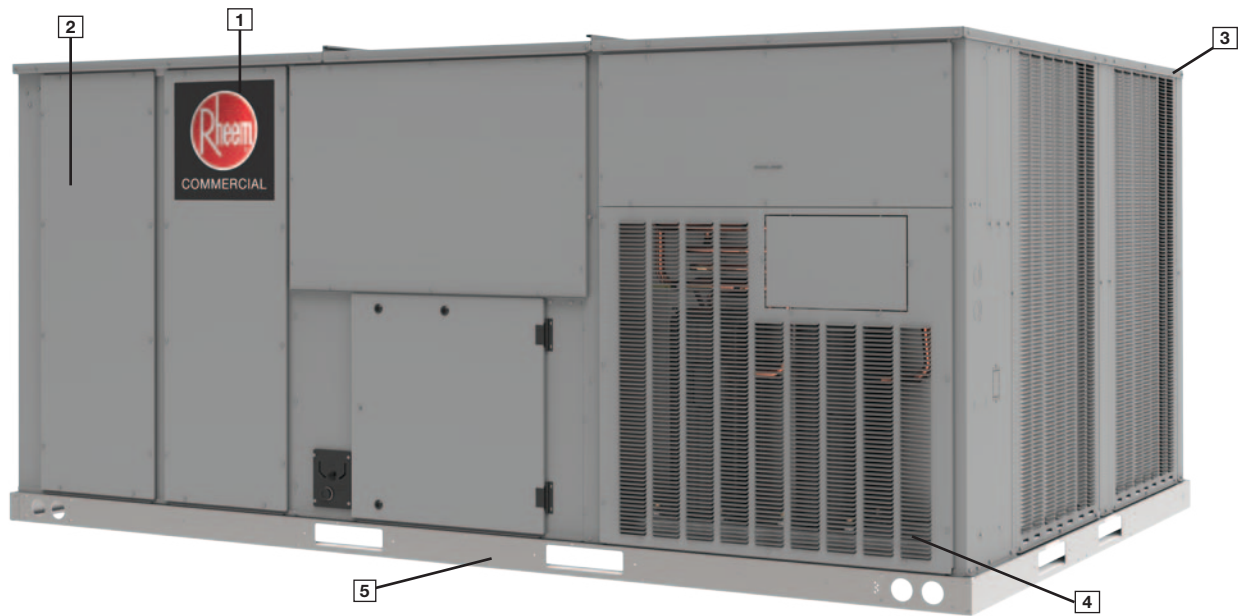
Accessory	Model Number	Factory Installation Available?
Economizers		
Non-DDC Economizer with Single Enthalpy (Downflow/Vertical) <i>MicroMetl Economizer with Siemens® Controls</i>	RXRD-11MGDAM3	Yes
Non-DDC Economizer with Single Enthalpy (Downflow/Vertical) <i>RRS Rooftop Systems® Economizer with Siemens Controller</i>	RXRD-51MGDAM3	Yes
Non-DDC Economizer with Single Enthalpy (Horizontal) <i>MicroMetl Economizer with Siemens Controls</i>	RXRD-11MGHAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) <i>Ruskin Rooftop Systems Economizer with Siemens Controller</i>	RXRD-51MGHAM3	No
Economizer Universal DDC Interface Kit	RXRX-DDC01	Yes

FIELD INSTALLED ACCESSORY EQUIPMENT (CONTINUED):

Accessory		Model Number	Factory Installation Available?
Comfort Alert (3 phase) Non-DDC		RXR-AXG3	No
Comfort Alert (3 Phase) DDC		RXR-AXG2	Yes
Communication Card, BACnet®		RXR-AY01	No
Communication Card, LonWorks®		RXR-AY02	No
Concentric Adapter/Transition (15 & 17.5 ton)		RXMC-GG01	No
Concentric Adapter/Transition (20 ton)		RXMC-GG02	No
Concentric Adapter/Transition (25 ton)		RXMC-GG03	No
Concentric Flush Mount Diffuser (15 & 17.5 ton)		RXR-AEF2042	No
Concentric Flush Mount Diffuser (20 ton)		RXR-AEF2348	No
Concentric Flush Mount Diffuser (25 ton)		RXR-AEF2852	No
Concentric Step Down Diffuser (15 & 17.5 ton)		RXR-AED2042	No
Concentric Step Down Diffuser (20 ton)		RXR-AED2348	No
Concentric Step Down Diffuser (25 ton)		RXR-AED2852	No
Convenience Outlet, Non-Powered		RXR-BN01	Yes
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)		PD555460	No
Electric Heater Kits (with Single Point Wiring)	18 kW 208 - 230 V	RXJJ-G18KWC	Yes
	18 kW 460 V	RXJJ-G18KWD	Yes
	18 kW 575 V	RXJJ-G18KWY	Yes
	36 kW 208 - 230 V	RXJJ-G36KWC	Yes
	36 kW 460 V	RXJJ-G36KWD	Yes
	36 kW 575 V	RXJJ-G36KWY	Yes
	54 kW 208 - 230 V	RXJJ-G54KWC	Yes
	54 kW 460 V	RXJJ-G54KWD	Yes
	54 kW 575 V	RXJJ-G54KWY	Yes
	72 kW 208 - 230 V	RXJJ-G72KWC	Yes
	72 kW 460 V	RXJJ-G72KWD	Yes
	72 kW 575 V	RXJJ-G72KWY	Yes
Freeze Stat Kit (Non-DDC)		RXR-AM06	Yes

¹Unfused Service Disconnect is not available for the 25 ton 230v model.

Accessory	Model Number	Factory Installation Available?
Fresh Air Damper, Manual	RXRF-AGA1	No
Fresh Air Damper, Motorized	RXRF-AGB1	No
Fresh Air Damper, Motorized DDC	RXRF-AGC1	No
Low-Ambient Control Kit	RXRZ-A05	Yes
MERV 8 Filter	RXMF-M08A22420	Yes
MERV 13 Filter	RXMF-M13A22420	Yes
Outdoor Coil Louver Kit	RXR-LKG01	No
Power Exhaust (230V) Kit, Convertible (MicroMetl)	RXR-CGF01C	No
Power Exhaust (460V) Kit, Convertible (MicroMetl)	RXR-CGF01D	No
Power Exhaust (575V) Kit, Convertible (MicroMetl)	RXR-CGF01Y	No
Power Exhaust (230V) Kit, Convertible (RRS)	RXR-RGF01C	No
Power Exhaust (460V) Kit, Convertible (RRS)	RXR-RGF01D	No
Power Exhaust (575V) Kit, Convertible (RRS)	RXR-RGF01Y	No
Roofcurb, 14"	RXR-DGC14	No
Roofcurb, 18"	RXR-DGC18	No
Roofcurb, 24"	RXR-DGC24	No
Roofcurb - Restraint Clips	RXR-DGCRC	No
Roofcurb Adapter	RXR-DGCAE	No
Roofcurb Adapter Z-Bracket	RXR-DGCAZ	No
Sensor, Carbon Dioxide (Wall Mount)	RXR-AR02	No
Smoke Detector, Return (Downflow/Vertical)	RXR-BSG1	Yes
Smoke Detector, Return (Horizontal)	RXR-BSG2	No
Smoke Detector, Return/Supply (Downflow/Vertical)	RXR-BSG3	Yes
Smoke Detector, Return/Supply (Horizontal)	RXR-BSG4	No
Unfused Service Disconnect ¹	RXR-BPG1	No



Cabinet and Foundation

Outwardly, the large *Rheem*® Renaissance label ([1]) identifies the brand to the customer. The sheet-metal cabinet ([2]) uses 18-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a top with a 1/8" drip lip ([3]) as well as gasket-protected panels and screws. The Rheem outdoor coil louver kit (optional) ([4]) sets the standard for coil protection in the industry. Electro deposition, baked-on enamel that is tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

Anything built to last must start with the right foundation. Following that model, the foundation is comprised of 14-gauge, commercial-grade, full perimeter base rails ([5]) that integrate fork slots and rigging holes to save set-up time on the job site.

Easy Installation

The Renaissance line features a new footprint that simplifies the replacement process by eliminating the need for a new curb adapter and being able to match inlet, outlet and electrical connections of the most common/industry-standard configurations.

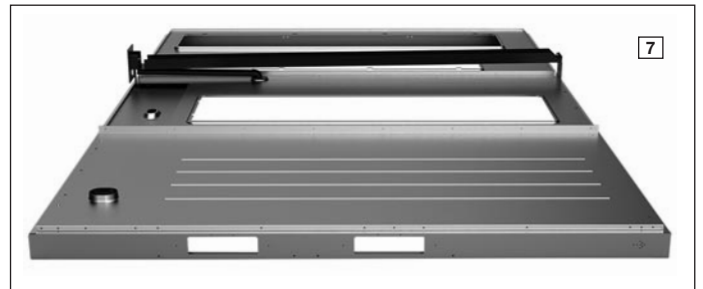
Base Pan

The base pan is stamped to form a 7/8" flange around the supply and return cover, which eliminates the worry of water entering the conditioned space ([6]). All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden.



Drain Pan

The Qwik-Clean Drain Pan ([7]) is made from a composite material that resists the growth of harmful bacteria. With both side and center drain options, the drain pan slides out completely for easy cleaning. It also features overflow detection as a standard feature.



Test Standards

During development, each unit was tested to U.L. 60335-2-40, AHRI 340-360 as well as other Rheem-required reliability tests. Rheem adheres to stringent ISO 9001 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can be assured that when a Rheem packaged unit arrives at the job, it is ready to go with a factory charge and quality checks.

Easy Access

All major compartments are easily accessible from the front of the unit: the electrical compartment, blower compartment, heating section, and outdoor section. Each compartment has mechanical fasteners. The filter compartment is accessed through a large, mechanically fastened panel. Information is readily available on the outside of the panel, with a nameplate that contains the model and serial numbers, electrical data, and other important unit information. Hinged access is available as an option for the electrical, blower, compressor, and filter compartments.

Charging Charts, Wiring Diagrams, & Labels

The unit charging chart and rating plate are located on the top right corner of the economizer side of the unit.

Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. Having this information means easier model identification for the life of the product. Each unit also includes a production line quality test assurance label.



Filter Rack

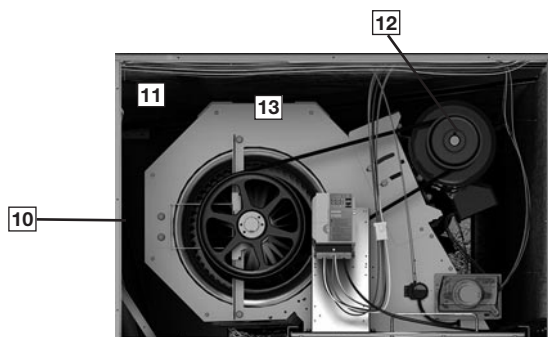
Located within the filter compartment, the Slide-Out Filter Rack™ ([9]) allows easy change of eight 20 x 24 x 2 standard size filters.



Blower Assembly

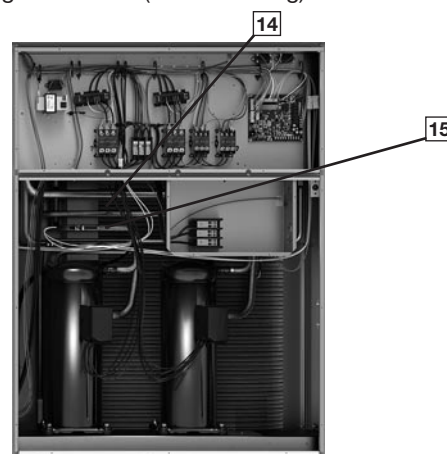
Removal of the blower access panel provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly ([10]) allows for easy removal of the blower as an assembly. This makes servicing the blower components such as VFD, motor, and adjusting the pulley much easier. The entire assembly slides out by removing four 5/16" screws from the blower retention bracket. This compartment also includes the low ambient control. ([11]) The low ambient control allows the compressor to operate down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The adjustable motor pulley ([12]) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the pulley is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 1 to 6 turns open.

Where the demands for the job require high static, Rheem offers drives that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing ([13]) and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an "H" bushing that firmly secures the pulley to the blower shaft, resulting in years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft. This is an improvement from a set screw, which can score the shaft and create burrs that make blower-pulley removal difficult.



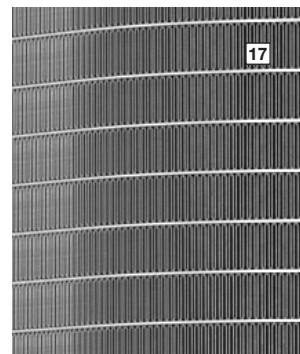
High and Low Pressure Switches & Freeze Stat

High pressure ([13]) and low pressure ([14]) switches are standard. They are located in the outdoor section ([15]). The optional Freeze Stat ([16]), is clipped onto the suction line in the blower compartment. The high-pressure switch shuts off the compressors if pressures exceeding 650 PSIG are detected. The low-pressure switch shuts off the compressors if a low pressure of 50 PSIG is detected due to loss of charge. Built-in Smart Logic reduces nuisance calls by only shutting off compressors after the third detection. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow.



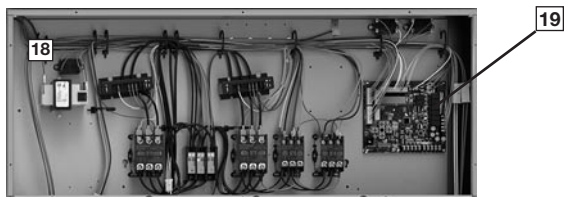
MicroChannel Evaporator & TXV

The patent-pending dual circuit evaporator coil uses MicroChannel technology for maximum heat transfer, light weight, fewer manually brazed connections and reduced refrigerant charge ([17]). The TXV metering devices maintain superheat over a wide range of varying temperatures optimizing unit performance for all conditions.



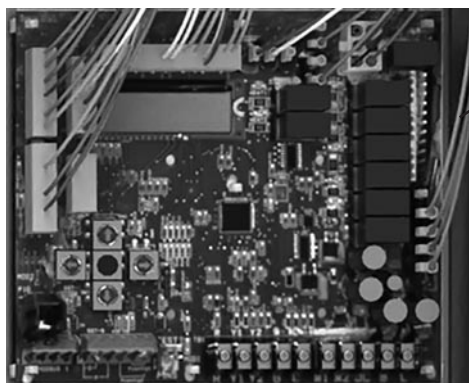
Control Box

Inside the control box ([18]), each electrical component is clearly labeled; that label matches the component to the wire diagram for ease of trouble shooting. Some wiring is numbered on each end of the termination and is color-coded to match the wiring diagram. The control transformer has a low voltage circuit breaker that trips if an electrical short occurs. There is a compressor contactor for each compressor.



ClearControl

The optional ClearControl™ system ([19]) consisting of a rooftop unit controller, temperature sensors, and pressure sensors, allows real-time monitoring and communication between rooftop units. The Rooftop Unit Controller (RTU-C) that is factory mounted and wired into the control panel. The RTU-C is a solid-state, micro-processor-based control board that provides flexible control and extensive diagnostics for all unit functions. The RTU-C, using proportional/integral control algorithms, performs specific unit functions that govern unit operation in response to zone conditions, system temperatures, system pressures, ambient conditions, and electrical inputs. The RTU-C features a 16 x 2 character LCD display and a five-button keypad for local configuration and direct diagnosis of the system ([20]). Features include a clogged filter switch (CFS), fan proving switch (FPS), return air temperature sensor (RAT), discharge air temperature sensor (DAT), and outdoor air temperature sensor (OAT). Freeze sensors (FS) are used in place of freeze stats to allow measurement of refrigerant suction line temperatures.



The unit with the RTU-C is specifically designed to be applied in four distinct applications:

- 1. BACnet Communication** — The unit is compatible with a third party building management system that supports the BACnet Application Specific Controller device profile, with the use of a field installed BACnet Communication Module. The BACnet Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network. A zone sensor, a BACnet network zone sensor, a BACnet thermostat, or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The BACnet Communication Module is compatible with MSTP EIA-485 daisy chain networks communicating at 38.4 bps. It is compatible with twisted pair, shielded cables.
- 2. LonWorks Communication** — The unit is compatible with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field installed LonMark communication module. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks network. A zone sensor, a LonTalk network zone sensor, or a LonTalk thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The LonMark Communication Module utilizes an FTT-10A free topology transceiver communicating at 78.8 kbps. It is compatible with Echelon qualified, twisted pair cable, Belden 8471, or NEMA Level 4 cables. The module can communicate up to 1640 feet with no repeater. The LonWorks limit of 64 nodes per segment applies to this device.
- 3. 24V Thermostat Compatibility** — The unit is compatible with a programmable 24 volt thermostat. Connections are made via conventional thermostat screw terminals. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.
- 4. Zone Sensor Compatibility** — The unit is compatible with a zone sensor and a mechanical or solid state time clock connected to the RTU-C. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

Comfort Alert

A factory or field installed Comfort Alert® ([21]) module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display or through the (BAS) network.



