



The new degree of comfort.™



Packaged Air Conditioner
RACG Series

Commercial 15-25 Ton Renaissance™ Line Packaged Air Conditioner



RACG Commercial Renaissance™ Series

Nominal Sizes: 15, 17.5, 20 & 25 Tons

Meets IEER requirements for DOE 2023

Standard VFD & Optional HumidiDry™ Technology

ASHRAE 90.1-2019 Compliant Models



INTEGRATED AIR & WATER

FORM NO. S11-993

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RACG STANDARD FEATURES INCLUDE:

- Factory charged with R-410A HFC refrigerant
- Wired and run tested
- Scroll compressors with internal line break overload and high pressure protection
- Unit has a two-stage compressor
- 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
- MicroChannel evaporator and condenser coil
- PlusOne® ServiceSmart package includes:
 - Qwik-Change Flex-Fit Rack™
 - Qwik-Slide Blower Assembly™
 - Qwik-Clean Drain Pan™
- Overflow condensate sensor
- PlusOne® Diagnostics with Dual 7-Segment LED Display to meet code compliance
- One-piece top cover and base pan with drawn supply and return opening
- ¼ turn fasteners on filter access door
- Color-coded and labeled wiring
- External lockable gauge ports
- 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
- Variable Frequency Drive (VFD) blower is standard
- Flexible footprint to support a variety of roof curbs
- MERV 8 & MERV 13 filters are available as an accessory



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?
Economizer w/Single Enthalpy (Downflow/Vertical)	RXRD-01MGDAM3	Yes
Economizer w/Single Enthalpy (Horizontal)	RXRD-01MGHAM3	No
Economizer w/Single Enthalpy (Downflow/Vertical) DDC	RXRD-01MGDBM3	Yes
Economizer w/Single Enthalpy (Horizontal) DDC	RXRD-01MGHBM3	No
Dual Enthalpy Kit	RXXR-BV01	No
Dual Enthalpy Kit DDC	RXXR-BV02	No
Power Exhaust (230V)	RXXR-CGF01C	No
Power Exhaust (460V)	RXXR-CGF01D	No
Power Exhaust (575V)	RXXR-CGF01Y	No
Manual Fresh Air Damper	RXRF-AGA1	No
Motorized Fresh Air Damper	RXRF-AGB1	No
Motorized Fresh Air Damper DDC	RXRF-AGC1	No
Roofcurb, 14"	RXXR-DGC14	No
Roofcurb, 18"	RXXR-DGC18	No
Roofcurb, 24"	RXXR-DGC24	No
Roofcurb—Restraint Clips	RXXR-DGCRC	No
Roofcurb Adapter	RXXR-DCGCAE	No
Roofcurb Adapter Z-Bracket	RXXR-DGCAZ	No
Concentric Flush Mount Diffuser (15 & 17.5 Ton)	RXRN-AEF2042	No
Concentric Flush Mount Diffuser (20 Ton)	RXRN-AEF2348	No
Concentric Flush Mount Diffuser (25 Ton)	RXRN-AEF2852	No
Concentric Step Down Diffuser (15 & 17.5 Ton)	RXRN-AED2042	No
Concentric Step Down Diffuser (20 Ton)	RXRN-AED2348	No
Concentric Step Down Diffuser (25 Ton)	RXRN-AED2852	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
Outdoor Coil Louver Kit	RXXR-LKG01	No
Non-Powered Convenience Outlet	RXXR-BN01	No

Accessory		Model Number	Factory Installation Available?
Unfused Service Disconnect		RXXR-BPG1	No
Comfort Alert (3 phase) Non-DDC		RXXR-AZG1	No
Comfort Alert (3 Phase) DDC		RXXR-AZG2	No
Carbon Dioxide Sensor (Wall Mount)		RXXR-AR02	No
BACnet Communicator Card		RXXR-AY01	No
LonWorks Communication Card		RXXR-AY02	No
Room Humidity Sensor		RHC-ZNS4	No
Room Temperature and Humidity Sensor		RHC-ZNS5	No
Low-Ambient Control Kit		RXRZ-A05	Yes
Freeze Stat Kit		RXXR-AM05	Yes
Return Smoke Detector (Downflow/Vertical)		RXXR-BSG1	Yes
Return Smoke Detector (Horizontal)		RXXR-BSG2	Yes
Return/Supply Smoke Detector (Downflow/Vertical)		RXXR-BSG3	Yes
Return/Supply Smoke Detector (Horizontal)		RXXR-BSG4	Yes
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- 30 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
MERV 8 Filter		RXMF-M08A22420	No
MERV 13 Filter		RXMF-M13A22420	No

*No Flue Diverter Kit

*Unfused Service Disconnect is not available for the 25 ton 230v model. These units are compatible with the Factory Option Circuit Breaker instead.





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 hail guard (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.

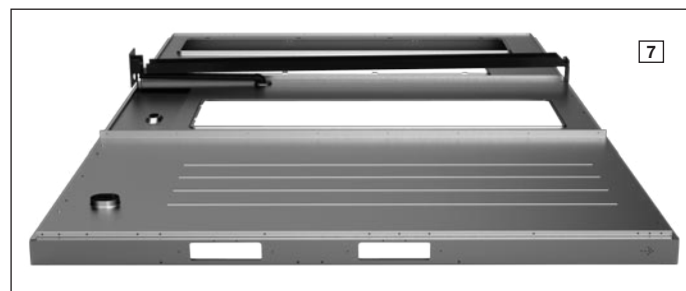
Base Pan

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. 1995, AHRI 340-360 as well as other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 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. Each unit also proudly displays the "Made in the USA" designation.

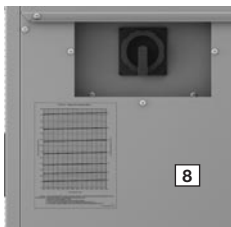
Easy Access

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. Panels are permanently embossed with the compartment name (e.g. control/filter access, blower access, and electric heat access). 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, and filter compartments.



Charging Charts, Wiring Diagrams, & Labels

The unit charging chart is located on the outside of the compressor access panel. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. The model and serial numbers are located on the right of the control box. Having this information on the inside means easier model identification for the life of the product. The production line quality test assurance label is also placed in this location ([8]).



Filter Rack

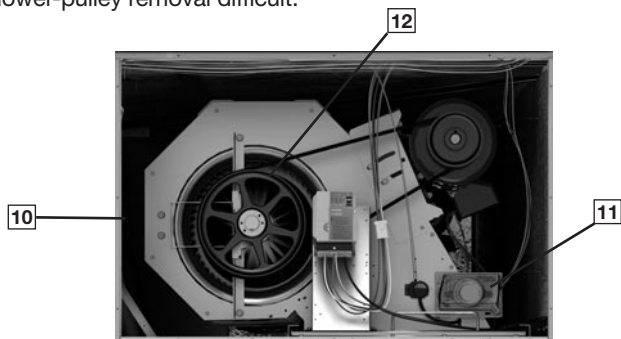
Located within the filter compartment, the Slide-Out Filter Rack ([9]) allows easy change of eight 20 x 24 x 2 standard size filters.