Variable Frequency Drive

The supply fan Variable Frequency Drive (VFD) (22) comes standard and optimizes energy usage year round by providing a lower speed for first stage cooling operation, improving IEER's over the conventional constant fan system. Operating in the constant fan mode at the reduced speed can use as little as 1/5 of the energy of a conventional constant fan system. Also, by operating at a lower speed on first stage cooling, up to 126% more moisture is removed, improving comfort during low load operation. VFD comes standard in every model. The VFD supply fan factory option meets California Title 24 and ASHRAE 90.1-2022 requirements for multi blower speed control. VFD also ramps up to the desired speed, reducing stress on the supply fan components and noise from a sudden inrush of air. Because the airflow is cut in half during first stage cooling and constant fan operation, noise is much less during these modes of operation.



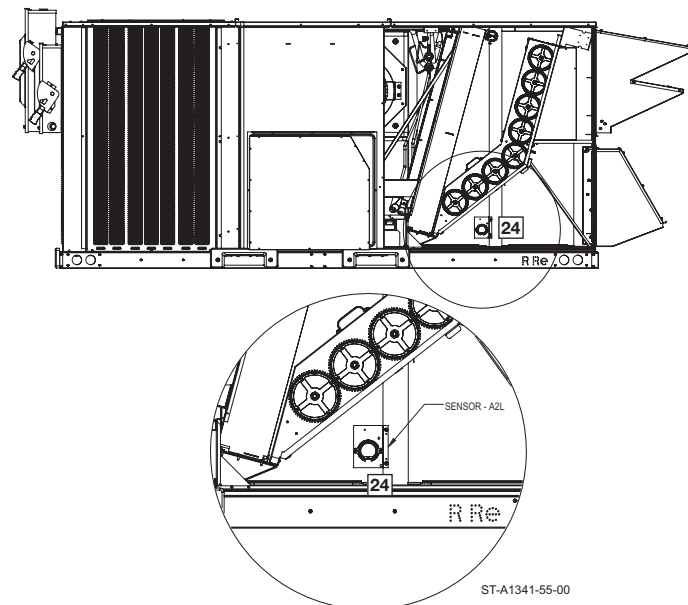
Convenience Outlet, Disconnect, & Circuit Breaker

For added convenience in the field, factory-installed options of non-powered convenience outlet (23) and circuit breakers are available. Low and high voltage can enter from the side or through the base.



Refrigerant Leak Detection

In the event of a detected refrigerant leak, the refrigerant leak detection sensors (24) will trigger the mitigation procedure that shuts off the compressor(s) and turns on the indoor blower motor.



NOTE: The second leak detection system is located on the opposite side of the unit. Viewed from the outside, the location is a mirror of the drawing above.

If a vertical field-installed economizer will also be installed during the unit installation, the refrigerant detection system's wire harnesses must be unplugged from both sensors. Once the economizer is installed, route the wire harnesses through the plastic grommets (installed in the economizer panels) and reconnect both sensors.

Easily Accessible Gauge Ports

To the right of the compressor compartment are the easily accessible gauge ports. They are identified by labeling that identifies the compressor circuit, high pressure connection, (25) and low pressure connection (26). Because the gauge ports are mounted externally, an accurate diagnostic of system operation can be performed without removing access panels. Brass caps on the Schrader fitting ensure the gauge parts are leak proof.



Electric Heater Kits

The electric heater kits are located in the heater compartment. The two-stage resistive heater kits are available for factory or field installation. With choices that range from 18 to 72 kW, the contractor is assured to get the correct amount of heating output to meet the design heating load. Engineered with ease of installation in mind, the heater kit is completely wired up for slide-in plug-n-play installation in the field.

Power hook-up in the field is easy with single-point wiring to a terminal block and a polarized plug for the low-voltage connection, and is UL certified. The electrical heating elements are of a wound-wire construction and isolated with ceramic bushings. The limit switch protects the design from over-temperature conditions.

Compressor

The compressor compartment houses the heartbeat of the unit. The scroll compressor (27) is known for its long life and for reliable, quiet, and efficient operation. Each compressor has 4 rubber grommets on the bottom for sound and vibration dampening. (28). Units have two stages of efficient cooling operation in which the first stage is approximately 50% of second stage. Each unit comes standard with a filter dryer.



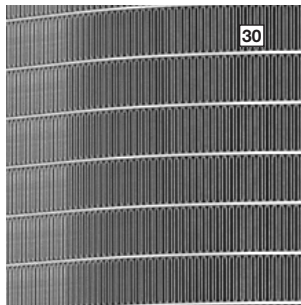
Condenser Fans

The condenser fan motors (29) can easily be accessed and maintained through the top of the unit. The 15 ton unit has down-mount fans which provide corrosion protection and easy removal. The 17.5, 20, and 25 ton models are designed with up-mounted fans.



MicroChannel Condenser Technology

The outdoor coil uses the latest MicroChannel technology (30) for the most effective method of heat transfer. The outdoor coil is protected by optional louvered panels, which allow unobstructed airflow while protecting the unit from both the environment and vandalism.



Coil Coating

Every unit offers the option of factory-applied ElectroFin® E-Coat condenser coating (31) that delivers superior corrosion resistance for outdoor coils to operate in the harshest of environments.



Economizer and Dampers

Each unit is designed for both down flow or horizontal applications for job configuration flexibility. The return air compartment can also contain an economizer. (32) Each unit is pre-wired for the economizer to allow quick, plug-in installation. Available as a factory-installed option, the economizer provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements. It comes standard with single enthalpy controls, which can be upgraded to dual enthalpy easily in the field. The economizer control has a minimum position set point, an outdoor-air set point, a mixed-air set point, and a CO₂ set point. Barometric relief is standard on all economizers.



Power Exhaust is easily field-installed. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plugin assembly. The wire harness to the economizer also has accommodations for a smoke detector.

The damper minimum position, actual damper position, power exhaust on/off set point, mixed air temperature limit set point, and Demand Controlled Ventilation (DCV) set point can be read and adjusted at the unit controller display or remotely through a network connection. The Space CO₂ level, mixed air temperature, and Economizer Status (free cooling available, single or dual enthalpy) can be read at the unit controller display or remotely through a network connection. Economizer faults will trigger a network alarm and can be read at the unit controller display or remotely through a network connection.

Roofcurb

The Rheem roofcurb is made for tool-less assembly at the jobsite by engaging tabs in slots of adjacent curb sides, which makes the assembly process quick and easy.

<u>R</u>	<u>AC</u>	<u>G</u>	<u>Y</u>	<u>B</u>	<u>180</u>	<u>A</u>	<u>C</u>	<u>F</u>	<u>00</u>	<u>0</u>	<u>B</u>	<u>A</u>	<u>****</u>			
<u>1</u>	<u>23</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u> <u>8</u> <u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u> <u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>

1—Brand

R = Rheem

2, 3—Unit Type

AC = Packaged AC

4—Cabinet Type

G = Large Commercial

5—Refrigerant

Y = R-454B

6—Efficiency Level

B = Standard Efficiency

7, 8, 9—Capacity

180 = 15 Ton

210 = 17.5 Ton

240 = 20 Ton

300 = 25 Ton

10—Major Series

A = 1st Design

11—Voltage

C = 3 PH, 208-230 V, 60 Hz

D = 3 PH, 460 V, 60 Hz

Y = 3 PH, 575 V, 60 Hz

12—Drive

F = Belt Drive-VFD Low

G = Belt Drive-VFD Medium

H = Belt Drive-VFD High

13, 14—Heat Capacity

00 = No Heat

18 = 18 kW

36 = 36 kW

54 = 54 kW

72 = 72 kW

15—Heat Configuration

0 = No heat

1 = Single-Stage

2 = 2-Stage

16—Control

B = CoreCommand & Phase Monitor

C = ClearControl & Phase Monitor

D = ClearControl & Comfort Alert

17 —Minor Series

A = 1st design

18, 19, 20, 21—Option Code

AA0A

FACTORY INSTALLED OPTION CODES FOR RACG (15 TO 25 TON)

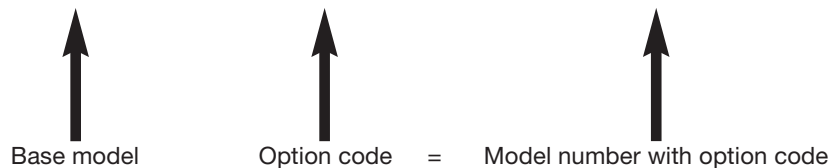
18				19			20			21	
LV = Louver protection				NP = Non-Powered Convenience Outlet			EC = Economizer			M8 = MERV 8 Filter	
HA = Hinged Access				LF = Low Ambient & Freeze Stat			SS = Supply and Return Smoke			M13 = MERV 13 Filter	
CC = Condenser Coil Coating							RS = Return Smoke				
OPTION CODE CHARACTER HIGHLIGHTED											
OPT				OPT			OPT			OPT	
A	None			A	None		0	None		A	Standard
B	LV			B	LF		1	EC		D	M8
C	HA			C	NP		2	RS		G	M13
D	LV	HA		D	LF	NP	3	EC	RS		
E	LV	CC					4	SS			
F	LV	HA	CC				5	EC	SS		

Instructions for Factory Installed Option(s) Selection

Note: Four characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, "AA0A" follows the model number.

- **Step 1:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 18. For example, the option code character "E" has Louver protection and Coil Coating.
- **Step 2:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 19. For example, the option code character "D" has Low Ambient / Freeze Stat and Non-powered convenience outlet.
- **Step 3:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 20. For example, the option code character "3" has Economizer and Return Smoke.
- **Step 4:** In the table above, based on the desired features, choose option code from highlighted options on the left side under the number 21. For example, the option code character "D" has MERV 8 filters.
- The resulting option code from examples above is: "ED3D"
- **Step 5:** Add your option code selection to the end of model number.

◦ Example: RACGYB180ACF000BA ED3D = RACGYB180ACF000BAED3D



To select an RACG Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example:

Voltage—	208/230V - 3 Phase - 60Hz
Total Cooling Capacity—	118,000 Btu/h [34.57 kW]
Sensible Cooling Capacity—	175,000 Btu/h [51.3 kW]
Heating Capacity—	175,000 Btu/h [51.2 kW]
*Condenser Entering Air—	95°F [35.0°C] DB
*Evaporator Mixed Air Entering—	65°F [18.3°C] WB 78°F [25.6°C] DB
*Indoor Air Flow (vertical)—	6400 CFM [3020 L/s]
*External Static Pressure—	0.60 in. WG [.15 kPa]

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 15 ton [35.1 kW] unit, enter cooling performance table at 95°F [35.0°C] DB condenser inlet air. Interpolate between 63°F [17.2°C] WB and 67°F [19.4°C] to determine total and sensible capacity and power input for 65°F [18.3°C] WB evaporator inlet air at 3750 CFM [1770 L/s] indoor air flow (table basis):

Total Cooling Capacity = 175,970 Btu/h [51.6 kW]
Sensible Cooling Capacity = 131,270 Btu/h [38.5 kW]
Power Input (Compressor and Cond. Fans) = 14,850 watts

Use formula $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ in note to determine sensible capacity at 80°F [26.7°C] DB evaporator entering air:

$99,950 + (1.10 \times 3,600 \times (1 - 0.03) \times (78 - 80))$
Sensible Cooling Capacity = 118,386 Btu/h [34.7 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 3600 CFM [1699 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity = $175,970 \times 1.05 = 184,768$ Btu/h [51.1 kW]
Sensible Capacity = $131,270 \times 1.05 = 137,833$ Btu/h [40.4 kW]
Power Input = $14,850 \times 1.01 = 14,995$ Watts

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

Enter Indoor Blower performance table at 6400 CFM [3020 L/s]. Total ESP (external static pressure) per the spec of 0.60 in. WG [.15 kPa] includes the system duct and grilles. Add from the table "Component Air Resistance," 0.05 in. WG [.01 kPa] for wet coil, for a total selection static pressure of 0.65 [0.7] in. WG [0.17kPa] use the Airflow Performance Downflow Table to determine:

RPM = 685
BHP = 2.21 [1,648 Watts]
DRIVE = F (3 H.P. Motor)

5. CALCULATE INDOOR BLOWER Btu/h HEAT EFFECT FROM MOTOR WATTS, STEP 4.

$$1,648 \times 3.412 = 5,623 \text{ Btu/h [1.68 kW]}$$

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

$$\text{Net Capacity} = 184,768 \text{ (step 3)} - 5,623 \text{ (step 5)} = 179,145 \text{ Btu/h [52.5 kW]}$$

$$\text{Net Sensible Capacity} = 137,833 \text{ (step 3)} - 5,623 \text{ (step 5)} = 132,210 \text{ Btu/h [38.7 kW]}$$

7. CALCULATE UNIT INPUT AND JOB EER.

$$\text{Total Power Input} = 14,995 \text{ (step 3)} + 1,648 \text{ (step 4)} = 16,643 \text{ Watts}$$

$$\text{EER} = \frac{\text{Net Total Btu/h [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{173,866}{16,643} = 10.45$$

8. SELECT UNIT HEATING CAPACITY.

From Heater Kit Table select kW to meet heating capacity requirement; multiply kW x 3412 to convert to Btu/h.

Use 54 kW Heater Kit

Heater Kit Model: RXXJJ-G54KWC Heater Kit Capacity: 184,256 Btu/h [54.0 kW]

Add indoor blower heat effect (step 5) to Heater Kit Capacity to get total heating capacity:

$$184,256 + 5,623 = 189,879 \text{ Btu/h [55.6 kW]}$$

9. CHOOSE MODEL RACGYB180ACF542BAAA0A.

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit roof mounted and centered on the zone it conditions by ducts.

[] Designates Metric Conversions

GENERAL DATA – RACGYB MODELS – 15 - 25 TON [52.4 - 87.9 kW]

Model RACGYB Series	180	210	240	300
Cooling Performance^A				
Gross Cooling Capacity Btu/h [kW]	180,000 [52.75]	210,000 [61.55]	240,000 [70.34]	300,000 [87.92]
EER	11.0	11.0	11.0	10.0
IEER ^B	14.2	14.2	14.2	13.2
Nominal CFM/AHRI Rated CFM [L/s]	6,000/5,475 [2,831/2,584]	7,000/7,020 [3,304/3,313]	8,000/7,400 [3,775/3,492]	10,000/8,475 [4,719/4,000]
AHRI Net Cooling Capacity Btu/h [kW]	172,000 [50.4]	196,000 [57.4]	228,000 [66.8]	284,000 [83.2]
Net Sensible Capacity Btu/h [kW]	129,000 [37.8]	147,000 [43.1]	171,000 [50.1]	213,000 [62.4]
Net Latent Capacity Btu/h [kW]	43,000 [12.6]	49,000 [14.4]	57,000 [16.7]	71,000 [20.8]
Net System Power kW	15.12	17.08	20.23	27.43
Compressor				
No./Type	2/ Scroll	2/ Scroll	2/ Scroll	2/ Scroll
No. Stages	2	2	2	2
Outdoor Sound Rating (dB)^C				
	83	92	96	98
Outdoor Coil - Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Rows/FPI [FPcm]	36.3 [3.37]	46.2 [4.29]	46.2 [4.29]	46.2 [4.29]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1.25 [31.8]
Rows/FPI [FPcm]	23.8 [2.21]	23.8 [2.21]	23.8 [2.21]	23.8 [2.21]
	1 / 18 [7]	1 / 18 [7]	1 / 18 [7]	1 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/30 [762]	2/30 [762]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	12000 [5663]	14000 [6607]	16800 [7928]	19000 [8966]
Motor RPM	2 at 3/4 HP	2 at 1-1/2 HP	2 at 1-1/2 HP	2 at 1-1/2 HP
	1100	1140	1140	1140
Indoor Fan - Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1755	1760
	56 / 184	56 / 184	184 / 213	213 / 215
Filter - Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(8)2x24x20 [51x610x508]	(8)2x24x20 [51x610x508]	(8)2x24x20 [51x610x508]	(8)2x24x20 [51x610x508]
Refrigerant Charge Oz. [g] Circuit 1/Circuit 2				
	167 [4,720]/170 [4,805]	213 [6,038]/213 [6,038]	196 [5,557]/204 [5,783]	210 [5,953]/210 [5,953]
Weights				
Net Weight lbs. [kg]	1951 [885]	2011 [912]	2045 [928]	2121 [962]
Ship Weight lbs. [kg]	2051 [930]	2111 [958]	2145 [973]	2221 [1007]

NOTE: Please look at the rating plates pasted on the side of the unit to understand the model number of your unit. See Page 15 for Notes.