Blower Assembly

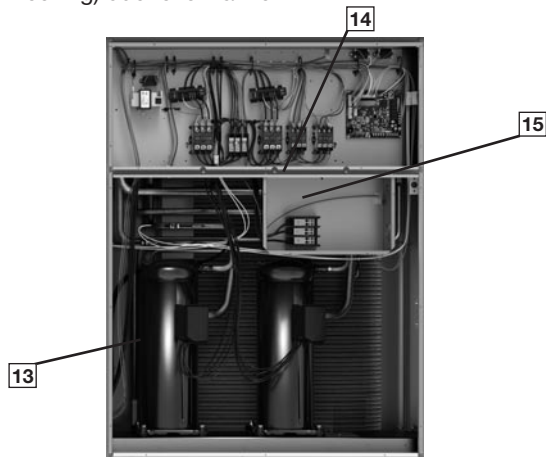
Removal of the blower access panel provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly™ ([10]) allows for easy removal of the blower as an assembly. This makes servicing the blower components such as VFD, motor, and adjusting the pulley much easier. The entire assembly 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.



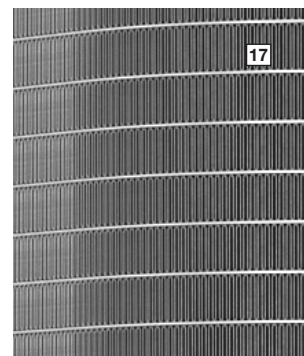
High and Low Pressure Switches & Freeze Stat

High pressure ([13]) and low pressure ([14]) switches are standard. They are located in the outdoor section ([15]). The optional Freeze Stat ([16]) (standard on models with ClearControl), 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.



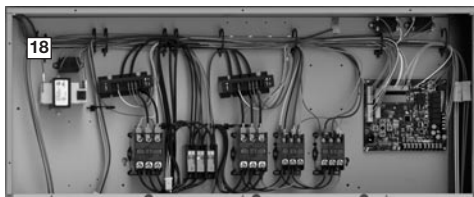
MicroChannel Evaporator & TXV

The patent-pending dual circuit evaporator coil uses micro-channel 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.



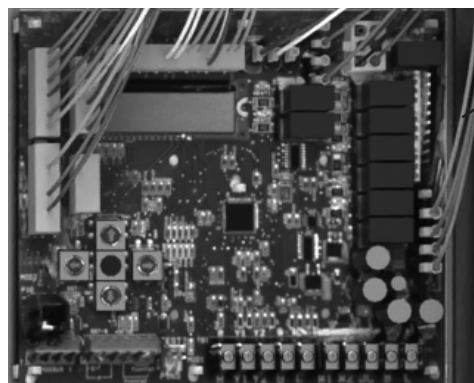
Control Box

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. All 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 blower contactor and compressor contactor for each compressor.



ClearControl™

The optional ClearControl™ system 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.

ComfortAlert®

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. The VFD supply fan factory option meets California Title 24 and ASHRAE 90.1-2019 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.



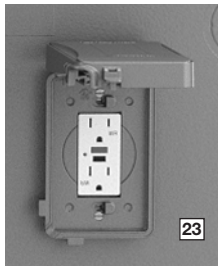
Easily Accessible Gauge Ports

To the right of the compressor compartment are the easily accessible gauge ports. They are permanently identified by embossed lettering 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.



Convenience Outlet, Disconnect, & Circuit Breaker

For added convenience in the field, factory-installed options of powered and non-powered convenience outlet ([23]), disconnect ([24]) and circuit breakers are available. Low and high voltage can enter from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. The high-voltage connection is terminated at the terminal block. The suggested mounting for the field-installed disconnect or circuit breaker is on the exterior side of the electrical control box.



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.



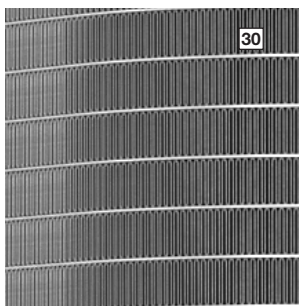
Condenser Fans

The condenser fan motors (29) can easily be accessed and maintained through the top of the unit. A down-mount fan provides corrosion protection and easy removal.



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 direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment 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.

R	AC	G	2	T	180	A	C	F	0	0	B	A	****				
1	23	4	5	6	7 8 9	10	11	12	13	14	15	16	17	18	19	20	21

1—Brand

R = Rheem

2, 3—Unit Type

AC = Packaged AC

4—Cabinet Type

G = Large Commercial

5—Cooling Stages

2 = 2 Stages of Cooling

6—Efficiency Tier

T = Standard Efficiency

7, 8, 9—Capacity

180 = 15 ton

210 = 17.5 ton

240 = 20 ton

300 = 25 ton

10—Major Series

A = 410A

11—Voltage

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phases 575/60

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 = 18kW

36 = 36kW

54 = 54kW

72 = 72kW

15—Heat Configuration

0 = No heat

1 = Single-Stage

2 = 2-Stage

16—Control

B = Core Command & Phase Monitor

C = Clear Control & Phase Monitor

D = Clear Control & Comfort Alert

17—Minor Series

A = 1st design

18, 19, 20, 21—Option Code

AA()A

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

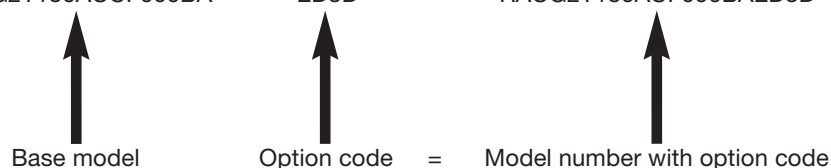
18				19			20			21							
LV = Louver protection				DC = Disconnect			EC = Economizer			M8 = MERV 8 Filter							
HA = Hinged Access				PC = Powered Convenience Outlet			SS = Supply & Return Smoke			M13 = MERV 13 Filter							
CC = Condenser Coil Coating				NP = Non-Powered Convenience Outlet			RS = Return Smoke										
							HC = Horizontal Economizer										
				LF = Low Ambient & Freeze Stat													
				CB = Circuit Breaker													
OPTION CODE CHARACTER HIGHLIGHTED																	
OPT				OPT				OPT				OPT					
A		None		A		None		0		None		A		None			
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				
										D		HC					
										E		HC	RS				
										F		HC	SS				

Instructions for Factory Installed Option(s) Selection

Note: Three 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, "AAO" 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.
- The resulting option code from examples above is: "ED3D"
- **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.
- **Step 5:** Add your option code selection to the end of model number

◦ Example: RACG2T180ACCF000BA ED3D = RACG2T180ACF000BAED3D





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—	230 V – 3 Phase – 60 Hz
Total Cooling Capacity—	118,000 BTUH [34.57 kW]
Sensible Cooling Capacity—	140,000 BTUH [41.0 kW]
Heating Capacity—	175,000 BTUH [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 10 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 BTUH [51.6 kW]
Sensible Cooling Capacity = 131,270 BTUH [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 BTUH [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 = $175,970 \times 1.05 = 137,833$ BTUH [40.4 kW]
Sensible Capacity = $131,270 \times 1.05 = 137,833$ BTUH [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 [0.17 kPa] 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 BTUH HEAT EFFECT FROM MOTOR WATTS, STEP 4.