[] Designates Metric Conversions

NOTES:

- A. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
- B. EER is rated at AHRI conditions and in accordance with DOE test procedures. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.
- C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[] Designates Metric Conversions

INDOOR WEIGHTED SOUND POWER LEVEL (dBA)

MODEL	TYPE	STD. RATING (dBA)	FREQUENCY (Hz)							
			63	125	250	500	1000	2000	4000	8000
RAGCYB180	Ducted Discharge	79.7	62	72	73	74	73	69	66	56
	Ducted Inlet	67.6	55	55	60	63	61	57	55	47
RAGCYB210	Ducted Discharge	75.7	61	66	68	70	69	67	64	55
	Ducted Inlet	69.0	57	60	62	64	60	58	57	48
RAGCYB240	Ducted Discharge	83.6	72	78	76	77	75	73	71	62
	Ducted Inlet	72.9	61	67	66	68	63	60	59	52
RAGCYB300	Ducted Discharge	85.7	67	76	79	80	79	77	75	67
	Ducted Inlet	78.7	67	72	72	74	68	67	66	58

OUTDOOR WEIGHTED SOUND POWER LEVEL (dBA)

MODEL	STD. RATING (dBA)	FREQUENCY (Hz)							
		63	125	250	500	1000	2000	4000	8000
RAGCYB180	83.2	63	67	74	78	79	75	72	64
RAGCYB210	92.4	74	75	83	87	88	84	79	71
RAGCYB240	96.1	78	83	87	91	91	87	82	74
RAGCYB300	98.5	81	84	89	92	93	91	87	83

COOLING PERFORMANCE DATA—RACGYB180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①										
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]		7100 [3351]	5475 [2584]	4750 [2242]	7100 [3351]	5475 [2584]	4750 [2242]	7100 [3351]	5475 [2584]	4750 [2242]
DR ①		.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	220.1 [64.5] 130.5 [38.2] 13.2	208.9 [61.2] 114.6 [33.6] 12.9	203.8 [59.7] 107.5 [31.5] 12.7	207.5 [60.8] 155.8 [45.7] 13.1	196.8 [57.7] 136.9 [40.1] 12.8	192.1 [56.3] 128.4 [37.6] 12.6	194.8 [57.1] 181.2 [53.1] 12.9	184.8 [54.2] 159.1 [46.6] 12.6
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	215.1 [63.0] 128.1 [37.5] 14.0	204.1 [59.8] 112.5 [33.0] 13.6	199.2 [58.4] 105.5 [30.9] 13.4	202.4 [59.3] 153.4 [45.0] 13.8	192.1 [56.3] 134.8 [39.5] 13.5	187.4 [54.9] 126.4 [37.0] 13.3	189.8 [55.6] 178.8 [52.4] 13.7	180 [52.8] 157 [46.0] 13.3
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	210.1 [61.6] 125.7 [36.8] 14.7	199.3 [58.4] 110.4 [32.4] 14.3	194.5 [57.0] 103.6 [30.4] 14.1	197.4 [57.9] 151.0 [44.3] 14.6	187.3 [54.9] 132.6 [38.9] 14.2	182.8 [53.6] 124.4 [36.5] 14.0	184.7 [54.1] 176.3 [51.7] 14.4	175.3 [51.4] 154.9 [45.4] 14.0
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	205.0 [60.1] 123.3 [36.1] 15.4	194.6 [57.0] 108.3 [31.7] 15.0	189.9 [55.7] 101.6 [29.8] 14.9	192.4 [56.4] 148.6 [43.6] 15.3	182.5 [53.5] 130.5 [38.2] 14.9	178.1 [52.2] 122.5 [35.9] 14.7	179.7 [52.7] 173.9 [51] 15.1	170.5 [50.0] 152.8 [44.8] 14.7
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	200.0 [58.6] 120.9 [35.4] 16.2	189.8 [55.6] 106.2 [31.1] 15.7	185.2 [54.3] 99.6 [29.2] 15.6	187.3 [54.9] 146.2 [42.8] 16.0	177.8 [52.1] 128.4 [37.6] 15.6	173.5 [50.8] 120.5 [35.3] 15.4	174.7 [51.2] 171.5 [50.3] 15.9	165.7 [48.6] 150.7 [44.2] 15.5
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	195.0 [57.2] 118.4 [34.7] 16.9	185.0 [54.2] 104.0 [30.5] 16.5	180.6 [52.9] 97.6 [28.6] 16.3	182.3 [53.4] 143.8 [42.1] 16.8	173.0 [50.7] 126.3 [37.0] 16.3	168.8 [49.5] 118.5 [34.7] 16.2	169.6 [49.7] 169.1 [49.6] 16.6	161.0 [47.2] 148.5 [43.5] 16.2
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	190.0 [55.7] 116.0 [34.0] 17.6	180.2 [52.8] 101.9 [29.9] 17.2	175.9 [51.6] 95.6 [28.0] 17.0	177.3 [52.0] 141.4 [41.4] 17.5	168.2 [49.3] 124.2 [36.4] 17.1	164.2 [48.1] 116.5 [34.1] 16.9	164.6 [48.2] 164.6 [48.2] 17.3	156.2 [45.8] 146.4 [42.9] 16.9
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	184.9 [54.2] 113.6 [33.3] 18.4	175.5 [51.4] 99.8 [29.2] 17.9	171.2 [50.2] 93.6 [27.4] 17.7	172.3 [50.5] 139.0 [40.7] 18.2	163.4 [47.9] 122.1 [35.8] 17.8	159.5 [46.7] 114.5 [33.6] 17.6	159.6 [46.8] 159.6 [46.8] 18.1	151.4 [44.4] 144.3 [42.3] 17.6
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	179.9 [52.7] 111.2 [32.6] 19.1	170.7 [50.0] 97.7 [28.6] 18.6	166.6 [48.8] 91.6 [26.8] 18.4	167.2 [49.0] 136.5 [40.0] 19.0	158.7 [46.5] 119.9 [35.1] 18.5	154.9 [45.4] 112.5 [33.0] 18.3	154.6 [45.3] 154.6 [45.3] 18.8	146.7 [43.0] 142.2 [41.7] 18.3
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	174.9 [51.3] 108.8 [31.9] 19.8	165.9 [48.6] 95.6 [28.0] 19.3	161.9 [47.5] 89.7 [26.3] 19.1	162.2 [47.5] 134.1 [39.3] 19.7	153.9 [45.1] 117.8 [34.5] 19.2	150.2 [44.0] 110.5 [32.4] 19.0	149.5 [43.8] 149.5 [43.8] 19.5	141.9 [41.6] 140.1 [41.1] 19.0
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	169.9 [49.8] 106.4 [31.2] 20.6	161.2 [47.2] 93.4 [27.4] 20.0	157.3 [46.1] 87.7 [25.7] 19.8	157.2 [46.1] 131.7 [38.6] 20.4	149.1 [43.7] 115.7 [33.9] 19.9	145.6 [42.7] 108.6 [31.8] 19.7	144.5 [42.4] 144.5 [42.4] 20.3	137.1 [40.2] 137.1 [40.2] 19.8

DR —Depression ratio
 dbE —Entering air dry bulb
 wbE—Entering air wet bulb

Total —Total capacity x 1000 Btu/h
 Sens —Sensible capacity x 1000 Btu/h
 Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACGYB210

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8100 [3823]	7000 [3304]	5400 [2549]	8100 [3823]	7000 [3304]	5400 [2549]	8100 [3823]	7000 [3304]	5400 [2549]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	243.6 [71.4] 138.3 [40.5] 15.1	236.9 [69.4] 128.9 [37.8] 14.9	227.0 [66.5] 115.1 [33.7] 14.6	228.0 [66.8] 165.2 [48.4] 15.1	221.6 [64.9] 154.0 [45.1] 14.9	212.4 [62.3] 137.5 [40.3] 14.6	213.7 [62.6] 190.9 [55.9] 14.9	207.8 [60.9] 177.8 [52.1] 14.7	199.1 [58.4] 158.9 [46.6] 14.4
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	239.3 [70.1] 137.0 [40.2] 15.9	232.7 [68.2] 127.7 [37.4] 15.7	223.0 [65.4] 114.0 [33.4] 15.4	223.6 [65.5] 163.9 [48.0] 15.9	217.4 [63.7] 152.7 [44.8] 15.7	208.4 [61.1] 136.4 [40.0] 15.3	209.4 [61.4] 189.6 [55.6] 15.7	203.6 [59.7] 176.6 [51.8] 15.5	195.1 [57.2] 157.8 [46.2] 15.2
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	234.5 [68.7] 135.3 [39.7] 16.7	228.0 [66.8] 126.1 [37.0] 16.5	218.5 [64.0] 112.6 [33.0] 16.2	218.8 [64.1] 162.2 [47.5] 16.7	212.8 [62.4] 151.1 [44.3] 16.4	203.9 [59.8] 135.0 [39.6] 16.1	204.6 [60.0] 187.8 [55.0] 16.5	198.9 [58.3] 175.0 [51.3] 16.3	190.6 [55.9] 156.3 [45.8] 15.9
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	229.3 [67.2] 133.2 [39.0] 17.5	222.9 [65.3] 124.1 [36.4] 17.3	213.7 [62.6] 110.9 [32.5] 16.9	213.6 [62.6] 160.1 [46.9] 17.5	207.7 [60.9] 149.2 [43.7] 17.2	199.1 [58.4] 133.3 [39.1] 16.9	199.4 [58.4] 185.7 [54.4] 17.3	193.8 [56.8] 173.0 [50.7] 17.1	185.8 [54.5] 154.6 [45.3] 16.7
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	223.6 [65.5] 130.7 [38.3] 18.3	217.4 [63.7] 121.8 [35.7] 18.1	208.4 [61.1] 108.8 [31.9] 17.7	208.0 [61.0] 157.6 [46.2] 18.3	202.2 [59.3] 146.8 [43] 18.0	193.8 [56.8] 131.2 [38.5] 17.7	193.7 [56.8] 183.2 [53.7] 18.1	188.3 [55.2] 170.7 [50.0] 17.9	180.5 [52.9] 152.5 [44.7] 17.5
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	217.5 [63.7] 127.8 [37.5] 19.1	211.5 [62.0] 119.0 [34.9] 18.9	202.7 [59.4] 106.3 [31.2] 18.5	201.9 [59.2] 154.7 [45.3] 19.1	196.3 [57.5] 144.1 [42.2] 18.8	188.1 [55.1] 128.7 [37.7] 18.4	187.6 [55.0] 180.3 [52.8] 18.9	182.4 [53.5] 168.0 [49.2] 18.6	174.8 [51.2] 150.1 [44.0] 18.3
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	211.0 [61.8] 124.5 [36.5] 19.9	205.1 [60.1] 116.0 [34.0] 19.7	196.6 [57.6] 103.6 [30.4] 19.3	195.3 [57.2] 151.4 [44.4] 19.9	189.9 [55.7] 141.0 [41.3] 19.6	182.0 [53.3] 126.0 [36.9] 19.2	181.1 [53.1] 177.0 [51.9] 19.7	176.0 [51.6] 164.9 [48.3] 19.4	168.7 [49.4] 147.3 [43.2] 19
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	204.0 [59.8] 120.7 [35.4] 20.7	198.3 [58.1] 112.5 [33.0] 20.4	190.1 [55.7] 100.5 [29.5] 20.0	188.3 [55.2] 147.6 [43.3] 20.7	183.1 [53.7] 137.6 [40.3] 20.4	175.5 [51.4] 122.9 [36.0] 20.0	174.1 [51.0] 173.3 [50.8] 20.5	169.2 [49.6] 161.4 [47.3] 20.2	162.2 [47.5] 144.2 [42.3] 19.8
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	196.6 [57.6] 116.6 [34.2] 21.5	191.1 [56.0] 108.7 [31.9] 21.2	183.2 [53.7] 97.1 [28.5] 20.8	180.9 [53.0] 143.5 [42.1] 21.5	175.9 [51.6] 133.7 [39.2] 21.2	168.6 [49.4] 119.5 [35.0] 20.7	166.6 [48.8] 166.6 [48.8] 21.3	162.0 [47.5] 157.6 [46.2] 21.0	155.3 [45.5] 140.8 [41.3] 20.6
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	188.7 [55.3] 112.1 [32.9] 22.3	183.5 [53.8] 104.4 [30.6] 22.0	175.8 [51.5] 93.3 [27.3] 21.6	173.0 [50.7] 139.0 [40.7] 22.3	168.2 [49.3] 129.5 [38.0] 21.9	161.2 [47.2] 115.7 [33.9] 21.5	158.8 [46.5] 158.8 [46.5] 22.1	154.4 [45.3] 153.4 [45.0] 21.8	147.9 [43.3] 137.0 [40.2] 21.3
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	180.4 [52.9] 107.2 [31.4] 23.1	175.4 [51.4] 99.9 [29.3] 22.8	168.1 [49.3] 89.2 [26.1] 22.3	164.7 [48.3] 134.1 [39.3] 23.1	160.1 [46.9] 124.9 [36.6] 22.7	153.5 [45.0] 111.6 [32.7] 22.3	150.4 [44.1] 150.4 [44.1] 22.9	146.3 [42.9] 146.3 [42.9] 22.6	140.2 [41.1] 132.9 [39.0] 22.1

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACGYB240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			9700 [4578]	7400 [3492]	6475 [3056]	9700 [4578]	7400 [3492]	6475 [3056]	9700 [4578]	7400 [3492]	6475 [3056]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	313.9 [92.0] 174.5 [51.1] 18.1	297.1 [87.1] 152.4 [44.7] 17.7	290.4 [85.1] 143.5 [42.1] 17.5	282.7 [82.9] 201.2 [59.0] 18.1	267.6 [78.4] 175.7 [51.5] 17.6	261.5 [76.6] 165.5 [48.5] 17.4	264.5 [77.5] 229.4 [67.2] 17.9	250.3 [73.4] 200.3 [58.7] 17.4	244.6 [71.7] 188.7 [55.3] 17.3
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	307.6 [90.2] 171.7 [50.3] 19.1	291.2 [85.3] 149.9 [43.9] 18.6	284.6 [83.4] 141.2 [41.4] 18.4	276.5 [81.0] 198.3 [58.1] 19.0	261.7 [76.7] 173.2 [50.8] 18.5	255.7 [74.9] 163.1 [47.8] 18.3	258.2 [75.7] 226.6 [66.4] 18.9	244.4 [71.6] 197.9 [58.0] 18.4	238.8 [70.0] 186.3 [54.6] 18.2
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	301.1 [88.2] 168.5 [49.4] 20.1	285.0 [83.5] 147.1 [43.1] 19.6	278.5 [81.6] 138.6 [40.6] 19.3	269.9 [79.1] 195.2 [57.2] 20.0	255.5 [74.9] 170.4 [49.9] 19.5	249.7 [73.2] 160.5 [47.0] 19.3	251.6 [73.7] 223.4 [65.5] 19.9	238.2 [69.8] 195.1 [57.2] 19.4	232.8 [68.2] 183.7 [53.8] 19.1
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	294.3 [86.3] 165.0 [48.4] 21.1	278.5 [81.6] 144.1 [42.2] 20.5	272.2 [79.8] 135.7 [39.8] 20.3	263.1 [77.1] 191.6 [56.2] 21.0	249.1 [73.0] 167.4 [49.1] 20.4	243.4 [71.3] 157.6 [46.2] 20.2	244.8 [71.7] 219.9 [64.4] 20.9	231.7 [67.9] 192.0 [56.3] 20.3	226.5 [66.4] 180.8 [53.0] 20.1
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	287.2 [84.2] 161.1 [47.2] 22.1	271.9 [79.7] 140.7 [41.2] 21.5	265.7 [77.9] 132.5 [38.8] 21.2	256.1 [75.1] 187.8 [55.0] 22.0	242.4 [71.0] 164.0 [48.1] 21.4	236.9 [69.4] 154.4 [45.3] 21.2	237.8 [69.7] 216.0 [63.3] 21.8	225.0 [65.9] 188.6 [55.3] 21.3	219.9 [64.4] 177.6 [52.1] 21.0
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	279.9 [82.0] 156.9 [46.0] 23.0	264.9 [77.6] 137.0 [40.2] 22.4	258.9 [75.9] 129.0 [37.8] 22.2	248.7 [72.9] 183.6 [53.8] 23.0	235.4 [69.0] 160.3 [47.0] 22.3	230.1 [67.4] 151.0 [44.3] 22.1	230.4 [67.5] 211.8 [62.1] 22.8	218.1 [63.9] 185.0 [54.2] 22.2	213.1 [62.5] 174.2 [51.1] 22
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	272.3 [79.8] 152.4 [44.7] 24.0	257.7 [75.5] 133.1 [39.0] 23.4	251.9 [73.8] 125.3 [36.7] 23.1	241.1 [70.7] 179.1 [52.5] 23.9	228.2 [66.9] 156.4 [45.8] 23.3	223.0 [65.4] 147.3 [43.2] 23.0	222.8 [65.3] 207.3 [60.8] 23.8	210.9 [61.8] 181.0 [53.0] 23.2	206.1 [60.4] 170.5 [50.0] 22.9
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	264.4 [77.5] 147.5 [43.2] 25.0	250.3 [73.4] 128.9 [37.8] 24.3	244.6 [71.7] 121.3 [35.6] 24.1	233.2 [68.3] 174.2 [51.1] 24.9	220.8 [64.7] 152.2 [44.6] 24.3	215.8 [63.2] 143.3 [42.0] 24.0	215.0 [63.0] 202.4 [59.3] 24.8	203.5 [59.6] 176.8 [51.8] 24.1	198.8 [58.3] 166.5 [48.8] 23.9
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	256.3 [75.1] 142.4 [41.7] 26.0	242.6 [71.1] 124.3 [36.4] 25.3	237.1 [69.5] 117.1 [34.3] 25	225.1 [66.0] 169.0 [49.5] 25.9	213.1 [62.5] 147.6 [43.3] 25.2	208.2 [61.0] 139.0 [40.7] 24.9	206.8 [60.6] 197.2 [57.8] 25.8	195.8 [57.4] 172.3 [50.5] 25.1	191.3 [56.1] 162.2 [47.5] 24.8
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	247.9 [72.7] 136.8 [40.1] 27.0	234.6 [68.8] 119.5 [35.0] 26.2	229.3 [67.2] 112.5 [33.0] 26	216.7 [63.5] 163.5 [47.9] 26.9	205.1 [60.1] 142.8 [41.9] 26.2	200.5 [58.8] 134.5 [39.4] 25.9	198.4 [58.1] 191.7 [56.2] 26.8	187.8 [55.0] 167.4 [49.1] 26.0	183.6 [53.8] 157.7 [46.2] 25.8
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	239.2 [70.1] 131.0 [38.4] 27.9	226.4 [66.4] 114.4 [33.5] 27.2	221.3 [64.9] 107.7 [31.6] 26.9	208.1 [61.0] 157.6 [46.2] 27.9	196.9 [57.7] 137.7 [40.4] 27.1	192.5 [56.4] 129.6 [38.0] 26.8	189.8 [55.6] 185.9 [54.5] 27.7	179.6 [52.6] 162.3 [47.6] 27.0	175.5 [51.4] 152.8 [44.8] 26.7