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

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

$$\text{Net Total Capacity} = 179,489 - 5,623 = 173,866 \text{ BTUH [50.9 kW]}$$

$$\text{Net Sensible Capacity} = 137,833 - 5,623 = 132,210 \text{ BTUH [38.7 kW]}$$

7. CALCULATE UNIT INPUT AND JOB EER.

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

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

8. SELECT UNIT HEATING CAPACITY.

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

Use 54 kW Heater Kit

Heater Kit Model:	Heater Kit Capacity:
RXXJJ-G54KWC	184,256 BTUH [54.0 kW]

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

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

9. CHOOSE MODEL RACG2T180ACF542BAA0A.

*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



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-2019 COMPLIANT MODELS

Model RACG2T Series	180	210	240	300
Cooling Performance^A				
Gross Cooling Capacity Btu [kW]	176,000 [51.57]	208,000 [60.94]	240,000 [70.32]	288,000 [84.38]
EER	11	11	11	10
IEER ^B	14.2	14.2	14.2	13.2
Nominal CFM/AHRI Rated CFM [L/s]	6000/5900 [2831/2784]	7000/6900 [3303/3256]	8000/7300 [3775/3445]	10000/8400 [4719/3964]
AHRI Net Cooling Capacity Btu [kW]	172,000 [50.4]	200,000 [58.6]	230,000 [67.39]	285,000 [85.53]
Net Sensible Capacity Btu [kW]	115,370 [33.8]	133,970 [39.25]	75,500 [22.12]	190,160 [55.72]
Net Latent Capacity Btu [kW]	56,630 [16.59]	66,030 [19.35]	154,500 [45.27]	95,050 [27.86]
Net System Power kW	16	18	21.4	28.2
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)^C				
	88	88	88	88
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 [31.8]	1.25 [31.8]
Rows / FPI [FPcm]	23.8 [2.21]	23.8 [2.21]	196.3 [18.24]	23.8 [2.21]
Refrigerant Control	1 / 18 [7]	1 / 18 [7]	1 / 20 [8]	1 / 18 [7]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	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]	2/30 [762]	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 HP	1	1	1	1
Motor RPM	5	5	5	10
Motor Frame Size	1755	1755	1755	1760
	184	215	184	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]

See Page 14 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 and/or SEER are 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

COOLING PERFORMANCE DATA — RACG2T180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																		
wbE CFM [L/s]	71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]					
	7000 [3304]	5900 [2784]	4800 [2265]	7000 [3304]	5900 [2784]	4800 [2265]	7000 [3304]	5900 [2784]	4800 [2265]	7000 [3304]	5900 [2784]	4800 [2265]	7000 [3304]	5900 [2784]	4800 [2265]			
DR ①	0.32	0.29	0.27	0.32	0.29	0.27	0.32	0.29	0.27	0.32	0.29	0.27	0.32	0.29	0.27			
75°F [23.9°C]	Total BTUH [kW]			207.6 [60.8]			193.7 [56.8]			187.1 [54.8]			182.5 [53.5]			181.4 [53.1]		
	Sens BTUH [kW]			121.4 [35.6]			111.7 [32.7]			102.0 [29.9]			102.0 [29.9]			102.0 [29.9]		
	Power			13.3			13.1			12.9			13.0			13.2		
80°F [26.7°C]	Total BTUH [kW]			203.1 [59.5]			196.4 [57.6]			189.8 [55.6]			195.7 [57.3]			185.5 [55.5]		
	Sens BTUH [kW]			119.1 [34.9]			109.6 [32.1]			100.1 [29.3]			136.9 [40.1]			153.3 [44.9]		
	Power			13.7			13.5			13.3			13.6			13.5		
85°F [29.4°C]	Total BTUH [kW]			198.5 [58.2]			192.0 [56.3]			185.5 [54.4]			191.1 [56.0]			186.2 [54.6]		
	Sens BTUH [kW]			116.8 [34.2]			107.5 [31.5]			98.1 [28.8]			134.6 [39.4]			151.0 [44.3]		
	Power			14.2			13.9			13.7			14.1			14.0		
90°F [32.2°C]	Total BTUH [kW]			194.0 [56.8]			187.6 [55.0]			181.2 [53.1]			186.6 [54.7]			180.4 [52.9]		
	Sens BTUH [kW]			114.5 [33.5]			105.3 [30.9]			96.1 [28.2]			132.2 [38.8]			156.0 [45.7]		
	Power			14.6			14.4			14.2			14.5			14.4		
95°F [35°C]	Total BTUH [kW]			189.4 [55.5]			183.2 [53.7]			177.0 [51.9]			182.1 [53.3]			171.3 [50.2]		
	Sens BTUH [kW]			112.1 [32.8]			103.1 [30.2]			94.1 [27.6]			129.9 [38.1]			146.3 [42.9]		
	Power			15.1			14.9			14.6			15.0			14.9		
100°F [37.8°C]	Total BTUH [kW]			184.9 [54.2]			178.8 [52.4]			172.8 [50.6]			177.5 [52.0]			171.7 [50.3]		
	Sens BTUH [kW]			109.6 [32.1]			100.9 [29.6]			92.1 [27]			127.4 [37.3]			151.2 [44.3]		
	Power			15.7			15.4			15.2			15.6			15.4		
105°F [40.6°C]	Total BTUH [kW]			180.4 [52.9]			174.5 [51.1]			168.6 [49.4]			173.0 [50.7]			167.4 [49.0]		
	Sens BTUH [kW]			107.2 [31.4]			98.6 [28.9]			90.0 [26.4]			124.9 [36.6]			141.4 [41.4]		
	Power			16.3			16.0			15.7			16.2			16.1		
110°F [43.3°C]	Total BTUH [kW]			175.9 [51.5]			170.1 [49.9]			164.4 [48.2]			168.5 [49.4]			163.6 [47.9]		
	Sens BTUH [kW]			104.7 [30.7]			96.3 [28.2]			87.9 [25.8]			122.4 [35.9]			138.8 [40.7]		
	Power			16.9			16.6			16.3			16.8			16.7		
115°F [46.1°C]	Total BTUH [kW]			171.4 [50.2]			165.8 [48.6]			160.2 [46.9]			164.1 [48.1]			159.1 [46.6]		
	Sens BTUH [kW]			102.1 [29.9]			93.9 [27.5]			85.8 [25.1]			119.9 [35.1]			136.3 [39.9]		
	Power			17.5			17.2			16.9			17.4			17.3		
120°F [48.9°C]	Total BTUH [kW]			167.0 [48.9]			161.5 [47.3]			156.0 [45.7]			159.6 [46.8]			154.4 [45.2]		
	Sens BTUH [kW]			99.5 [29.2]			91.6 [26.8]			83.6 [24.5]			117.3 [34.4]			133.7 [39.2]		
	Power			18.2			17.9			17.6			18.1			18.0		
125°F [51.7°C]	Total BTUH [kW]			162.5 [47.6]			157.2 [46.1]			151.9 [44.5]			155.1 [45.5]			150.2 [44.0]		
	Sens BTUH [kW]			96.9 [28.4]			89.1 [26.1]			81.4 [23.9]			114.7 [33.6]			131.1 [38.4]		
	Power			18.9			18.6			18.2			18.8			18.7		