DR —Depression ratio
dbE —Entering air dry bulb
wbE —Entering air wet bulb
Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACGYB300

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①										
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]		11550 [5451]	8475 [4000]	7700 [3634]	11550 [5451]	8475 [4000]	7700 [3634]	11550 [5451]	8475 [4000]	7700 [3634]
DR ①		.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	352.5 [103.3] 203.8 [59.7] 24.5	330.7 [96.9] 174.3 [51.1] 23.8	325.2 [95.3] 166.8 [48.9] 23.6	331.2 [97.1] 239.6 [70.2] 24.5	310.7 [91.1] 204.9 [60.1] 23.7	305.5 [89.5] 196.1 [57.5] 23.5	308.4 [90.4] 272.0 [79.7] 24.1	289.3 [84.8] 232.6 [68.2] 23.4
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	348.3 [102.1] 202.3 [59.3] 25.9	326.7 [95.8] 173 [50.7] 25.0	321.3 [94.2] 165.6 [48.5] 24.8	326.9 [95.8] 238.1 [69.8] 25.8	306.7 [89.9] 203.6 [59.7] 25.0	301.6 [88.4] 194.9 [57.1] 24.8	304.2 [89.2] 270.6 [79.3] 25.5	285.3 [83.6] 231.4 [67.8] 24.7
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	343.0 [100.5] 200.1 [58.6] 27.2	321.7 [94.3] 171.2 [50.2] 26.3	316.4 [92.7] 163.9 [48.0] 26.1	321.6 [94.3] 235.9 [69.1] 27.1	301.7 [88.4] 201.8 [59.1] 26.3	296.7 [87.0] 193.1 [56.6] 26.0	298.8 [87.6] 268.4 [78.7] 26.8	280.3 [82.2] 229.5 [67.3] 25.9
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	336.6 [98.7] 197.2 [57.8] 28.5	315.8 [92.6] 168.6 [49.4] 27.6	310.5 [91.0] 161.4 [47.3] 27.4	315.2 [92.4] 233.0 [68.3] 28.4	295.7 [86.7] 199.2 [58.4] 27.5	290.8 [85.2] 190.7 [55.9] 27.3	292.5 [85.7] 265.4 [77.8] 28.1	274.4 [80.4] 227.0 [66.5] 27.2
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	329.2 [96.5] 193.5 [56.7] 29.8	308.8 [90.5] 165.5 [48.5] 28.9	303.7 [89.0] 158.4 [46.4] 28.6	307.8 [90.2] 229.3 [67.2] 29.7	288.8 [84.6] 196.1 [57.5] 28.8	284.0 [83.2] 187.7 [55.0] 28.6	285.1 [83.6] 261.7 [76.7] 29.4	267.4 [78.4] 223.8 [65.6] 28.5
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	320.7 [94.0] 189.1 [55.4] 31.1	300.8 [88.2] 161.7 [47.4] 30.1	295.8 [86.7] 154.8 [45.4] 29.9	299.3 [87.7] 224.8 [65.9] 31.0	280.8 [82.3] 192.3 [56.4] 30.1	276.1 [80.9] 184.1 [54.0] 29.8	276.6 [81.1] 257.3 [75.4] 30.7	259.5 [76.1] 220.0 [64.5] 29.8
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	311.2 [91.2] 183.9 [53.9] 32.4	291.9 [85.6] 157.2 [46.1] 31.4	287.0 [84.1] 150.5 [44.1] 31.2	289.8 [84.9] 219.6 [64.4] 32.4	271.9 [79.7] 187.8 [55.0] 31.4	267.4 [78.4] 179.8 [52.7] 31.1	267.0 [78.3] 252.1 [73.9] 32	250.5 [73.4] 215.6 [63.2] 31.0
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	300.6 [88.1] 177.9 [52.1] 33.7	282.0 [82.6] 152.2 [44.6] 32.7	277.3 [81.3] 145.7 [42.7] 32.4	279.2 [81.8] 213.7 [62.6] 33.7	261.9 [76.8] 182.8 [53.6] 32.6	257.6 [75.5] 175.0 [51.3] 32.4	256.5 [75.2] 246.2 [72.2] 33.3	240.6 [70.5] 210.5 [61.7] 32.3
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	288.9 [84.7] 171.2 [50.2] 35.0	271.0 [79.4] 146.4 [42.9] 34.0	266.5 [78.1] 140.2 [41.1] 33.7	267.6 [78.4] 207.0 [60.7] 35.0	251.0 [73.6] 177.0 [51.9] 33.9	246.8 [72.3] 169.5 [49.7] 33.6	244.8 [71.7] 239.5 [70.2] 34.7	229.7 [67.3] 204.8 [60.0] 33.6
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	276.2 [80.9] 163.8 [48.0] 36.4	259.1 [75.9] 140.1 [41.1] 35.2	254.8 [74.7] 134.1 [39.3] 35	254.9 [74.7] 199.6 [58.5] 36.3	239.1 [70.1] 170.7 [50.0] 35.2	235.1 [68.9] 163.4 [47.9] 34.9	232.1 [68.0] 232.0 [68.0] 36.0	217.8 [63.8] 198.4 [58.1] 34.8
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	262.5 [76.9] 155.6 [45.6] 37.7	246.2 [72.2] 133.1 [39.0] 36.5	242.1 [71.0] 127.4 [37.3] 36.2	241.1 [70.7] 191.4 [56.1] 37.6	226.2 [66.3] 163.7 [48.0] 36.4	222.5 [65.2] 156.7 [45.9] 36.1	218.4 [64.0] 218.4 [64.0] 37.3	204.9 [60.1] 191.4 [56.1] 36.1

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

AIRFLOW PERFORMANCE — 15 TON [52.7 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RACGYB180 Voltage 208/230, 460, 575 — 3 phase 60 Hz																											
	External Static Pressure—Inches of Water [kPa]																											
	0.1 [.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]								
RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP								
4800 [2265]	—	—	—	—	653 [1.53]	686 [1.70]	716 [1.86]	742 [2.01]	766 [2.15]	786 [2.28]	802 [2.41]	815 [2.52]	825 [2.63]	892 [2.78]	914 [2.89]	935 [3.00]	960 [3.10]	980 [3.16]	993 [3.23]	1011 [3.29]								
4900 [2312]	—	—	—	—	659 [1.59]	692 [1.77]	722 [1.94]	749 [2.11]	772 [2.26]	792 [2.40]	809 [2.54]	822 [2.66]	875 [2.77]	897 [2.89]	919 [3.00]	940 [3.10]	960 [3.19]	980 [3.28]	998 [3.35]	1016 [3.42]								
5000 [2359]	—	—	—	—	665 [1.66]	699 [1.85]	729 [2.03]	756 [2.21]	779 [2.37]	799 [2.53]	816 [2.67]	857 [2.75]	880 [2.87]	903 [3.00]	924 [3.11]	945 [3.21]	965 [3.31]	984 [3.40]	1003 [3.48]	1021 [3.56]								
5100 [2407]	—	—	—	—	671 [1.73]	705 [1.93]	735 [2.13]	762 [2.31]	785 [2.49]	806 [2.65]	822 [2.81]	863 [2.84]	886 [2.98]	908 [3.10]	929 [3.22]	950 [3.33]	970 [3.43]	989 [3.53]	1008 [3.61]	1026 [3.69]								
5200 [2454]	—	—	—	640 [1.58]	677 [1.80]	711 [2.01]	741 [2.22]	768 [2.42]	792 [2.60]	812 [2.78]	844 [2.80]	868 [2.95]	891 [3.08]	913 [3.21]	934 [3.34]	955 [3.45]	975 [3.56]	994 [3.65]	1013 [3.75]	1056 [4.23]								
5300 [2501]	—	—	—	646 [1.64]	683 [1.87]	717 [2.10]	747 [2.32]	774 [2.52]	798 [2.72]	818 [2.91]	850 [2.90]	873 [3.05]	896 [3.18]	918 [3.33]	939 [3.45]	960 [3.57]	980 [3.68]	999 [3.78]	1018 [3.88]	1060 [4.36]								
5400 [2548]	—	—	—	652 [1.70]	689 [1.95]	723 [2.19]	753 [2.41]	781 [2.63]	804 [2.84]	825 [3.04]	855 [3.00]	878 [3.15]	901 [3.30]	923 [3.44]	945 [3.57]	965 [3.69]	985 [3.81]	1004 [3.92]	1022 [4.01]	1064 [4.51]								
5500 [2595]	—	—	—	657 [1.77]	695 [2.03]	729 [2.27]	759 [2.51]	787 [2.74]	810 [2.96]	836 [2.93]	860 [3.10]	884 [3.26]	906 [3.41]	928 [3.55]	950 [3.69]	970 [3.82]	990 [3.94]	1009 [4.05]	1027 [4.15]	1068 [4.65]								
5600 [2643]	—	—	—	663 [1.84]	700 [2.11]	734 [2.36]	765 [2.61]	792 [2.86]	816 [3.09]	841 [3.03]	866 [3.20]	889 [3.37]	912 [3.52]	934 [3.67]	955 [3.81]	975 [3.94]	995 [4.07]	1014 [4.18]	1051 [4.59]	1072 [4.80]								
5700 [2690]	—	—	—	669 [1.91]	706 [2.19]	740 [2.46]	771 [2.72]	798 [2.97]	822 [3.21]	847 [3.13]	871 [3.31]	894 [3.48]	917 [3.64]	939 [3.79]	960 [3.93]	980 [4.07]	1000 [4.20]	1019 [4.32]	1055 [4.74]	—								
5800 [2737]	—	—	—	674 [1.98]	712 [2.27]	746 [2.55]	777 [2.82]	804 [3.09]	828 [3.34]	852 [3.23]	876 [3.42]	900 [3.59]	922 [3.75]	944 [3.91]	965 [4.06]	985 [4.20]	1005 [4.33]	1023 [4.46]	1059 [4.89]	—								
5900 [2784]	—	—	—	679 [2.05]	717 [2.36]	751 [2.65]	782 [2.93]	810 [3.21]	833 [3.15]	858 [3.34]	882 [3.52]	905 [3.70]	927 [3.87]	949 [4.03]	970 [4.18]	990 [4.33]	1010 [4.47]	1028 [4.60]	1064 [5.04]	—								
6000 [2831]	—	—	643 [1.81]	684 [2.13]	722 [2.44]	757 [2.75]	788 [3.04]	815 [3.33]	839 [3.25]	863 [3.44]	887 [3.63]	910 [3.82]	932 [3.99]	954 [4.16]	975 [4.31]	995 [4.46]	1014 [4.60]	1046 [4.97]	1068 [5.20]	—								
6100 [2878]	—	—	648 [1.88]	690 [2.21]	727 [2.53]	762 [2.85]	793 [3.15]	821 [3.45]	844 [3.35]	869 [3.55]	892 [3.75]	915 [3.93]	938 [4.11]	959 [4.28]	980 [4.44]	1000 [4.60]	1019 [4.74]	1051 [5.12]	1073 [5.36]	—								
6200 [2926]	—	—	653 [1.94]	695 [2.29]	733 [2.63]	767 [2.95]	798 [3.27]	826 [3.58]	849 [3.46]	874 [3.66]	898 [3.86]	921 [4.05]	943 [4.23]	964 [4.41]	985 [4.57]	1005 [4.73]	1024 [4.88]	1056 [5.28]	—	—								
6300 [2973]	—	—	658 [2.02]	700 [2.37]	738 [2.72]	772 [3.06]	804 [3.39]	831 [3.30]	855 [3.56]	879 [3.77]	903 [3.98]	926 [4.17]	948 [4.36]	969 [4.54]	990 [4.71]	1010 [4.87]	1029 [5.02]	1060 [5.45]	—	—								
6400 [3020]	—	—	663 [2.09]	704 [2.46]	743 [2.82]	777 [3.16]	809 [3.50]	835 [3.45]	860 [3.67]	885 [3.89]	908 [4.09]	931 [4.29]	953 [4.48]	974 [4.67]	995 [4.84]	1015 [5.01]	1044 [5.36]	1065 [5.62]	—	—								
6500 [3067]	—	—	668 [2.17]	709 [2.54]	747 [2.91]	782 [3.27]	814 [3.62]	841 [3.55]	866 [3.78]	890 [4.00]	914 [4.21]	936 [4.42]	958 [4.61]	980 [4.80]	1000 [4.98]	1020 [5.15]	1048 [5.53]	1070 [5.79]	—	—								
6600 [3114]	—	—	672 [2.24]	714 [2.63]	752 [3.01]	787 [3.38]	819 [3.75]	846 [3.66]	871 [3.89]	895 [4.12]	919 [4.33]	942 [4.54]	963 [4.74]	985 [4.93]	1005 [5.12]	1025 [5.29]	1053 [5.69]	1075 [5.97]	—	—								
6700 [3162]	—	—	677 [2.32]	719 [2.72]	757 [3.12]	792 [3.50]	824 [3.87]	852 [3.77]	877 [4.01]	901 [4.23]	924 [4.46]	947 [4.67]	969 [4.87]	990 [5.07]	1010 [5.26]	1030 [5.44]	1058 [5.87]	—	—	—								
6800 [3209]	—	—	681 [2.40]	723 [2.82]	762 [3.22]	797 [3.61]	832 [3.63]	857 [3.88]	882 [4.12]	906 [4.35]	929 [4.58]	952 [4.80]	974 [5.01]	995 [5.21]	1015 [5.40]	1042 [5.77]	1064 [6.05]	—	—	—								
6900 [3256]	—	640 [2.06]	686 [2.49]	727 [2.91]	766 [3.33]	801 [3.73]	837 [3.74]	863 [3.99]	888 [4.24]	911 [4.48]	935 [4.71]	957 [4.93]	979 [5.14]	1000 [5.35]	1020 [5.54]	1047 [5.94]	1069 [6.23]	—	—	—								
7000 [3303]	—	644 [2.13]	690 [2.57]	732 [3.01]	770 [3.43]	806 [3.85]	843 [3.85]	868 [4.11]	893 [4.36]	917 [4.60]	940 [4.83]	962 [5.06]	984 [5.28]	1005 [5.49]	1025 [5.69]	1053 [6.12]	1074 [6.42]	—	—	—								
7100 [3350]	—	648 [2.21]	694 [2.66]	736 [3.11]	775 [3.54]	810 [3.97]	849 [3.96]	874 [4.22]	898 [4.48]	922 [4.72]	945 [4.96]	968 [5.19]	989 [5.41]	1010 [5.63]	1036 [6.01]	1058 [6.31]	—	—	—	—								
7200 [3398]	—	652 [2.29]	698 [2.75]	740 [3.21]	779 [3.66]	814 [4.09]	854 [4.08]	879 [4.34]	904 [4.60]	928 [4.85]	951 [5.09]	973 [5.33]	994 [5.55]	1015 [5.77]	1042 [6.19]	1063 [6.49]	—	—	—	—								

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F						G						H					
Motor H.P. [W]	3 [2237.1]						5 [3728.5]						5 [3728.5]					
Blower Sheave	BK90H						BK95H						BK90H					
Motor Sheave	1VL44						1VP56						1VP56					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM	813	777	745	712	681	645	1012	985	949	912	881	844	1052	1016	983	952	916	878

- NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—15 TON [52.7 kW]—60 Hz—DOWNFLOW