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

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

— Total capacity x 1000 BTUH
Sens — Sensible capacity x 1000 BTUH
Power — kW input



Air

Gross Systems Performance Data

RACG Series

COOLING PERFORMANCE DATA — RACG2T210

wB/E		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①										61°F [16.1°C]										59°F [15.0°C]									
		71°F [21.7°C]		67°F [19.4°C]		63°F [17.2°C]		61°F [16.1°C]		59°F [15.0°C]		8400 [3964]		5600 [3256]		8400 [3964]		5600 [3256]		8400 [3964]		5600 [3256]		8400 [3964]		5600 [3256]		8400 [3964]		5600 [3256]	
CFM [L/s]		0.3		0.28		0.25		0.25		0.25		0.3		0.28		0.25		0.25		0.3		0.28		0.25		0.3		0.28		0.25	
DR ①		0.3		0.28		0.25		0.25		0.25		0.3		0.28		0.25		0.25		0.3		0.28		0.25		0.3		0.28		0.25	
75°F [23.9°C]	Total BTUH [kW]	242.5 [71.1]	233.3 [68.4]	225.3 [66.0]	218.4 [64.0]	235.1 [68.9]	226.2 [66.3]	218.4 [64.0]	230.1 [67.4]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	221.4 [64.9]	
	Sens BTUH [kW]	148.4 [43.5]	134.8 [39.5]	122.9 [36.0]	137.8 [40.4]	166.4 [48.8]	151.1 [44.3]	137.8 [40.4]	183.1 [53.6]	166.2 [48.7]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	151.6 [44.4]	
80°F [26.7°C]	Power	14.0	13.8	13.5	13.7	13.9	13.7	13.5	13.9	13.6	13.4	13.8	13.5	13.3	13.8	13.5	13.3	13.8	13.5	13.3	13.8	13.5	13.3	13.8	13.5	13.3	13.8	13.5	13.3	13.8	13.5
	Total BTUH [kW]	237.9 [69.7]	228.9 [67.1]	221.0 [64.8]	214.1 [62.8]	230.5 [67.5]	221.7 [65.0]	214.1 [62.8]	225.5 [66.1]	216.9 [63.6]	209.5 [61.4]	224.3 [65.7]	215.7 [63.2]	208.3 [61.1]	224.1 [65.7]	215.6 [63.2]	208.2 [61.0]	224.1 [65.7]	215.6 [63.2]	208.2 [61.0]	224.1 [65.7]	215.6 [63.2]	208.2 [61.0]	224.1 [65.7]	215.6 [63.2]	208.2 [61.0]	224.1 [65.7]	215.6 [63.2]	208.2 [61.0]	224.1 [65.7]	215.6 [63.2]
85°F [29.4°C]	Sens BTUH [kW]	146.1 [42.8]	132.7 [38.9]	121.0 [35.5]	135.9 [39.8]	164.1 [48.1]	149.0 [43.7]	135.9 [39.8]	180.8 [53.0]	164.1 [48.1]	149.7 [43.9]	188.2 [55.2]	170.9 [50.1]	155.9 [45.7]	194.9 [57.1]	176.9 [51.8]	161.4 [47.3]	194.9 [57.1]	176.9 [51.8]	161.4 [47.3]	194.9 [57.1]	176.9 [51.8]	161.4 [47.3]	194.9 [57.1]	176.9 [51.8]	161.4 [47.3]	194.9 [57.1]	176.9 [51.8]	161.4 [47.3]	194.9 [57.1]	
	Power	14.5	14.2	13.9	14.1	14.4	14.1	13.9	14.3	14.0	13.8	14.2	14.0	13.7	14.2	13.9	13.7	14.2	13.9	13.7	14.2	13.9	13.7	14.2	13.9	13.7	14.2	13.9	13.7	14.2	13.9
90°F [32.2°C]	Total BTUH [kW]	233.3 [68.4]	224.4 [65.8]	216.8 [63.5]	209.9 [61.5]	225.9 [66.2]	217.3 [63.7]	209.9 [61.5]	220.9 [64.7]	212.5 [62.3]	205.2 [60.1]	219.7 [64.4]	211.3 [61.9]	204.1 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]
	Sens BTUH [kW]	143.8 [42.1]	130.5 [38.2]	119.0 [34.9]	134.0 [39.3]	161.8 [47.4]	146.9 [43.0]	134.0 [39.3]	178.4 [52.3]	162.0 [47.5]	147.7 [43.3]	185.9 [54.5]	168.7 [49.4]	153.9 [45.1]	192.5 [56.4]	174.8 [51.2]	159.4 [46.7]	192.5 [56.4]	174.8 [51.2]	159.4 [46.7]	192.5 [56.4]	174.8 [51.2]	159.4 [46.7]	192.5 [56.4]	174.8 [51.2]	159.4 [46.7]	192.5 [56.4]	174.8 [51.2]	159.4 [46.7]	192.5 [56.4]	
95°F [35°C]	Power	14.9	14.6	14.4	14.5	15.3	15.0	14.7	15.2	14.9	14.7	15.1	14.9	14.6	15.1	14.8	14.6	15.1	14.8	14.6	15.1	14.8	14.6	15.1	14.8	14.6	15.1	14.8	14.6	15.1	14.8
	Total BTUH [kW]	228.7 [67.0]	220.0 [64.5]	212.5 [62.3]	205.6 [60.3]	221.3 [64.9]	212.9 [62.4]	205.6 [60.3]	216.3 [63.4]	208.1 [61.0]	201.0 [58.9]	219.7 [64.4]	211.3 [61.9]	204.1 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]	204.0 [59.8]	219.5 [64.3]	211.2 [61.9]
100°F [37.8°C]	Sens BTUH [kW]	141.4 [41.4]	128.3 [37.6]	117.1 [34.3]	132.0 [38.7]	159.4 [46.7]	144.7 [42.4]	132.0 [38.7]	176.0 [51.6]	159.8 [46.8]	145.7 [42.7]	183.5 [53.8]	166.6 [48.8]	151.9 [44.5]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	
	Power	15.4	15.1	14.8	15.0	15.8	15.5	15.2	15.7	15.4	15.2	15.7	15.4	15.1	15.7	15.4	15.1	15.7	15.4	15.1	15.7	15.4	15.1	15.7	15.4	15.1	15.7	15.4	15.1	15.7	15.4
105°F [40.6°C]	Total BTUH [kW]	224.2 [65.7]	215.7 [63.2]	208.3 [61.0]	201.4 [59.0]	216.8 [63.5]	208.5 [61.1]	201.4 [59.0]	211.8 [62.1]	203.7 [59.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	
	Sens BTUH [kW]	138.9 [40.7]	126.1 [37.0]	115.0 [33.7]	130.0 [38.1]	157.0 [46.0]	142.5 [41.8]	130.0 [38.1]	173.6 [50.9]	157.6 [46.2]	143.7 [42.1]	183.5 [53.8]	166.6 [48.8]	151.9 [44.5]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	172.6 [50.6]	157.4 [46.1]	190.1 [55.7]	
110°F [43.3°C]	Power	15.9	15.6	15.3	15.5	16.3	16.0	15.8	16.2	15.9	15.7	16.1	15.9	15.6	16.2	15.9	15.6	16.2	15.9	15.6	16.2	15.9	15.6	16.2	15.9	15.6	16.2	15.9	15.6	16.2	15.9
	Total BTUH [kW]	219.6 [64.4]	211.3 [61.9]	204.0 [59.8]	197.2 [57.8]	212.2 [62.2]	204.2 [59.8]	197.2 [57.8]	207.2 [60.7]	199.4 [58.4]	192.5 [56.4]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	196.7 [57.7]	
115°F [46.1°C]	Sens BTUH [kW]	136.5 [40.0]	123.9 [36.3]	113.0 [33.1]	127.9 [37.5]	154.5 [45.3]	140.3 [41.1]	127.9 [37.5]	171.1 [50.1]	155.4 [45.5]	141.7 [41.5]	178.6 [52.3]	162.1 [47.5]	147.9 [43.3]	185.2 [54.3]	168.2 [49.3]	153.4 [45.0]	185.2 [54.3]	168.2 [49.3]	153.4 [45.0]	185.2 [54.3]	168.2 [49.3]	153.4 [45.0]	185.2 [54.3]	168.2 [49.3]	153.4 [45.0]	185.2 [54.3]	168.2 [49.3]	153.4 [45.0]	185.2 [54.3]	
	Power	16.4	16.1	15.9	16.0	16.8	16.6	16.3	16.8	16.5	16.2	16.8	16.5	16.2	16.8	16.5	16.2	16.8	16.5	16.2	16.8	16.5	16.2	16.8	16.5	16.2	16.8	16.5	16.2	16.8	16.5
120°F [48.9°C]	Total BTUH [kW]	215.1 [63.0]	206.9 [60.6]	199.8 [58.5]	193.0 [56.5]	207.7 [60.9]	199.8 [58.5]	193.0 [56.5]	202.7 [59.4]	195.0 [57.1]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	188.3 [55.2]	
	Sens BTUH [kW]	134.0 [39.3]	121.6 [35.6]	110.9 [32.5]	125.9 [36.9]	152.0 [44.5]	138.0 [40.4]	125.9 [36.9]	168.6 [49.4]	153.1 [44.9]	139.6 [40.9]	176.1 [51.6]	159.9 [46.8]	145.8 [42.7]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	
125°F [51.7°C]	Power	17.0	16.7	16.4	16.6	17.5	17.2	16.9	17.4	17.1	16.8	17.4	17.1	16.8	17.4	17.1	16.8	17.4	17.1	16.8	17.4	17.1	16.8	17.4	17.1	16.8	17.4	17.1	16.8	17.4	17.1
	Total BTUH [kW]	210.6 [61.7]	202.6 [59.4]	195.6 [57.3]	188.8 [55.3]	203.2 [59.5]	195.5 [57.3]	188.8 [55.3]	198.2 [58.1]	190.6 [55.9]	184.1 [54.0]	197.0 [57.7]	189.5 [55.5]	183.0 [53.6]	196.8 [57.7]	189.3 [55.5]	182.8 [53.6]	196.8 [57.7]	189.3 [55.5]	182.8 [53.6]	196.8 [57.7]	189.3 [55.5]	182.8 [53.6]	196.8 [57.7]	189.3 [55.5]	182.8 [53.6]	196.8 [57.7]	189.3 [55.5]	182.8 [53.6]	196.8 [57.7]	
130°F [54.4°C]	Sens BTUH [kW]	131.4 [38.5]	119.3 [35.0]	108.8 [31.9]	121.6 [35.6]	149.4 [43.8]	135.7 [39.8]	121.6 [35.6]	163.5 [47.9]	148.4 [43.5]	135.4 [39.7]	173.5 [50.9]	157.5 [46.2]	143.7 [42.1]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	
	Power	17.6	17.3	17.0	17.2	18.2	17.8	17.5	18.1	17.7	17.4	18.0	17.7	17.4	18.0	17.7	17.4	18.0	17.7	17.4	18.0	17.7	17.4	18.0	17.7	17.4	18.0	17.7	17.4	18.0	17.7
135°F [57.2°C]	Total BTUH [kW]	206.1 [60.4]	198.2 [58.1]	191.5 [56.1]	184.6 [54.1]	198.7 [58.2]	191.1 [56.0]	184.6 [54.1]	193.7 [56.8]	186.3 [54.6]	179.9 [52.7]	192.4 [56.4]	185.1 [54.3]	178.6 [52.4]	192.3 [56.4]	185.0 [54.2]	178.7 [52.4]	192.3 [56.4]	185.0 [54.2]	178.7 [52.4]	192.3 [56.4]	185.0 [54.2]	178.7 [52.4]	192.3 [56.4]	185.0 [54.2]	178.7 [52.4]	192.3 [56.4]	185.0 [54.2]	178.7 [52.4]	192.3 [56.4]	
	Sens BTUH [kW]	128.8 [37.8]	117.0 [34.3]	106.7 [31.3]	121.6 [35.6]	146.9 [43.0]	133.3 [39.1]	121.6 [35.6]	163.5 [47.9]	148.4 [43.5]	135.4 [39.7]	173.5 [50.9]	157.5 [46.2]	143.7 [42.1]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	165.9 [48.6]	151.3 [44.3]	182.7 [53.6]	
140°F [60.0°C]	Power	18.3	17.9	17.6	17.8	18.8	18.5	18.2	18.7	18.4	18.1	18.7	18.4	18.1	18.7	18.4	18.1	18.7	18.4	18.1	18.7	18.4	18.1	18.7	18.4	18.1	18.7	18.4	18.1	18.7	18.4
	Total BTUH [kW]	201.6 [59.1]	193.9 [56.8]	187.3 [54.9]	180.4 [52.9]	194.2 [56.9]	186.8 [54.7]	180.4 [52.9]	189.2 [55.4]	182.0 [53.3]	175.8 [51.5]	188.0 [55.1]	180.8 [53.0]	174.6 [51.2]	187.8 [55.1]	180.7 [52.9]	174.5 [51.1]	187.8 [55.1]	180.7 [52.9]	174.5 [51.1]	187.8 [55.1]	180.7 [52.9]	174.5 [51.1]	187.8 [55.1]	180.7 [52.9]	174.5 [51.1]	187.8 [55.1]	180.7 [52.9]	174.5 [51.1]	187.8 [55.1]	
145°F [62.8°C]	Sens BTUH [kW]	126.2 [37.0]	114.6 [33.6]	104.5 [30.6]	119.4 [35.0]	144.3 [42.3]	131.0 [38.4]	119.4 [35.0]	160.9 [47.1]	146.1 [42.8]	133.2 [39.0]	168.3 [49.3]	152.8 [44.8]	139.4 [40.8]	175 [51.3]	158.9 [46.6]	144.9 [42.5]	175 [51.3]	158.9 [4												