Air Flow CFM [L/s]	Model RACGB180		Voltage 208/230, 460, 575 — 3 phase 60 Hz		External Static Pressure—Inches of Water [kPa]																																			
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																				
RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP																				
4800 [2265]	—	—	—	—	574	1.23	611	1.35	648	1.49	686	1.65	724	1.83	763	2.03	802	2.25	835	3.46	866	3.73	877	3.78	882	3.82	991	4.02	1014	4.23										
4900 [2312]	—	—	—	541	1.15	577	1.25	613	1.37	650	1.52	687	1.68	725	1.86	764	2.07	803	2.29	836	3.45	866	3.72	878	3.21	901	3.36	924	3.52	947	3.69	970	3.88	993	4.08	1015	4.30			
5000 [2359]	—	—	—	544	1.16	579	1.27	615	1.40	652	1.54	689	1.71	727	1.90	765	2.11	804	2.34	836	3.44	867	3.71	879	3.24	902	3.40	925	3.56	948	3.75	971	3.94	994	4.15	1017	4.37			
5100 [2407]	—	—	—	546	1.18	582	1.29	618	1.42	654	1.58	691	1.75	728	1.94	766	2.15	805	2.39	837	3.43	868	3.70	881	3.28	904	3.44	927	3.61	950	3.80	973	4.00	995	4.22	1018	4.44			
5200 [2454]	—	—	—	549	1.20	584	1.32	620	1.45	656	1.61	693	1.79	730	1.98	767	2.20	806	2.44	838	3.42	868	3.69	882	3.32	905	3.49	928	3.67	951	3.86	974	4.07	997	4.29	1020	4.52			
5300 [2501]	—	—	—	552	1.23	587	1.35	622	1.49	658	1.65	694	1.83	731	2.03	769	2.25	807	2.49	839	3.42	869	3.68	883	3.37	906	3.54	929	3.72	952	3.92	975	4.13	999	4.36	1022	4.60			
5400 [2548]	—	—	—	555	1.25	589	1.38	625	1.52	660	1.69	696	1.87	733	2.07	770	2.30	808	2.55	840	3.42	870	3.70	884	3.41	908	3.59	931	3.78	954	3.98	977	4.20	1000	4.43	1023	4.68			
5500 [2595]	—	—	—	558	1.28	592	1.41	627	1.56	662	1.73	698	1.92	735	2.12	771	2.35	809	2.60	841	3.43	870	3.70	886	3.46	909	3.64	932	3.84	955	4.05	979	4.27	1002	4.51	1025	4.76			
5600 [2643]	—	—	—	561	1.31	595	1.45	630	1.60	665	1.77	700	1.96	736	2.18	773	2.41	810	2.67	842	3.44	871	3.71	887	3.51	910	3.70	934	3.90	957	4.12	980	4.35	1004	4.59	1027	4.85			
5700 [2690]	—	—	—	564	1.35	598	1.48	632	1.64	667	1.82	702	2.01	738	2.23	774	2.47	813	2.73	843	3.45	872	3.73	889	3.56	912	3.76	935	3.96	959	4.19	982	4.42	1005	4.67	1029	4.94			
5800 [2737]	—	—	—	567	1.38	601	1.52	635	1.68	669	1.87	704	2.07	740	2.29	776	2.53	813	2.79	844	3.47	873	3.75	890	3.61	913	3.82	937	4.03	960	4.26	984	4.50	1007	4.76	1030	5.03			
5900 [2784]	—	—	—	571	1.42	604	1.57	637	1.73	672	1.92	706	2.12	742	2.35	778	2.60	814	2.86	845	3.49	874	3.77	891	3.67	915	3.88	938	4.10	962	4.34	985	4.58	1009	4.85	1032	5.12			
6000 [2831]	—	541	1.34	574	1.46	607	1.61	640	1.78	674	1.97	709	2.18	744	2.41	779	2.66	815	2.93	846	3.51	875	3.79	893	3.73	917	3.94	940	4.17	964	4.41	987	4.67	1011	4.94	1034	5.22			
6100 [2878]	—	545	1.37	577	1.51	610	1.66	643	1.83	677	2.03	711	2.24	746	2.48	781	2.73	817	3.01	848	3.54	876	3.82	895	3.79	918	4.01	942	4.25	965	4.49	989	4.75	1013	5.03	1036	5.32			
6200 [2926]	—	549	1.42	581	1.55	613	1.71	646	1.89	679	2.09	713	2.31	748	2.54	783	2.80	818	3.08	849	3.57	878	3.85	896	3.86	920	4.08	944	4.32	967	4.58	991	4.84	1015	5.12	1038	5.42			
6300 [2973]	—	553	1.46	584	1.60	616	1.76	649	1.95	682	2.15	716	2.37	750	2.61	785	2.88	820	3.16	850	3.60	879	3.89	898	3.92	922	4.16	945	4.40	969	4.66	993	4.93	1016	5.22	1040	5.52			
6400 [3020]	—	556	1.51	588	1.65	619	1.82	652	2.01	685	2.21	718	2.44	752	2.69	787	2.96	822	3.24	852	3.64	880	3.93	900	3.99	923	4.23	947	4.48	971	4.75	995	5.03	1019	5.32	1042	5.62			
6500 [3067]	—	560	1.56	591	1.71	623	1.88	655	2.07	688	2.28	721	2.51	755	2.76	789	3.03	824	3.33	853	3.68	882	3.97	901	4.06	925	4.31	949	4.57	973	4.84	997	5.12	1021	5.42	1044	5.73			
6600 [3114]	—	564	1.61	595	1.76	626	1.94	658	2.13	690	2.35	723	2.58	757	2.84	791	3.12	827	3.44	855	3.73	883	4.02	903	4.14	927	4.39	951	4.65	975	4.93	999	5.22	1023	5.52	1047	5.84			
6700 [3162]	—	568	1.66	599	1.82	630	2.00	661	2.20	693	2.42	726	2.66	759	2.92	793	3.20	828	3.49	857	3.78	885	4.07	905	4.21	929	4.47	953	4.74	977	5.02	1001	5.32	1025	5.63	1049	5.95			
6800 [3209]	—	542	1.58	572	1.72	602	1.88	633	2.07	665	2.27	696	2.49	729	2.74	762	3.00	795	3.29	830	3.54	858	3.83	886	4.12	907	4.29	931	4.55	955	4.83	979	5.12	1003	5.42	1027	5.74	1051	6.07	
6900 [3256]	—	547	1.64	576	1.78	606	1.95	637	2.14	668	2.34	699	2.57	732	2.82	764	3.09	797	3.37	832	3.60	860	3.89	888	4.18	909	4.37	933	4.64	957	4.92	981	5.22	1005	5.53	1029	5.85	1053	6.19	
7000 [3303]	—	551	1.69	580	1.84	610	2.01	641	2.21	671	2.42	703	2.65	734	2.90	767	3.18	800	3.43	864	3.65	862	3.95	889	4.24	911	4.46	935	4.73	959	5.02	983	5.32	1007	5.63	1031	5.96	—	—	
7100 [3350]	527	1.62	556	1.75	585	1.91	614	2.08	644	2.28	675	2.50	706	2.73	737	2.99	769	3.27	802	3.56	836	3.72	864	4.01	891	4.31	913	4.54	937	4.82	961	5.12	985	5.42	1010	5.74	1034	6.08	—	—
7200 [3398]	532	1.68	560	1.82	589	1.98	618	2.16	648	2.36	678	2.58	709	2.82	740	3.08	772	3.36	805	3.66	838	3.78	866	4.08	893	4.37	915	4.63	939	4.92	963	5.22	988	5.53	1012	5.86	1036	6.20	—	—

NOTE: F-Drive left of bold line G-Drive between the bold lines. H-Drive right of both bold lines.

Drive Package	F						G						H					
Motor H.P. [W]	3 [2237.1]						5 [3728.5]						5 [3728.5]					
Blower Sheave	BK90H						BK95H						BK90H					
Motor Sheave	1VL44						1VP56						1VP56					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM	806	774	743	707	672	637	1000	967	935	901	866	832	1037	1008	978	945	912	878

NOTES: 1. Factory sheave settings are shown in bold type.

2 Do not set motor sheave below minimum or maximum turns open shown

3 Be-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure

3. Re-adjustment of snare required to achieve rated airflow at Ambient Minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure

4. Drive data shown is for horizontal airflow with dry coil. Add correction for vertical airflow.
5. An BPM meter must be used to receive an accurate airflow reading.

COMPONENT AIRFLOW RESISTANCE—15 TON [52.7 kW]

CFM [L/s]	4800	5000	5200	5400	5600	5800	6000	6200	6400	6600	6800	7000	7200
	[2265]	[2359]	[2454]	[2548]	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3398]
Resistance—Inches of Water [kPa]													
Wet Coil	0.01 [0.00]	0.02 [0.00]	0.02 [0.00]	0.03 [0.01]	0.03 [0.01]	0.04 [0.01]	0.04 [0.01]	0.04 [0.01]	0.05 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [0.01]	0.06 [0.01]
Downflow Economizer RA Damper Open	0.17 [0.08]	0.18 [0.08]	0.19 [0.08]	0.2 [0.09]	0.21 [0.09]	0.22 [0.10]	0.23 [0.10]	0.24 [0.11]	0.25 [0.11]	0.26 [0.12]	0.26 [0.12]	0.27 [0.12]	0.28 [0.13]
Horizontal Economizer RA Damper Open	0.07 [0.03]	0.07 [0.03]	0.08 [0.04]	0.08 [0.04]	0.08 [0.04]	0.08 [0.04]	0.08 [0.04]	0.08 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]
MERV 8 Filter	0.075 [0.03]	0.079 [0.03]	0.083 [0.03]	0.087 [0.04]	0.091 [0.04]	0.095 [0.04]	0.099 [0.04]	0.103 [0.04]	0.107 [0.05]	0.111 [0.05]	0.116 [0.05]	0.12 [0.05]	0.124 [0.05]
MERV 13 Filter	0.019 [0.00]	0.026 [0.01]	0.032 [0.01]	0.038 [0.01]	0.044 [0.02]	0.051 [0.02]	0.057 [0.02]	0.063 [0.02]	0.07 [0.03]	0.076 [0.03]	0.082 [0.03]	0.089 [0.04]	0.095 [0.04]

AIRFLOW CORRECTION FACTORS—15 TON [52.7 kW]

CFM [L/s]	4800 [2265]	5000 [2359]	5200 [2454]	5400 [2548]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]
	Resistance—Inches of Water [kPa]												
Total kBtu/h	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.03	1.04
Sensible kBtu/h	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13
Power kW	0.98	0.99	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02

NOTE: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—17.5 TON [61.5 kW]—60 Hz—SIDEFLOW

Air Flow CFM [L/s]	Model RACGYB210 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																						
	External Static Pressure—Inches of Water [kPa]																																						
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																			
RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP																			
5600 [2643]	—	—	—	663	1.84	700	2.11	734	2.36	765	2.61	792	2.86	816	3.09	841	3.03	866	3.20	889	3.37	912	3.52	934	3.67	955	3.81	975	3.94	995	4.07	1014	4.18	1040	4.44	1061	4.56		
5700 [2690]	—	—	—	669	1.91	706	2.19	740	2.46	771	2.72	798	2.97	822	3.21	847	3.13	871	3.31	894	3.48	917	3.64	939	3.79	960	3.93	980	4.07	1000	4.20	1019	4.32	1045	4.56	1066	4.68		
5800 [2737]	—	—	633	1.68	674	1.98	712	2.27	746	2.55	777	2.82	804	3.09	828	3.34	852	3.23	876	3.42	900	3.59	922	3.75	944	3.91	965	4.06	985	4.20	1005	4.33	1023	4.46	1049	4.68	1070	4.81	
5900 [2784]	—	—	638	1.74	679	2.05	717	2.36	751	2.65	782	2.93	810	3.21	833	3.15	858	3.34	882	3.52	905	3.70	927	3.87	949	4.03	970	4.18	990	4.33	1010	4.47	1028	4.60	1054	4.81	1075	4.94	
6000 [2831]	—	—	643	1.81	684	2.13	722	2.44	757	2.75	788	3.04	815	3.33	839	3.25	863	3.44	887	3.63	910	3.82	932	3.99	954	4.16	975	4.31	995	4.46	1014	4.60	1038	4.80	1059	4.94	1080	5.07	
6100 [2878]	—	—	648	1.88	690	2.21	727	2.53	762	2.85	793	3.15	821	3.45	844	3.35	869	3.55	882	3.75	915	3.93	938	4.11	959	4.28	980	4.44	1000	4.60	1019	4.74	1043	4.92	1064	5.06	1084	5.20	
6200 [2926]	—	—	653	1.94	695	2.29	733	2.63	767	2.95	798	3.27	826	3.58	849	3.46	874	3.66	888	3.86	921	4.05	943	4.23	964	4.41	985	4.57	1005	4.73	1024	4.88	1047	5.05	1068	5.19	1089	5.34	
6300 [2973]	—	—	658	2.02	700	2.37	738	2.72	772	3.06	804	3.39	830	3.34	855	3.56	879	3.77	903	3.98	926	4.17	948	4.36	969	4.54	990	4.71	1010	4.87	1029	5.02	1052	5.17	1073	5.33	1094	5.47	
6400 [3020]	—	—	663	2.09	704	2.46	743	2.82	777	3.16	809	3.50	835	3.45	860	3.67	885	3.89	908	4.09	931	4.29	953	4.48	974	4.67	995	4.84	1015	5.01	1036	5.14	1057	5.30	1078	5.46	1098	5.61	
6500 [3067]	—	—	668	2.17	709	2.54	747	2.91	782	3.27	814	3.62	841	3.55	866	3.78	890	4.00	914	4.21	936	4.42	958	4.61	980	4.80	1000	4.98	1020	5.15	1041	5.27	1062	5.43	1083	5.59	1103	5.74	
6600 [3114]	—	—	672	2.24	714	2.63	752	3.01	787	3.38	819	3.75	846	3.66	871	3.89	895	4.12	919	4.33	942	4.54	963	4.74	985	4.93	1005	5.12	1025	5.29	1046	5.40	1067	5.56	1088	5.73	1108	5.88	
6700 [3162]	—	632	1.91	677	2.32	719	2.72	757	3.12	792	3.50	824	3.87	852	3.77	877	4.01	901	4.23	924	4.46	947	4.67	969	4.87	990	5.07	1010	5.26	1030	5.44	1051	5.53	1072	5.70	1093	5.86	—	—
6800 [3209]	—	636	1.98	681	2.40	723	2.82	762	3.22	797	3.61	828	4.00	857	3.88	882	4.12	906	4.35	929	4.58	952	4.80	974	5.01	995	5.21	1015	5.40	1035	5.47	1056	5.66	1077	5.83	1097	6.00	—	—
6900 [3256]	—	640	2.06	686	2.49	727	2.91	766	3.33	801	3.73	837	3.74	863	3.99	888	4.24	911	4.48	935	4.71	957	4.93	979	5.14	1000	5.35	1020	5.54	1040	5.60	1061	5.79	1082	5.97	1102	6.14	—	—
7000 [3303]	—	644	2.13	690	2.57	732	3.01	770	3.43	806	3.85	843	3.85	868	4.11	893	4.36	917	4.60	940	4.83	962	5.06	984	5.28	1005	5.49	1025	5.69	1045	5.73	1066	5.92	1087	6.10	1107	6.28	—	—
7100 [3350]	—	648	2.21	694	2.66	736	3.11	775	3.54	810	3.97	849	3.96	874	4.22	898	4.48	922	4.72	945	4.96	968	5.19	989	5.41	1010	5.63	1029	5.66	1050	5.86	1071	6.05	1092	6.24	—	—		
7200 [3398]	—	652	2.29	698	2.75	740	3.21	779	3.66	814	4.09	854	4.08	879	4.34	904	4.60	928	4.85	951	5.09	973	5.33	994	5.55	1015	5.77	1034	5.79	1056	5.99	1076	6.19	1097	6.38	—	—		
7300 [3445]	—	656	2.37	702	2.84	744	3.31	783	3.77	819	4.22	860	4.19	885	4.46	909	4.72	933	4.98	956	5.23	978	5.47	999	5.70	1020	5.92	1040	5.92	1061	6.13	1082	6.33	1102	6.52	—	—		
7400 [3492]	—	660	2.45	706	2.94	748	3.42	787	3.89	823	4.35	865	4.31	890	4.58	915	4.85	938	5.11	961	5.36	983	5.60	1005	5.84	1025	6.07	1045	6.05	1066	6.26	1087	6.46	1107	6.66	—	—		
7500 [3539]	—	664	2.53	710	3.03	752	3.52	791	4.00	827	4.48	871	4.43	896	4.71	920	4.98	944	5.24	966	5.50	988	5.74	1010	5.98	1029	5.96	1050	6.18	1071	6.40	1092	6.60	—	—	—	—		
7600 [3586]	—	667	2.62	713	3.13	756	3.63	795	4.13	851	4.25	876	4.55	901	4.83	925	5.11	949	5.37	972	5.63	994	5.89	1015	6.13	1035	6.09	1056	6.32	1077	6.53	1097	6.75	—	—	—	—		
7700 [3633]	—	671	2.71	717	3.23	760	3.74	799	4.25	856	4.37	882	4.67	907	4.96	931	5.24	954	5.51	977	5.77	999	6.03	1020	6.28	1040	6.22	1061	6.45	1082	6.67	1103	6.89	—	—	—	—		
7800 [3681]	—	674	2.80	720	3.33	763	3.86	803	4.37	862	4.49	887	4.79	912	5.08	936	5.37	959	5.65	982	5.92	1004	6.18	1025	6.43	1045	6.36	1067	6.59	1087	6.81	1108	7.03	—	—	—	—		
7900 [3728]	—	678	2.89	724	3.44	767	3.97	806	4.50	867	4.61	893	4.92	918	5.21	941	5.50	965	5.79	987	6.06	1009	6.32	1030	6.25	1051	6.49	1072	6.73	1093	6.95	—	—	—	—	—	—		
8000 [3775]	631	2.42	681	2.99	727	3.54	770	4.09	810	4.63	873	4.73	898	5.04	923	5.35	947	5.64	970	5.93	992	6.20	1014	6.47	1035	6.38	1056	6.63	1077	6.86	1098	7.10	—	—	—	—	—	—	
8100 [3822]	634	2.51	684	3.09	730	3.65	773	4.21	813	4.76	878	4.86	904	5.17	928	5.48	952	5.78	975	6.07	998	6.35	1019	6.62	1041	6.51	1062	6.76	1083	7.00	1104	7.24	—	—	—	—	—	—	
8200 [3869]	637	2.60	687	3.19	734	3.76	777	4.33	816	4.89	884	4.99	909	5.30	934	5.61	958	5.92	981	6.21	1003	6.50	1024	6.78	1046	6.65	1068	6.90	1088	7.15	1109	7.39	—	—	—	—	—	—	
8300 [3917]	640	2.69	690	3.29	737	3.88	780	4.45	820	5.02	890	5.11	915	5.44	939	5.75	963	6.06	986	6.36	1008	6.65	1030	6.93	1052	6.78	1073	7.04	1094	7.29	—	—	—	—	—	—	—	—	
8400 [3964]	643	2.78	693	3.39	740	3.99	783	4.58	823	5.16	895	5.24	920	5.57	945	5.89	968	6.20	991	6.50	1013	6.80	1036	6.65	1058	6.92	1079	7.18	1100	7.43	—	—	—	—	—	—	—	—	

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package	F												G												H											
Motor H.P. [W]	3 [2237.1]												5 [3728.5]												7.5 [5592.7]											
Blower Sheave	BK90H												BK95H												BK100H											
Motor Sheave	1VL44												1VP56												1VP65											
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6												
RPM	814	781	750	718	679	645	1014	978	943	913	876	845	1103	1070	1035	1003	967	932	1103	1070	1035	1003	967	932												

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.