COOLING PERFORMANCE DATA — RACG2T240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																
wB/E		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
CFM [L/s]		9600 [4531]	7300 [3445]	6400 [3020]	9600 [4531]	7300 [3445]	6400 [3020]	9600 [4531]	7300 [3445]	6400 [3020]	9600 [4531]	7300 [3445]	6400 [3020]	9600 [4531]	7300 [3445]	6400 [3020]
DR ①		0.92	0.98	1.03	0.92	0.98	1.03	0.92	0.98	1.03	0.92	0.98	1.03	0.92	0.98	1.03
75°F [23.9°C]	Total BTUH [kW]	279.8 [82.0]	264.6 [77.6]	258.7 [75.8]	272.3 [79.8]	257.5 [75.5]	251.8 [73.8]	267.2 [78.3]	252.7 [74.1]	247.1 [72.4]	265.9 [77.9]	251.5 [73.7]	245.9 [72.1]	265.8 [77.9]	251.4 [73.7]	245.8 [72.0]
	Sens BTUH [kW]	89.1 [26.1]	77.6 [22.8]	73.2 [21.4]	107.8 [31.6]	94.0 [27.5]	88.6 [26.0]	125.1 [36.7]	109.1 [32.0]	102.8 [30.1]	132.9 [38.9]	115.9 [34.0]	109.2 [32.0]	139.9 [41.0]	121.9 [35.7]	114.9 [33.7]
	Power	17.2	16.8	16.6	17.1	16.7	16.5	17.1	16.6	16.4	16.4	17.0	16.5	16.4	17.0	16.5
80°F [26.7°C]	Total BTUH [kW]	275.1 [80.6]	260.2 [76.3]	254.4 [74.5]	267.6 [78.4]	253.1 [74.2]	247.4 [72.5]	262.5 [76.9]	248.3 [72.8]	242.7 [71.1]	261.3 [76.6]	247.1 [72.4]	241.6 [70.8]	261.1 [76.5]	247.0 [72.4]	241.4 [70.8]
	Sens BTUH [kW]	86.7 [25.4]	75.5 [22.1]	71.2 [20.9]	105.4 [30.9]	91.9 [26.9]	86.6 [25.4]	122.7 [36.0]	107.0 [31.4]	100.8 [29.6]	130.5 [38.2]	113.8 [33.3]	107.2 [31.4]	137.4 [40.3]	119.8 [35.1]	112.9 [33.1]
	Power	17.7	17.2	17	17.6	17.1	16.9	17.5	17	16.8	16.8	17.4	17.0	16.8	17.4	16.9
85°F [29.4°C]	Total BTUH [kW]	270.5 [79.3]	255.8 [75.0]	250.1 [73.3]	262.9 [77.0]	248.7 [72.9]	243.1 [71.2]	257.8 [75.6]	243.9 [71.5]	238.4 [69.9]	256.6 [75.2]	242.7 [71.1]	237.3 [69.5]	255.5 [75.2]	242.6 [71.1]	237.1 [69.5]
	Sens BTUH [kW]	84.2 [24.7]	73.4 [21.5]	69.2 [20.3]	103.0 [30.2]	89.8 [26.3]	84.6 [24.8]	120.3 [35.2]	104.9 [30.7]	98.8 [29.0]	128.1 [37.5]	111.6 [32.7]	105.2 [30.8]	135.0 [39.6]	117.7 [34.5]	110.9 [32.5]
	Power	18.1	17.6	17.4	18.0	17.5	17.3	17.9	17.4	17.2	17.2	17.9	17.4	17.2	17.8	17.3
90°F [32.2°C]	Total BTUH [kW]	265.8 [77.9]	251.4 [73.7]	245.8 [72.0]	258.3 [75.7]	244.3 [71.6]	238.8 [70.0]	253.2 [74.2]	239.5 [70.2]	234.1 [68.6]	251.9 [73.8]	238.3 [69.8]	232.9 [68.3]	251.8 [73.8]	238.2 [69.8]	232.8 [68.2]
	Sens BTUH [kW]	81.7 [23.9]	71.2 [20.9]	67.1 [19.7]	100.5 [29.4]	87.6 [25.7]	82.6 [24.2]	117.8 [34.5]	102.7 [30.1]	96.8 [28.4]	125.6 [36.8]	109.5 [32.1]	103.2 [30.2]	132.5 [38.8]	115.5 [33.9]	108.9 [31.9]
	Power	18.6	18.1	17.9	18.5	18.0	17.8	18.4	17.9	17.7	17.7	18.4	17.9	17.7	18.3	17.8
95°F [35°C]	Total BTUH [kW]	261.2 [76.5]	247 [72.4]	241.5 [70.8]	253.6 [74.3]	239.9 [70.3]	234.5 [68.7]	248.6 [72.8]	235.1 [68.9]	229.8 [67.3]	247.3 [72.5]	233.9 [68.5]	228.7 [67.0]	247.2 [72.4]	233.8 [68.5]	228.5 [67.0]
	Sens BTUH [kW]	79.2 [23.2]	69.0 [20.2]	65.1 [19.1]	98.0 [28.7]	85.4 [25.0]	80.5 [23.6]	115.3 [33.8]	100.5 [29.4]	94.7 [27.8]	123.0 [36.1]	107.3 [31.4]	101.1 [29.6]	130.0 [38.1]	113.3 [33.2]	106.8 [31.3]
	Power	19.1	18.6	18.4	19.0	18.5	18.3	18.9	18.4	18.2	18.2	18.9	18.4	18.2	18.8	18.3
100°F [37.8°C]	Total BTUH [kW]	256.5 [75.2]	242.6 [71.1]	237.2 [69.5]	249.0 [73.0]	235.5 [69.0]	230.2 [67.5]	243.9 [71.5]	230.7 [67.6]	225.5 [66.1]	242.7 [71.1]	229.5 [67.3]	224.4 [65.8]	242.5 [71.1]	229.4 [67.2]	224.3 [65.7]
	Sens BTUH [kW]	76.6 [22.5]	66.8 [19.6]	63.0 [18.4]	95.4 [28.0]	83.2 [24.4]	78.4 [23.0]	112.7 [33.0]	98.2 [28.8]	92.6 [27.1]	120.5 [35.3]	105.0 [30.8]	99.0 [29.0]	127.4 [37.3]	111.1 [32.6]	104.7 [30.7]
	Power	19.7	19.1	18.9	19.6	19.0	18.8	19.5	18.9	18.7	18.7	19.4	18.9	18.7	19.4	18.9
105°F [40.6°C]	Total BTUH [kW]	251.9 [73.8]	238.3 [69.8]	232.9 [68.3]	244.4 [71.6]	231.2 [67.7]	226.0 [66.2]	239.3 [70.1]	226.4 [66.3]	221.3 [64.8]	238.1 [69.8]	225.2 [66.0]	220.1 [64.5]	237.9 [69.7]	225.0 [65.9]	220.0 [64.5]
	Sens BTUH [kW]	74.0 [21.7]	64.5 [18.9]	60.8 [17.8]	92.8 [27.2]	80.9 [23.7]	76.2 [22.3]	110.1 [32.3]	96.0 [28.1]	90.5 [26.5]	117.9 [34.5]	102.8 [30.1]	96.8 [28.4]	124.8 [36.6]	108.8 [31.9]	102.5 [30.0]
	Power	20.2	19.7	19.5	20.1	19.6	19.4	20.0	19.5	19.3	19.3	20.0	19.5	19.2	20.0	19.4
110°F [43.3°C]	Total BTUH [kW]	247.3 [72.5]	233.9 [68.6]	228.7 [67.0]	239.8 [70.3]	226.8 [66.5]	221.7 [65.0]	234.7 [68.8]	222.0 [65.1]	217.0 [63.6]	233.5 [68.4]	220.8 [64.7]	215.9 [63.3]	233.3 [68.4]	220.7 [64.7]	215.8 [63.2]
	Sens BTUH [kW]	71.4 [20.9]	62.2 [18.2]	58.6 [17.2]	90.1 [26.4]	78.6 [23.0]	74.1 [21.7]	107.4 [31.5]	93.7 [27.4]	88.3 [25.9]	115.2 [33.8]	100.4 [29.4]	94.7 [27.7]	122.2 [35.8]	106.5 [31.2]	100.4 [29.4]
	Power	20.8	20.3	20.1	20.8	20.2	20.0	20.7	20.1	19.9	19.9	20.6	20.1	19.8	20.6	20.0
115°F [46.1°C]	Total BTUH [kW]	242.8 [71.1]	229.6 [67.3]	224.5 [65.8]	235.2 [68.9]	222.5 [65.2]	217.5 [63.7]	230.2 [67.4]	217.7 [63.8]	212.8 [62.4]	228.9 [67.1]	216.5 [63.4]	211.6 [62.0]	228.8 [67.0]	216.4 [63.4]	211.5 [62.0]
	Sens BTUH [kW]	68.7 [20.1]	59.9 [17.5]	56.4 [16.5]	87.4 [25.6]	76.2 [22.3]	71.8 [21.1]	104.8 [30.7]	91.3 [26.8]	86.1 [25.2]	112.5 [33.0]	98.1 [28.7]	92.5 [27.1]	119.5 [35.0]	104.2 [30.5]	98.2 [28.8]
	Power	21.5	20.9	20.7	21.4	20.8	20.6	21.3	20.7	20.5	20.5	21.3	20.7	20.5	21.2	20.6
120°F [48.9°C]	Total BTUH [kW]	238.2 [69.8]	225.3 [66.0]	220.2 [64.5]	230.7 [67.6]	218.2 [63.9]	213.3 [62.5]	225.6 [66.1]	213.4 [62.5]	208.6 [61.1]	224.3 [65.7]	212.2 [62.2]	207.4 [60.8]	224.2 [65.7]	212.0 [62.1]	207.3 [60.7]
	Sens BTUH [kW]	66.0 [19.3]	57.5 [16.8]	54.2 [15.9]	84.7 [24.8]	73.9 [21.6]	69.6 [20.4]	102.0 [29.9]	88.9 [26.1]	83.8 [24.6]	109.8 [32.2]	95.7 [28.1]	90.2 [26.4]	116.7 [34.2]	101.8 [29.8]	95.9 [28.1]
	Power	22.2	21.6	21.3	22.1	21.5	21.2	22.0	21.4	21.2	21.2	21.9	21.3	21.1	21.9	21.3
125°F [51.7°C]	Total BTUH [kW]	233.6 [68.5]	221.0 [64.8]	216.0 [63.3]	226.1 [66.3]	213.9 [62.7]	209.1 [61.3]	221.0 [64.8]	209.1 [61.3]	204.4 [59.9]	219.8 [64.4]	207.9 [60.9]	203.2 [59.6]	219.6 [64.4]	207.7 [60.9]	203.1 [59.5]
	Sens BTUH [kW]	63.2 [18.5]	55.1 [16.1]	51.9 [15.2]	82.0 [24.0]	71.4 [20.9]	67.3 [19.7]	99.3 [29.1]	86.5 [25.4]	81.6 [23.9]	107.0 [31.4]	93.3 [27.3]	87.9 [25.8]	114.0 [33.4]	99.4 [29.1]	93.7 [27.4]
	Power	22.9	22.3	22.0	22.8	22.2	21.9	22.7	22.1	21.8	21.8	22.6	22.0	21.8	22.6	22.0