4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

5. An RPM meter must be used to receive an accurate airflow reading.

AIRFLOW PERFORMANCE—17.5 TON [61.5 kW]—60 Hz—DOWNFLOW

Air Flow CFM [L/s]		Model RACGB210		Voltage 208/230, 460, 575 — 3 phase 60 Hz																		External Static Pressure—Inches of Water [kPa]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		RPM	BHP	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
5600 [2643]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

Drive Package		F						G						H					
Motor H.P. [W]		3 [2237.1]						5 [3728.5]						7.5 [5592.7]					
Blower Sheave		BK90H						BK95H						BK100H					
Motor Sheave		1VL44						1VP56						1VP65					
Turns Open		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM		806	776	743	713	678	637	1000	967	935	901	866	832	1084	1054	1024	991	959	926

COMPONENT AIRFLOW RESISTANCE—17.5 TON [61.5 kW]

CFM [L/s]	5600	5800	6000	6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400
	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]
	Resistance—Inches of Water [kPa]														
Wet Coil	0.03 [0.01]	0.04 [0.01]	0.04 [0.01]	0.04 [0.01]	0.05 [0.01]	0.05 [0.01]	0.06 [0.01]	0.06 [0.01]	0.06 [0.01]	0.07 [0.02]	0.07 [0.02]	0.08 [0.02]	0.08 [0.02]	0.08 [0.02]	0.09 [0.02]
Downflow Economizer RA Damper Open	0.21 [0.09]	0.22 [0.01]	0.23 [0.01]	0.24 [0.01]	0.25 [0.01]	0.26 [0.01]	0.26 [0.01]	0.27 [0.01]	0.28 [0.01]	0.29 [0.01]	0.3 [0.01]	0.31 [0.01]	0.32 [0.01]	0.33 [0.01]	0.33 [0.01]
Horizontal Economizer RA Damper Open	0.08 [0.03]	0.08 [0.03]	0.08 [0.03]	0.08 [0.03]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]
MERV 8 Filter	0.091 [0.04]	0.095 [0.04]	0.099 [0.04]	0.103 [0.04]	0.107 [0.05]	0.111 [0.05]	0.116 [0.05]	0.12 [0.05]	0.124 [0.05]	0.128 [0.06]	0.132 [0.06]	0.136 [0.06]	0.14 [0.06]	0.144 [0.06]	0.148 [0.06]
MERV 13 Filter	0.044 [0.02]	0.051 [0.02]	0.057 [0.02]	0.063 [0.02]	0.07 [0.03]	0.076 [0.03]	0.082 [0.03]	0.089 [0.04]	0.095 [0.04]	0.101 [0.04]	0.107 [0.05]	0.114 [0.05]	0.12 [0.05]	0.126 [0.05]	0.133 [0.06]

AIRFLOW CORRECTION FACTORS—17.5 TON [61.5 kW]

CFM [L/s]	5600	5800	6000	6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400
	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]
	Resistance—Inches of Water [kPa]														
Total kBtu/h	0.97	0.97	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.03	1.04
Sensible kBtu/h	0.87	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15
Power kW	0.98	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.02

NOTE: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—20 TON [70.3 kW]—60 Hz—SIDEFLOW

Air Flow CFM [L/s]	Model RACGB240		Voltage 208/230, 460, 575 — 3 phase 60 Hz		External Static Pressure—Inches of Water [kPa]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					0.1 [0.02]						0.2 [0.05]						0.3 [0.07]						0.4 [0.10]						0.5 [0.12]						0.6 [0.15]						0.7 [0.17]						0.8 [0.20]						0.9 [0.22]						1.0 [0.25]						1.1 [0.27]						1.2 [0.30]						1.3 [0.32]						1.4 [0.35]						1.5 [0.37]						1.6 [0.40]						1.7 [0.42]						1.8 [0.45]						1.9 [0.47]						2.0 [0.50]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

AIRFLOW PERFORMANCE—20 TON [70.3 kW]—60 Hz—SIDEFLOW (CONTINUED)

Drive Package	F					G					H							
Motor H.P. [W]	3 [2237.1]					5 [3728.5]					7.5 [5592.7]							
Blower Sheave	BK90H					BK95H					BK100H							
Motor Sheave	1VL44					1VP56					1VP65							
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM	919	883	847	818	789	761	1035	998	961	932	903	874	1138	1107	1076	1044	1012	979

- NOTES:** 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—20 TON [70.3 kW]—60 Hz—DOWNFLOW

Air Flow CFM [L/s]	Model RACGB240 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure—Inches of Water [kPa]																																							
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																				
RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP																				
6400 [3020]	—	—	—	—	636	1.80	668	2.03	699	2.26	731	2.51	762	2.76	793	3.02	823	3.29	854	3.56	884	3.84	914	4.13	945	4.56	971	4.82	997	5.08	1022	5.33	1046	5.59	1076	5.46				
6500 [3067]	—	—	—	—	640	1.85	672	2.08	703	2.32	734	2.57	765	2.82	796	3.08	826	3.35	857	3.63	887	3.91	917	4.20	947	4.62	973	4.88	998	5.14	1023	5.40	1047	5.66	1077	5.52				
6600 [3114]	—	—	—	—	644	1.91	675	2.14	706	2.38	737	2.63	768	2.89	799	3.15	829	3.42	859	3.70	889	3.99	919	4.28	948	4.67	974	4.94	999	5.21	1024	5.47	1048	5.73	1078	5.59				
6700 [3162]	—	—	—	—	648	1.97	679	2.20	710	2.45	741	2.70	771	2.95	802	3.22	832	3.49	862	3.71	892	4.06	921	4.35	950	4.74	975	5.01	1000	5.28	1025	5.55	1049	5.81	1079	5.66				
6800 [3209]	—	—	—	—	652	2.03	683	2.27	714	2.51	744	2.76	775	3.02	805	3.29	835	3.56	865	3.85	894	4.14	924	4.43	951	4.80	977	5.08	1002	5.35	1028	5.63	1050	5.90	1081	5.73				
6900 [3256]	—	—	—	—	656	2.09	686	2.33	717	2.58	748	2.83	778	3.09	808	3.36	838	3.64	867	3.92	897	4.21	926	4.51	953	4.87	978	5.15	1003	5.43	1028	5.71	1051	5.99	1082	5.80				
7000 [3303]	—	—	—	—	660	2.15	690	2.40	721	2.64	751	2.90	781	3.16	811	3.44	841	3.71	870	4.00	899	4.29	928	4.59	954	4.95	980	5.23	1005	5.52	1029	5.80	1053	6.08	1083	5.88				
7100 [3350]	—	—	—	—	663	1.99	663	2.22	694	2.46	724	2.71	754	2.97	784	3.24	814	3.51	843	3.79	873	4.08	902	4.38	930	4.73	956	5.02	981	5.32	1006	5.60	1030	5.89	1054	6.18	1084	5.96		
7200 [3398]	—	—	—	—	637	2.05	667	2.29	698	2.53	728	2.79	758	3.05	788	3.31	817	3.59	846	3.87	875	4.16	904	4.46	932	4.81	958	5.11	983	5.40	1008	5.70	1032	5.99	1055	6.28	1085	6.04		
7300 [3445]	—	—	—	—	641	2.12	671	2.36	701	2.61	731	2.86	761	3.12	791	3.39	820	3.67	849	3.95	878	4.25	907	4.55	934	4.89	960	5.19	985	5.49	1009	5.79	1033	6.09	1056	6.38	1087	6.12		
7400 [3492]	—	—	—	—	645	2.19	675	2.43	705	2.68	735	2.94	765	3.20	794	3.47	823	3.75	852	4.04	881	4.33	910	4.63	936	4.98	962	5.29	986	5.59	1011	5.89	1035	6.19	1058	6.49	1088	6.21		
7500 [3539]	—	—	—	—	649	2.26	679	2.51	709	2.76	739	3.02	768	3.28	797	3.55	826	3.84	855	4.12	884	4.42	912	4.72	938	5.07	963	5.38	988	5.69	1012	6.00	1036	6.30	1059	6.61	1089	6.30		
7600 [3586]	—	—	—	—	653	2.34	683	2.58	713	2.83	742	3.10	771	3.36	801	3.64	829	3.92	858	4.21	886	4.51	915	4.81	940	5.17	965	5.48	990	5.80	1014	6.11	1038	6.42	1061	6.73	1091	6.39		
7700 [3633]	—	—	—	—	657	2.41	687	2.66	717	2.91	746	3.18	775	3.45	804	3.72	832	4.01	861	4.30	889	4.60	917	4.91	942	5.27	967	5.59	992	5.91	1016	6.22	1039	6.54	1062	6.85	1092	6.48		
7800 [3681]	—	—	—	—	632	2.25	662	2.49	691	2.74	720	3.00	749	3.26	778	3.53	807	3.81	836	4.10	864	4.39	892	4.69	920	5.00	945	5.37	969	5.70	994	6.02	1018	6.34	1041	6.66	1064	6.98	1094	6.58
7900 [3728]	—	—	—	—	636	2.33	666	2.57	695	2.82	724	3.08	753	3.35	782	3.62	810	3.90	839	4.19	867	4.49	895	4.79	922	5.10	947	5.48	972	5.81	996	6.14	1020	6.46	1043	6.79	1070	6.40	1095	6.68
8000 [3775]	—	—	—	—	641	2.41	670	2.65	699	2.90	728	3.17	757	3.43	785	3.71	814	3.99	842	4.28	870	4.58	898	4.89	925	5.20	949	5.59	974	5.93	998	6.26	1022	6.59	1045	6.92	1072	6.50	1097	6.78
8100 [3822]	—	—	—	—	645	2.49	674	2.74	703	2.99	732	3.25	760	3.52	789	3.80	817	4.09	845	4.38	873	4.68	900	4.99	928	5.30	951	5.71	976	6.05	1000	6.38	1023	6.72	1046	7.05	1074	6.60	1099	6.88
8200 [3869]	—	—	—	—	649	2.57	678	2.82	707	3.08	736	3.34	764	3.62	792	3.89	820	4.18	848	4.48	876	4.78	903	5.09	929	5.48	954	5.83	978	6.17	1002	6.51	1026	6.85	1048	7.19	1076	6.70	1100	6.99
8300 [3917]	—	—	—	—	654	2.66	682	2.91	711	3.17	739	3.43	768	3.71	796	3.99	824	4.28	851	4.58	879	4.88	906	5.19	931	5.60	956	5.95	981	6.30	1004	6.65	1028	6.99	1050	7.34	1077	6.81	1102	7.10
8400 [3964]	—	—	—	—	658	2.74	687	3.00	715	3.26	743	3.53	771	3.80	799	4.09	827	4.38	854	4.68	882	4.98	909	5.30	934	5.73	959	6.08	983	6.44	1007	6.79	1030	7.14	1052	7.48	1079	6.92	1104	7.21
8500 [4011]	—	—	634	2.59	662	2.83	691	3.09	719	3.35	747	3.62	775	3.90	803	4.19	830	4.48	858	4.78	885	5.09	912	5.40	937	5.86	961	6.22	985	6.58	1009	6.93	1032	7.29	1054	7.64	1081	7.03	1106	7.33
8600 [4058]	—	—	638	2.67	667	2.93	695	3.18	723	3.45	751	3.72	779	4.00	806	4.29	834	4.58	861	4.89	888	5.20	914	5.51	939	5.99	964	6.36	988	6.72	1011	7.08	1034	7.44	1056	7.79	1083	7.14	1108	7.44
8700 [4105]	—	—	643	2.77	671	3.02	699	3.28	727	3.55	755	3.82	782	4.10	810	4.39	837	4.69	864	4.99	891	5.31	917	5.62	942	6.13	967	6.50	990	6.87	1014	7.23	1036	7.59	1059	7.96	1085	7.26	1109	7.56
8800 [4153]	—	—	647	2.86	675	3.11	703	3.38	731	3.64	759	3.92	786	4.21	813	4.50	840	4.80	867	5.10	894	5.42	920	5.74	945	6.27	969	6.65	993	7.02	1016	7.39	1039	7.76	1061	8.12	1087	7.38	1111	7.69
8900 [4200]	—	—	652	2.96	680	3.21	708	3.48	735	3.75	763	4.02	790	4.31	817	4.60	844	4.91	870	5.21	897	5.53	923	5.85	948	6.42	972	6.80	996	7.17	1019	7.55	1041	7.92	1063	8.29	1089	7.50	1113	7.81
9000 [4247]	—	—	656	3.05	684	3.31	712	3.58	739	3.85	767	4.13	794	4.42	820	4.71	847	5.02	873	5.33	900	5.64	926	5.97	951	6.57	975	6.95	998	7.33	1021	7.71	1044	8.09	1067	7.32	1091	7.63	1115	7.94
9100 [4294]	633	2.90	661	3.15	689	3.41	716	3.68	743	3.95	770	4.24	797	4.53	824	4.82	850	5.13	877	5.44	903	5.76	929	6.09	954	6.73	978	7.11	1001	7.50	1024	7.88	1046	8.26	1069	7.45	1093	7.75	1117	8.07
9200 [4341]	638	3.00	665	3.25	693	3.52	720	3.78	747	4.06	774	4.35	801	4.64	827	4.94	854	5.24	880	5.56	906	5.88	932	6.49	957	6.89	981	7.28	1004	7.67	1026	8.06	1049	8.44	1072	7.57	1095	7.88	1119	8.20
9300 [4388]	643	3.10	670	3.36	697	3.62	725	3.89	751	4.17	778	4.46	805	4.75	831	5.05	857	5.36	883	5.68	909	6.00	936	6.65	960	7.05	983	7.45	1007	7.84	1029	8.23	1051	8.62	1074	7.70	1098	8.02	1122	8.34
9400 [4436]	647	3.20	675	3.46	702	3.73	729	4.00	756	4.28	782	4.57	808	4.87	835	5.17.1																								

AIRFLOW PERFORMANCE—20 TON [70.3 kW]—60 Hz—DOWNFLOW (CONTINUED)

Drive Package	F						G						H					
Motor H.P. [W]	3 [2237.1]						5 [3728.5]						7.5 [5592.7]					
Blower Sheave	BK90H						BK95H						BK100H					
Motor Sheave	1VL44						1VP56						1VP65					
Turns Open	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM	919	883	847	818	789	761	1035	998	961	932	903	874	1138	1107	1076	1044	1012	979

- NOTES:** 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[] Designates Metric Conversions

COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW]

CFM [L/s]	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800	9000	9200	9400	9600
	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]	[4058]	[4153]	[4247]	[4341]	[4436]	[4530]
Resistance—Inches of Water [kPa]																	
Wet Coil	0.08 [0.02]	0.09 [0.02]	0.09 [0.02]	0.09 [0.02]	0.09 [0.02]	0.1 [0.02]	0.1 [0.02]	0.1 [0.02]	0.1 [0.02]	0.11 [0.03]	0.11 [0.03]	0.11 [0.03]	0.11 [0.03]	0.12 [0.03]	0.12 [0.03]	0.12 [0.03]	0.12 [0.03]
Downflow Economizer RA Damper Open	0.25 [0.11]	0.26 [0.12]	0.26 [0.12]	0.27 [0.12]	0.28 [0.13]	0.29 [0.13]	0.3 [0.14]	0.31 [0.14]	0.32 [0.15]	0.33 [0.15]	0.33 [0.15]	0.34 [0.16]	0.35 [0.16]	0.36 [0.16]	0.37 [0.17]	0.38 [0.17]	0.39 [0.18]
Horizontal Economizer RA Damper Open	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.09 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.1 [0.04]	0.11 [0.05]	0.11 [0.05]	0.11 [0.05]	0.11 [0.05]
MERV 8 Filter	0.107 [0.05]	0.111 [0.05]	0.116 [0.05]	0.12 [0.05]	0.124 [0.05]	0.128 [0.06]	0.132 [0.06]	0.136 [0.06]	0.14 [0.06]	0.144 [0.06]	0.148 [0.06]	0.152 [0.07]	0.156 [0.07]	0.16 [0.07]	0.164 [0.07]	0.169 [0.07]	0.173 [0.08]
MERV 13 Filter	0.070 [0.03]	0.076 [0.03]	0.082 [0.03]	0.089 [0.04]	0.095 [0.04]	0.101 [0.04]	0.107 [0.05]	0.114 [0.05]	0.12 [0.05]	0.126 [0.05]	0.133 [0.06]	0.139 [0.06]	0.145 [0.06]	0.151 [0.07]	0.158 [0.07]	0.164 [0.07]	0.17 [0.08]

AIRFLOW CORRECTION FACTORS—20 TON [87.9 kW]

CFM [L/s]	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800	9000	9200	9400	9600
	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]	[4058]	[4153]	[4247]	[4341]	[4436]	[4530]
Resistance—Inches of Water [kPa]																	
Total kBtu/h	0.98	0.98	0.99	0.99	1.00	1.00	0.96	0.97	0.97	0.98	0.98	0.98	0.99	0.99	0.99	1.00	1.00
Sensible kBtu/h	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.23
Power kW	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03

NOTE: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—25 TON [87.9 kW]—60 Hz—SIDEFLOW

Air Flow CFM [L/s]	Model RACV8300		Voltage 208/230, 460, 575 — 3 phase 60 Hz																		
			External Static Pressure—Inches of Water [kPa]																		
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
8000 [3775]	—	—	848	4.26	868	4.50	888	4.74	908	4.98	927	5.21	946	5.44	964	5.67	983	5.89	1001	6.11	
8100 [3822]	—	—	—	856	4.42	876	4.66	896	4.90	915	5.14	934	5.37	953	5.60	971	5.83	989	6.06	1013	6.32
8200 [3869]	—	—	844	4.33	864	4.57	884	4.82	903	5.06	922	5.30	941	5.54	960	5.77	978	6.00	996	6.23	
8300 [3917]	—	—	852	4.49	872	4.74	891	4.98	911	5.23	930	5.47	948	5.70	967	5.94	985	6.17	1006	6.41	
8400 [3964]	—	—	860	4.65	880	4.90	899	5.15	918	5.39	937	5.64	955	5.87	974	6.11	991	6.34	1013	6.60	
8500 [4011]	849	4.57	869	4.82	888	5.07	907	5.32	926	5.57	945	5.81	963	6.05	981	6.29	998	6.52	1020	6.79	
8600 [4058]	858	4.74	877	4.99	896	5.25	915	5.50	934	5.74	952	5.99	970	6.23	988	6.47	1007	6.68	1027	6.98	
8700 [4105]	866	4.91	885	5.17	904	5.42	923	5.67	942	5.92	960	6.17	977	6.41	995	6.65	1015	6.89	1034	7.17	
8800 [4153]	875	5.09	894	5.35	913	5.60	931	5.86	949	6.11	967	6.35	985	6.60	1002	6.80	1022	7.09	1041	7.37	
8900 [4200]	884	5.27	902	5.53	921	5.79	939	6.04	957	6.29	975	6.54	992	6.79	1010	7.00	1029	7.29	1048	7.57	
9000 [4247]	892	5.46	911	5.72	929	5.98	947	6.23	965	6.48	983	6.73	1000	6.98	1017	7.21	1036	7.49	1055	7.77	
9100 [4294]	901	5.65	920	5.91	938	6.17	956	6.42	973	6.68	990	6.93	1005	7.12	1024	7.42	1043	7.70	1062	7.97	
9200 [4341]	910	5.84	928	6.10	946	6.36	964	6.62	981	6.88	998	7.13	1013	7.34	1032	7.63	1050	7.91	1069	8.18	
9300 [4388]	919	6.03	937	6.30	955	6.56	972	6.82	989	7.08	1002	7.25	1020	7.55	1039	7.84	1058	8.12	1076	8.39	
9400 [4436]	928	6.23	946	6.50	963	6.76	980	7.03	997	7.28	1009	7.47	1028	7.76	1047	8.05	1065	8.33	1083	8.61	
9500 [4483]	937	6.44	954	6.71	972	6.97	989	7.23	998	7.38	1017	7.69	1036	7.98	1054	8.27	1072	8.55	1090	8.82	
9600 [4530]	946	6.65	963	6.92	980	7.18	997	7.44	1007	7.61	1025	7.91	1043	8.21	1062	8.49	1080	8.77	1097	9.04	
9700 [4577]	955	6.86	972	7.13	989	7.40	996	7.52	1015	7.83	1033	8.14	1051	8.43	1069	8.72	1087	8.99	1104	9.26	
9800 [4624]	964	7.07	981	7.34	998	7.61	1004	7.75	1023	8.06	1041	8.36	1059	8.66	1077	8.94	1094	9.22	1112	9.49	
9900 [4672]	973	7.29	990	7.56	994	7.67	1013	7.99	1031	8.29	1049	8.59	1067	8.89	1084	9.17	1102	9.45	1119	9.72	
10000 [4719]	982	7.51	999	7.79	1003	7.90	1021	8.22	1039	8.53	1057	8.83	1074	9.12	1092	9.40	1109	9.68	1126	9.95	
10100 [4766]	992	7.74	993	7.82	1011	8.14	1029	8.46	1047	8.77	1065	9.06	1082	9.36	1100	9.64	1117	9.91	1133	10.18	
10200 [4813]	1001	7.97	1002	8.06	1020	8.39	1038	8.70	1055	9.01	1073	9.30	1090	9.59	1107	9.88	1124	10.15	1141	10.41	
10300 [4860]	992	7.98	1010	8.31	1028	8.63	1046	8.94	1064	9.25	1081	9.55	1098	9.84	1115	10.12	1131	10.39	1148	10.65	
10400 [4908]	1001	8.23	1019	8.56	1037	8.88	1055	9.19	1072	9.49	1089	9.79	1106	10.08	1123	10.36	1139	10.63	1156	11.04	
10500 [4955]	1010	8.48	1028	8.81	1046	9.13	1063	9.44	1080	9.74	1097	10.04	1114	10.33	1130	10.60	1147	10.88	1164	11.34	
10600 [5002]	1019	8.74	1037	9.06	1054	9.38	1071	9.69	1088	9.99	1105	10.29	1122	10.58	1138	10.85	1158	11.36	1173	11.64	
10700 [5049]	1028	8.99	1046	9.32	1063	9.64	1080	9.95	1097	10.25	1113	10.54	1130	10.83	1146	11.10	1166	11.67	1181	11.95	
10800 [5096]	1038	9.25	1055	9.58	1072	9.90	1089	10.21	1105	10.51	1121	10.80	1138	11.08	1161	11.71	1175	11.99	1188	12.27	
10900 [5143]	1047	9.52	1064	9.84	1080	10.16	1097	10.47	1113	10.77	1131	11.06	1146	11.34	1169	12.03	1184	12.31	1199	12.60	
11000 [5191]	1056	9.78	1073	10.11	1089	10.42	1106	10.73	1122	11.03	1138	11.32	1165	12.10	1178	12.36	1192	12.64	1206	12.93	
11100 [5238]	1065	10.05	1082	10.37	1098	10.69	1114	11.00	1130	11.29	1146	11.58	1174	12.43	1187	12.69	1201	12.97	1215	13.26	
11200 [5285]	1074	10.32	1091	10.65	1107	10.96	1123	11.26	1139	11.56	1170	12.52	1183	12.77	1196	13.03	1210	13.31	1223	13.61	
11300 [5332]	1083	10.60	1100	10.92	1116	11.23	1132	11.54	1147	11.83	1180	12.86	1193	13.11	1206	13.38	1219	13.66	1232	13.96	
11400 [5379]	1093	10.88	1109	11.19	1125	11.51	1140	11.81	1177	12.97	1189	13.21	1202	13.46	1215	13.73	1228	14.02	1240	14.31	
11500 [5427]	1102	11.16	1118	11.47	1133	11.78	1149	12.09	1187	13.32	1199	13.56	1211	13.82	1224	14.09	1236	14.38	1249	14.67	
11600 [5474]	1111	11.44	1127	11.76	1142	12.07	1185	13.45	1197	13.68	1209	13.93	1221	14.19	1233	14.46	1245	14.74	—	—	
11700 [5521]	1120	11.72	1136	12.04	1183	13.59	1195	13.81	1207	14.05	1219	14.30	1230	14.56	1242	14.83	—	—	—	—	
11800 [5568]	1130	12.01	1145	12.33	1194	14.03	1213	13.96	1225	14.19	1237	14.42	1248	14.67	1240	14.93	1252	15.21	—	—	
11900 [5615]	1139	12.30	1194	14.14	1205	14.34	1216	14.56	1227	14.80	1238	15.05	1250	15.32	—	—	—	—	—	—	
12000 [5663]	1148	12.60	1205	14.51	1215	14.72	1226	14.95	1237	15.19	1248	15.44	—	—	—	—	—	—	—	—	

NOTE: E-Drive left of bold line G-Drive between the bold lines H-Drive right of both bold lines

AIRFLOW PERFORMANCE—25 TON [87.9 kW]—60 Hz—SIDEFLOW (CONTINUED)

Drive Package			F						G						H					
Motor H.P. [W]			7.5 [5592.7]						10 [7457.0]						10 [7457.0]					
Blower Sheave			BK110						BK105						BK95					
Motor Sheave			1VP-65						1VP-71						1VP71					
Turns Open			1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM			999	965	935	905	875	844	1143	1109	1079	1047	1015	985	1251	1219	1183	1152	1123	1087

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—25 TON [87.9 kW]—60 Hz—DOWNFLOW

Air Flow CFM [L/s]	Model RACGYB300		Voltage 208/230, 460, 575 — 3 phase 60 Hz		External Static Pressure—Inches of Water [kPa]																																			
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																				
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP																			
8000 [375]	—	—	—	—	—	734	3.59	761	3.72	789	3.87	816	4.03	843	4.20	869	4.40	896	4.60	922	4.82	948	5.06	974	5.31	1000	5.58	1025	5.83	1048	6.18	1072	6.44	1097	6.71					
8100 [382]	—	—	—	—	—	737	3.63	765	3.77	792	3.92	819	4.08	846	4.26	872	4.46	898	4.67	924	4.90	950	5.14	976	5.39	1002	5.67	1025	6.02	1049	6.27	1076	6.54	1099	6.81					
8200 [386]	—	—	—	—	—	741	3.68	768	3.82	795	3.97	822	4.14	848	4.33	875	4.53	901	4.74	927	4.97	953	5.22	978	5.48	1003	5.76	1027	6.11	1051	6.37	1074	6.64	1100	6.91					
8300 [391]	—	—	—	—	—	745	3.73	772	3.87	798	4.03	825	4.20	851	4.39	877	4.60	903	4.82	929	5.05	955	5.30	980	5.57	1005	5.95	1029	6.21	1053	6.47	1077	6.74	1102	7.02					
8400 [396]	—	—	—	—	721	3.65	748	3.78	775	3.93	802	4.09	828	4.27	854	4.46	880	4.67	906	4.89	932	5.13	957	5.39	982	5.66	1007	6.05	1031	6.31	1055	6.57	1079	6.84	1104	7.12				
8500 [401]	—	—	—	—	725	3.70	752	3.83	779	3.99	805	4.15	831	4.34	857	4.53	883	4.75	909	4.98	934	5.22	959	5.48	984	5.75	1009	6.15	1033	6.41	1057	6.67	1081	6.95	1106	7.23				
8600 [405]	—	—	—	—	729	3.75	756	3.89	782	4.05	809	4.22	835	4.41	860	4.61	886	4.83	911	5.06	937	5.31	962	5.57	987	5.85	1011	6.25	1035	6.51	1059	6.78	1083	7.06	1108	7.34				
8700 [410]	—	—	—	—	733	3.81	760	3.96	786	4.12	812	4.29	838	4.48	864	4.69	889	4.91	914	5.15	939	5.40	964	5.67	989	5.95	1014	6.35	1037	6.62	1061	6.89	1085	7.17	1109	7.46				
8800 [415]	—	—	—	—	737	3.87	764	4.02	790	4.19	816	4.37	841	4.56	867	4.77	892	5.00	917	5.24	942	5.50	967	5.77	991	6.05	1016	6.46	1039	6.72	1063	7.00	1087	7.28	1111	7.58				
8900 [420]	—	—	—	—	741	3.94	768	4.09	793	4.26	819	4.44	845	4.64	870	4.86	895	5.09	920	5.33	945	5.60	969	5.87	994	6.16	1018	6.56	1041	6.83	1065	7.11	1089	7.40	1113	7.70				
9000 [424]	—	—	—	—	746	4.00	772	4.16	797	4.34	823	4.52	848	4.73	873	4.95	898	5.18	923	5.43	948	5.70	972	5.98	996	6.27	1020	6.67	1044	6.95	1067	7.23	1091	7.52	1115	7.82				
9100 [429]	—	—	—	—	750	4.07	776	4.24	801	4.42	827	4.61	852	4.82	877	5.04	901	5.28	926	5.53	950	5.80	975	6.09	999	6.39	1023	6.79	1046	7.06	1069	7.35	1093	7.64	1117	7.94				
9200 [434]	—	—	—	—	754	4.15	780	4.32	805	4.50	830	4.70	855	4.91	880	5.14	905	5.38	929	5.64	953	5.91	977	6.20	1001	6.50	1025	6.90	1048	7.18	1072	7.47	1095	7.76	1119	8.07				
9300 [438]	—	—	—	—	758	4.23	784	4.40	809	4.59	834	4.79	859	5.00	884	5.24	908	5.48	932	5.75	956	6.02	980	6.32	1004	6.62	1027	7.02	1051	7.30	1074	7.59	1098	7.89	1122	8.20				
9400 [443]	—	—	—	—	763	4.31	788	4.48	813	4.67	838	4.88	863	5.10	887	5.34	911	5.59	935	5.86	959	6.14	983	6.44	1007	6.86	1030	7.14	1053	7.42	1076	7.72	1100	8.02	1124	8.33				
9500 [448]	—	—	—	—	767	4.39	792	4.57	817	4.77	842	4.98	866	5.20	891	5.44	915	5.70	939	5.97	962	6.26	986	6.56	1010	6.98	1032	7.26	1055	7.55	1079	7.85	1102	8.15	1126	8.46				
9600 [453]	—	—	—	—	772	4.46	797	4.66	821	4.86	846	5.08	870	5.31	894	5.55	919	5.81	942	6.09	965	6.38	989	6.69	1012	7.10	1035	7.38	1058	7.68	1081	7.98	1104	8.28	1128	8.60				
9700 [457]	—	—	—	—	776	4.57	801	4.76	826	4.96	850	5.18	874	5.42	898	5.67	922	5.93	945	6.21	969	6.51	992	6.82	1015	7.22	1038	7.51	1060	7.81	1083	8.11	1107	8.42	1130	8.74				
9800 [462]	—	—	—	—	781	4.67	806	4.86	830	5.07	854	5.29	878	5.53	902	5.78	925	6.05	949	6.33	972	6.63	995	6.95	1018	7.35	1040	7.64	1063	7.94	1086	8.24	1109	8.56	1133	8.88				
9900 [467]	—	—	—	—	786	4.76	810	4.96	834	5.17	858	5.40	882	5.64	906	5.90	929	6.17	952	6.46	975	6.77	998	7.08	1020	7.48	1043	7.77	1065	8.07	1088	8.38	1112	8.70	1135	9.02				
10000 [471]	—	—	—	—	790	4.86	815	5.07	839	5.28	862	5.51	886	5.76	909	6.02	933	6.30	956	6.59	978	6.90	1001	7.22	1023	7.61	1046	7.91	1068	8.21	1091	8.52	1114	8.84	1138	9.17				
10100 [476]	—	722	4.44	747	4.60	771	4.78	795	4.97	819	5.17	843	5.40	867	5.63	890	5.88	913	6.15	936	6.43	959	6.73	982	7.04	1004	7.45	1026	7.74	1048	8.04	1071	8.35	1094	8.66	1117	8.99	1132	9.49	
10200 [481]	—	727	4.54	752	4.70	776	4.88	800	5.08	824	5.29	848	5.51	871	5.75	894	6.01	917	6.28	940	6.56	963	6.87	985	7.18	1007	7.58	1029	7.88	1051	8.18	1073	8.49	1096	8.81	1119	9.13	1135	9.66	
10300 [486]	—	733	4.63	757	4.80	781	4.99	805	5.19	829	5.40	852	5.63	875	5.88	898	6.14	921	6.41	944	6.70	966	7.01	989	7.33	1010	7.72	1032	8.02	1054	8.32	1076	8.64	1099	8.96	1122	9.28	1139	9.83	
10400 [490]	—	738	4.74	762	4.91	786	5.10	810	5.30	833	5.52	857	5.75	880	6.00	903	6.27	925	6.55	948	6.84	970	7.15	992	7.48	1013	7.86	1035	8.16	1057	8.47	1079	8.78	1102	9.11	1125	9.44	1142	10.00	
10500 [495]	—	744	4.84	768	5.02	791	5.21	815	5.42	838	5.64	861	5.88	884	6.13	907	6.40	930	6.69	952	6.98	974	7.30	996	7.63	1016	8.00	1038	8.30	1060	8.61	1082	8.93	1104	9.26	1127	9.59	1146	10.18	
10600 [500]	725	4.78	749	4.95	773	5.13	797	5.33	820	5.54	843	5.77	866	6.01	889	6.27	911	6.54	934	6.83	956	7.13	978	7.45	1000	7.78	1019	8.14	1041	8.45	1063	8.76	1085	9.08	1107	9.41	1130	9.75	1150	10.36
10700 [504]	731	4.89	755	5.06	779	5.25	802	5.45	825	5.66	848	5.90	871	6.14	893	6.40	916	6.68	938	6.97	960	7.28	982	7.60	1003	7.94	1022	8.29	1044	8.60	1066	8.91	1088	9.24	1110	9.57	1133	9.91	1154	10.55
10800 [509]	737	5.00	761	5.17	784	5.37	807	5.57	830	5.79	853	6.03	876	6.28	898	6.54	920	6.83	942	7.12	964	7.43	986	7.76	1004	8.13	1025	8.43	1047	8.75	1069	9.07	1091	9.39	1113	9.73	1136	10.07	1158	10.75
10900 [514]	743	5.11	766	5.29	790	5.49	813	5.70	835	5.92	858	6.16	881	6.42	903	6.69	925	6.97	947	7.27	968	7.59	990	7.92	1007	8.28	1029	8.58	1050	8.90	1072	9.22	1094	9.55	1116	9.89	1135	10.53	1162	10.94
11000 [519]	749	5.23	772	5.41	795	5.61	818	5.83	841	6.06	863	6.30	885	6.56	908	6.84	929	7.13	951	7.43	972	7.75	994	8.09	1011	8.43	1032	8.74	1053	9.06	1075	9.38	1097	9.71	1119	10.05	1138	10.72	1167	11.15
11100 [523]	755	5.35	778	5.54	801	5.74	824	5.96	846	6.19	868	6.44	890	6.71	912	6.99	934	7.28	955	7.59	977	7.91	998	8.25	1014	8.58	1035	8.89	1056	9.21	1078	9.54	1100	9.88	1122	10.22	1142	10.92	1171	11.35
11200 [528]	761	5.47	784	5.67	807	5.87	829	6.10	852	6.33	874	6.59	895	6.86	917	7.14	939	7.44	960	7.75	981	8.08	1002	8.42	1018	8.73	1038	9.05	1060	9.37	1081	9.70	1103	10.04	1125	10.39	1146	11.12	1176	11.57
11300 [533]	767	5.60	790	5.80	813	6.01	835	6.24	857	6.48	879	6.74	901	7.01	922	7.30	943	7.60	965	7.92	985	8.25	1000	8.58	1021	8.89	1042	9.21	1063	9.54	1084	9.87	1106	10.21	1128	10.56	—	—	—	—
11400 [537]	774	5.73	796	5.93	818	6.15	841	6.38	862	6.63	884	6.89	906	7.16	927	7.46	948	7.76	969	8.09	990	8.42	1004	8.73	1024	9.05	1045	9.37	1066	9.70	1088	10.04	1109	10.38	1131	10.73	—	—	—	—
11500 [542]	780	5.86	802	6.07	824	6.29	846	6.53	868	6.78	890	7.04	911	7.32	932	7.62	953	7.93</																						

NOTE: F-Drive left of bold line, G-Drive between the bold lines, H-Drive right of both bold lines.

AIRFLOW PERFORMANCE—25 TON [87.9 kW]—60 Hz—DOWNFLOW (CONTINUED)

Drive Package		F						G						H					
Motor H.P. [W]		7.5 [5592.7]						10 [7457.0]						10 [7457.0]					
Blower Sheave		BK110						BK105						BK95					
Motor Sheave		1VP-65						1VP-71						1VP71					
Turns Open		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
RPM		995	962	929	892	855	818	1138	2214	1076	1044	1012	979	1227	1197	1167	1134	1101	1068

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
5. An RPM meter must be used to receive an accurate airflow reading.

[] Designates Metric Conversions

COMPONENT AIRFLOW RESISTANCE—25 TON [87.9 kW]

CFM [L/s]	8000 [3775]	8400 [3964]	8800 [4153]	9200 [4341]	9600 [4530]	10000 [4719]	10400 [4908]	10800 [5096]	11200 [5285]	11600 [5474]	12000 [5663]
	Resistance—Inches of Water										
Wet Coil	0.10 [0.03]	0.11 [0.03]	0.11 [0.03]	0.12 [0.03]	0.12 [0.03]	0.13 [0.03]	0.14 [0.03]	0.14 [0.03]	0.15 [0.04]	0.15 [0.04]	0.16 [0.04]
Downflow Economizer RA Damper Open	0.32 [0.15]	0.33 [0.15]	0.35 [0.16]	0.37 [0.17]	0.39 [0.18]	0.40 [0.18]	0.42 [0.19]	0.44 [0.20]	0.46 [0.21]	0.47 [0.22]	0.49 [0.23]
Horizontal Economizer RA Damper Open	0.1 [0.04]	0.1 [0.05]	0.1 [0.05]	0.11 [0.05]	0.11 [0.05]	0.11 [0.05]	0.12 [0.05]	0.12 [0.05]	0.12 [0.05]	0.13 [0.06]	0.13 [0.06]
MERV 8 Filter	0.14 [0.06]	0.148 [0.06]	0.156 [0.07]	0.164 [0.07]	0.173 [0.08]	0.181 [0.08]	0.189 [0.08]	0.197 [0.09]	0.205 [0.09]	0.213 [0.10]	0.221 [0.10]
MERV 13 Filter	0.12 [0.05]	0.133 [0.06]	0.145 [0.06]	0.158 [0.07]	0.17 [0.08]	0.183 [0.08]	0.196 [0.09]	0.208 [0.09]	0.221 [0.10]	0.233 [0.10]	0.246 [0.11]

AIRFLOW CORRECTION FACTORS—25 TON [87.9 kW]

CFM [L/s]	8000 [3775]	8400 [3964]	8800 [4153]	9200 [4341]	9600 [4530]	10000 [4719]	10400 [4908]	10800 [5096]	11200 [5285]	11600 [5474]	12000 [5663]
	Resistance—Inches of Water										
Total kBtu/h	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
Sensible kBtu/h	0.97	1.00	1.03	1.06	1.09	1.12	1.15	1.18	1.21	1.24	1.27
Power kW	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02	1.03	1.03

NOTE: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

ELECTRICAL DATA – RACGYB SERIES

		180ACF	180ACG	180ACH	180ADF	180ADG 180ADH	180AYF	180AYG 180AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	73/73	80/80	81/81	36	38	28	29
	Minimum Circuit Ampacity with Power Exhaust	83/83	90/90	91/91	41	43	31	32
	Minimum Overcurrent Protection Device Size	80/80	90/90	90/90	40	45	30	35
	Minimum Overcurrent Protection Device	90/90	90/90	90/90	45	50	35	35
	Maximum Overcurrent Protection Device Size	90/90	110/110	110/110	45	45	35	35
	Maximum Overcurrent Protection Device Size with Power Exhaust	100/100	110/110	110/110	50	50	40	40
Compressor Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	24.4	24.4	24.4	11.9	11.9	9.4	9.4
	Amps (LRA), Comp. 1	200.0	200.0	200.0	103.0	103.0	78.0	78.0
	Amps (RLA), Comp. 2	24.4	24.4	24.4	11.9	11.9	9.4	9.4
	Amps (LRA), Comp. 2	200.0	200.0	200.0	103.0	103.0	78.0	78.0
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	4.2	2.3	2.3	1.2	1.2
	Amps (LRA, each)	10.1	10.1	10.1	4.9	4.9	3.4	3.4
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	3	5	5	3	5	3	5
	Amps (FLA, each)	9.2	13.6	13.6	4.6	6.3	3.5	5.1
	Amps (LRA, each)	74.5	95.0	95.0	38.1	47.5	30.0	38.0

ELECTRICAL DATA – RACGYB SERIES										
		210ACF	210ACG	210ACH	210ADF	210ADG	210ADH	210AYF	210AYG	210AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	518-633	518-633	518-633
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	85/85	90/90	97/97	38	40	43	29	30	33
	Minimum Circuit Ampacity with Power Exhaust	95/95	100/100	107/107	43	44	48	32	33	36
	Minimum Overcurrent Protection Device Size	100/100	100/100	110/110	45	45	50	35	35	35
	Minimum Overcurrent Protection Device	110/110	110/110	125/125	50	50	60	35	35	40
	Maximum Overcurrent Protection Device Size	110/110	110/110	125/125	50	50	60	35	35	40
	Maximum Overcurrent Protection Device Size with Power Exhaust	110/110	125/125	125/125	50	50	60	40	40	40
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	28.7	28.7	28.7	12.4	12.4	12.4	9.0	9.0	9.0
	Amps (LRA), Comp. 1	207.5	207.5	207.5	100.2	100.2	100.2	78.0	78.0	78.0
	Amps (RLA), Comp. 2	28.7	28.7	28.7	12.4	12.4	12.4	9.0	9.0	9.0
	Amps (LRA), Comp. 2	207.5	207.5	207.5	100.2	100.2	100.2	78.0	78.0	78.0
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (FLA, each)	5.5	5.5	5.5	2.7	2.7	2.7	2.2	2.2	2.2
	Amps (LRA, each)	28.6	28.6	28.6	14.3	14.3	14.3	11.0	11.0	11.0
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	3	5	7.5	3	5	7.5	3	5	7.5
	Amps (FLA, each)	9.2	13.6	21.0	4.6	6.3	9.6	3.5	5.1	7.7
	Amps (LRA, each)	74.5	95.0	127.0	38.1	47.5	63.5	30.0	38.0	50.8

ELECTRICAL DATA – RACGYB SERIES							
		240ACF 240ACG	240ACH	240ADF 240ADG	240ADH	240AYF 240AYG	240AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	89/89	97/97	43	46	34	37
	Minimum Circuit Ampacity with Power Exhaust	99/99	107/107	47	50	37	40
	Minimum Overcurrent Protection Device Size	100/100	110/110	50	50	40	40
	Minimum Overcurrent Protection Device	110/110	125/125	50	60	40	40
	Maximum Overcurrent Protection Device Size	110/110	110/110	50	50	40	45
	Maximum Overcurrent Protection Device Size with Power Exhaust	125/125	125/125	50	60	45	45
Compressor Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	28.5	28.5	13.5	13.5	10.7	10.7
	Amps (LRA), Comp. 1	255.0	255.0	123.0	123.0	93.7	93.7
	Amps (RLA), Comp. 2	28.5	28.5	13.5	13.5	10.7	10.7
	Amps (LRA), Comp. 2	255.0	255.0	123.0	123.0	93.7	93.7
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (FLA, each)	5.5	5.5	2.7	2.7	2.2	2.2
	Amps (LRA, each)	28.6	28.6	14.3	14.3	11.0	11.0
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	5	7.5	5	7.5	5	7.5
	Amps (FLA, each)	13.6	21.0	6.3	9.6	5.1	7.7
	Amps (LRA, each)	95.0	127.0	47.5	63.5	38.0	50.8

ELECTRICAL DATA – RACGYB SERIES								
		300ACF	300ACG	300ACH	300ADF	300ADG 300ADH	300AYF	300AYG 300AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	127/127	132/132	133/133	59	62	43	46
	Minimum Circuit Ampacity with Power Exhaust	137/137	142/142	143/143	64	66	46	49
	Minimum Overcurrent Protection Device Size	150/150	150/150	150/150	70	70	50	50
	Minimum Overcurrent Protection Device	150/150	175/175	175/175	70	80	50	60
	Maximum Overcurrent Protection Device Size	150/150	150/150	150/150	70	80	50	50
	Maximum Overcurrent Protection Device Size with Power Exhaust	175/175	175/175	175/175	80	80	50	60
Compressor Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Amps (RLA), Comp. 1	40.8	40.8	40.8	19.4	19.4	13.7	13.7
	Amps (LRA), Comp. 1	270.0	270.0	270.0	147.0	147.0	109.0	109.0
	Amps (RLA), Comp. 2	40.8	40.8	40.8	19.4	19.4	13.7	13.7
	Amps (LRA), Comp. 2	270.0	270.0	270.0	147.0	147.0	109.0	109.0
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (FLA, each)	5.5	5.5	5.5	2.7	2.7	2.2	2.2
	Amps (LRA, each)	28.6	28.6	28.6	14.3	14.3	11.0	11.0
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	7.5	10	10	7.5	10	7.5	10
	Amps (FLA, each)	21.0	27.0	27.0	9.6	12.5	7.7	10.0
	Amps (LRA, each)	127.0	152.0	152.0	63.5	76.0	50.8	60.8

ELECTRIC HEATER KITS – RACGYB180

208/230V THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION												
Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit						
Unit Model Number RACGYB	Heater Kit		Air Conditioner			Heater Kit		Air Conditioner				
Base Electric Unit Model Number	Model No. RXJJ-	Rated Heater kW @ 208/230	Heater Kit FLA	Unit Min. Ampacity	Unit Min. Ckt. Ampacity with Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
180ACF	NONE*	—/—	—/—	73/73	83/83	90/90	100/100	—	—	83/83	90/90	100/100
	G18KWC	13.5/18.0	37.5/43.3	73/73	83/83	90/90	100/100	47/55	50/60	83/83	90/90	100/100
	G36KWC	27.0/36.0	74.9/86.6	106/120	118/133	110/125	125/150	94/109	100/110	83/83	90/90	100/100
180ACG	G54KWC	40.5/54.0	112.4/129.9	152/174	165/187	175/175	175/200	141/163	150/175	83/83	90/90	100/100
	NONE*	—/—	—/—	80/80	90/90	100/100	110/110	—	—	90/90	100/100	110/110
	G18KWC	13.5/18.0	37.5/43.3	80/80	90/90	100/100	110/110	47/55	50/60	90/90	100/100	110/110
180ACH	G36KWC	27.0/36.0	74.9/86.6	114/129	127/141	125/150	150/150	94/109	100/110	90/90	100/100	110/110
	G54KWC	40.5/54.0	112.4/129.9	161/183	173/195	175/200	175/200	141/163	150/175	90/90	100/100	110/110
	NONE*	—/—	—/—	81/81	91/91	100/100	110/110	—	—	91/91	100/100	110/110
	G18KWC	13.5/18.0	37.5/43.3	81/81	91/91	100/100	110/110	47/55	50/60	91/91	100/100	110/110
	G36KWC	27.0/36.0	74.9/86.6	115/130	128/142	125/150	150/150	94/109	100/110	91/91	100/100	110/110
	G54KWC	40.5/54.0	112.4/129.9	162/184	175/196	175/200	175/200	141/163	150/175	91/91	100/100	110/110

460V THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION												
Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit						
Unit Model Number RACGYB	Heater Kit		Air Conditioner			Heater Kit		Air Conditioner				
Base Electric Unit Model Number	Model No. RXJJ-	Rated Heater kW @ 460	Heater Kit FLA	Unit Min. Ampacity	Unit Min. Ckt. Ampacity with Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
180ADF	NONE*	—	—	36	41	45	50	—	—	41	45	50
	G18KWD	18.0	21.7	36	41	45	50	28	30	41	45	50
	G36KWD	36.0	43.3	60	66	60	70	55	60	41	45	50
180ADG	G54KWD	54.0	65.0	87	93	90	100	82	90	41	45	50
	NONE*	—	—	38	43	45	50	—	—	43	45	50
	G18KWD	18.0	21.7	38	43	45	50	28	30	43	45	50
180ADH	G36KWD	36.0	43.3	62	68	70	70	55	60	43	45	50
	G54KWD	54.0	65.0	90	95	90	100	82	90	43	45	50
	NONE*	—	—	38	43	45	50	—	—	43	45	50
	G18KWD	18.0	21.7	38	43	45	50	28	30	43	45	50
	G36KWD	36.0	43.3	62	68	70	70	55	60	43	45	50
	G54KWD	54.0	65.0	90	95	90	100	82	90	43	45	50

ELECTRIC HEATER KITS – RACGYB180 (CONTINUED)

575V THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION											
Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACGYB	Heater Kit			Air Conditioner			Heater Kit		Air Conditioner		
Base Electric Unit Model Number	Model No. RXJJ-	Rated Heater kW @ 575	Heater Kit FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity with Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
180AYF	NONE*	—	—	28	31	35	—	—	28	31	35
	G18KWY	18.0	17.3	28	31	35	22	25	28	31	35
	G36KWY	36.0	34.6	48	52	50	44	45	28	31	35
	G54KWY	54.0	52.0	70	74	70	65	70	28	31	35
180AYG	NONE*	—	—	29	32	35	—	—	29	32	40
	G18KWY	18.0	17.3	29	32	35	22	25	29	32	40
	G36KWY	36.0	34.6	50	54	50	44	45	29	32	40
	G54KWY	54.0	52.0	72	76	80	65	70	29	32	40
180AYH	NONE*	—	—	29	32	35	—	—	29	32	40
	G18KWY	18.0	17.3	29	32	35	22	25	29	32	40
	G36KWY	36.0	34.6	50	54	50	44	45	29	32	40
	G54KWY	54.0	52.0	72	76	80	65	70	29	32	40