DR — Depression ratio
 dbE — Entering air dry bulb
 wB/E — Entering air wet bulb

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

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



Air

Gross Systems Performance Data

RACG Series

COOLING PERFORMANCE DATA — RACG2T300

wB/E		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①						61°F [16.1°C]						59°F [15.0°C]					
CFM [L/s]		71°F [21.7°C]		67°F [19.4°C]		63°F [17.2°C]		8400 [3964]		12000 [5663]		8400 [3964]		12000 [5663]		8400 [3964]		12000 [5663]	
DR ①		0.2		0.2		0.2		0.19		0.24		0.2		0.24		0.2		0.24	
Total BTUH [kW]		339.4 [99.4]		331.7 [97.2]		326.5 [95.7]		305.1 [89.4]		326.5 [95.7]		302.9 [88.8]		326.5 [95.7]		301.7 [88.4]		325.1 [95.3]	
Sens BTUH [kW]		226.2 [66.3]		245.8 [72.0]		263.9 [77.3]		200.3 [58.7]		263.9 [77.3]		220.0 [64.5]		272.1 [79.7]		226.7 [66.4]		279.3 [81.9]	
Power		26.2		26.1		26.0		25.1		26.0		25.1		26.0		25.0		26.0	
Total BTUH [kW]		334.6 [98.1]		326.9 [95.8]		321.7 [94.3]		300.7 [88.1]		321.7 [94.3]		298.5 [87.5]		320.5 [93.9]		297.3 [87.1]		320.3 [93.9]	
Sens BTUH [kW]		223.7 [65.5]		243.3 [71.3]		261.4 [76.6]		198.3 [58.1]		261.4 [76.6]		217.9 [63.8]		269.6 [79.0]		224.6 [65.8]		276.8 [81.1]	
Power		26.7		25.6		25.5		25.5		26.5		25.5		26.4		25.4		26.4	
Total BTUH [kW]		329.8 [96.7]		322.2 [94.4]		317.0 [92.9]		296.3 [86.8]		317.0 [92.9]		294.1 [86.2]		315.7 [92.5]		292.9 [85.8]		315.6 [92.5]	
Sens BTUH [kW]		221.1 [64.8]		240.8 [70.5]		258.9 [75.9]		196.2 [57.5]		258.9 [75.9]		215.7 [63.2]		267.0 [78.2]		222.5 [65.2]		274.3 [80.4]	
Power		27.1		27.0		26.9		25.9		26.9		25.9		26.9		25.9		26.8	
Total BTUH [kW]		325.1 [95.3]		317.4 [93.0]		312.2 [91.5]		294.5 [86.3]		312.2 [91.5]		289.7 [84.9]		311.0 [91.1]		288.5 [84.5]		310.8 [91.1]	
Sens BTUH [kW]		218.5 [64.0]		238.1 [69.8]		256.3 [75.1]		194.0 [56.9]		256.3 [75.1]		213.5 [62.6]		264.4 [77.5]		220.3 [64.6]		271.7 [79.6]	
Power		27.6		26.5		26.4		26.4		27.4		26.4		27.4		26.3		27.3	
Total BTUH [kW]		320.4 [93.9]		312.7 [91.6]		307.5 [90.1]		287.6 [84.3]		307.5 [90.1]		285.3 [83.6]		306.2 [89.7]		284.1 [83.3]		306.1 [89.7]	
Sens BTUH [kW]		215.9 [63.3]		235.5 [69.0]		253.6 [74.3]		191.9 [56.2]		253.6 [74.3]		211.3 [61.9]		261.7 [76.7]		218.1 [63.9]		269.0 [78.8]	
Power		28.1		28.0		27.9		26.9		27.9		26.9		27.9		26.9		27.8	
Total BTUH [kW]		315.7 [92.5]		308.0 [90.2]		302.8 [88.7]		283.2 [83.0]		302.8 [88.7]		280.9 [82.3]		301.5 [88.4]		279.7 [82.0]		301.4 [88.3]	
Sens BTUH [kW]		213.2 [62.5]		232.8 [68.2]		250.9 [73.5]		189.7 [55.6]		250.9 [73.5]		209.1 [61.3]		259.1 [75.9]		215.9 [63.3]		266.3 [78.0]	
Power		28.7		28.6		27.5		27.4		28.5		27.4		28.4		27.4		28.4	
Total BTUH [kW]		311.0 [91.1]		303.3 [88.9]		281.4 [82.4]		278.9 [81.7]		281.4 [82.4]		276.6 [81.0]		296.8 [87.0]		275.4 [80.7]		296.7 [86.9]	
Sens BTUH [kW]		210.5 [61.7]		230.1 [67.4]		248.2 [72.7]		187.5 [54.9]		248.2 [72.7]		206.8 [60.6]		256.3 [75.1]		213.6 [62.6]		263.6 [77.2]	
Power		29.3		29.2		28.1		28.0		29.1		28.0		29.0		28.0		29.0	
Total BTUH [kW]		306.3 [89.8]		298.6 [87.5]		277.0 [81.2]		274.6 [80.5]		293.4 [86.0]		272.2 [79.8]		292.1 [85.6]		271.0 [79.4]		292.0 [85.6]	
Sens BTUH [kW]		207.7 [60.9]		227.3 [66.6]		245.4 [71.9]		185.2 [54.3]		245.4 [71.9]		204.5 [59.9]		253.6 [74.3]		211.3 [61.9]		260.8 [76.4]	
Power		29.9		29.8		28.7		28.6		29.7		28.6		29.6		28.6		29.6	
Total BTUH [kW]		301.6 [88.4]		293.9 [86.1]		272.7 [79.9]		266.0 [78.0]		288.7 [84.6]		267.9 [78.5]		287.5 [84.2]		266.7 [78.2]		287.3 [84.2]	
Sens BTUH [kW]		204.9 [60.0]		224.5 [65.8]		242.6 [71.1]		180.6 [52.9]		242.6 [71.1]		202.2 [59.2]		250.7 [73.5]		209.0 [61.2]		258.0 [75.6]	
Power		30.5		30.4		29.3		29.2		30.3		29.2		30.3		29.2		30.2	
Total BTUH [kW]		297.0 [87.0]		289.3 [84.8]		273.1 [80.0]		268.4 [78.6]		288.7 [84.6]		263.6 [77.2]		282.8 [82.9]		262.4 [76.9]		282.7 [82.8]	
Sens BTUH [kW]		202.0 [59.2]		221.7 [65.0]		239.8 [70.3]		180.6 [52.9]		239.8 [70.3]		199.8 [58.5]		247.9 [72.6]		206.6 [60.5]		255.2 [74.8]	
Power		31.2		31.1		30.0		29.8		31.0		29.9		31.0		29.8		30.9	
Total BTUH [kW]		292.3 [85.7]		284.6 [83.4]		264.1 [77.4]		261.8 [76.7]		279.5 [81.9]		259.3 [76.0]		278.2 [81.5]		258.1 [75.6]		278.0 [81.5]	
Sens BTUH [kW]		199.1 [58.4]		218.8 [64.1]		182.3 [53.4]		178.3 [52.2]		236.9 [69.4]		197.4 [57.8]		245.0 [71.8]		204.2 [59.8]		252.3 [73.9]	
Power		31.9		31.8		30.7		30.5		31.7		30.6		31.7		30.5		31.6	

DR —Depression ratio
dbE —Entering air dry bulb
wB/E —Entering air wet bulb

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)].

—Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

[] Designates Metric Conversions



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

Air Flow CFM [L/s]	Model RACG2T180A		Voltage 208/230, 460, 575 — 3 phase 60 Hz		External Static Pressure—Inches of Water [kPa]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.30]	1.3 [.32]	1.4 [.35]	1.5 [.37]	1.6 [.40]	1.7 [.42]	1.8 [.45]	1.9 [.47]	2.0 [.50]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM 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BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	R

NOTE: F-Drive left of bold line, G-Drive right of bold line.

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	0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6								
RPM	1	813	777	745	712	681	645	1	1012	985	949	912	881	844	1	1052	1016	983	952	916	878	1	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. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

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

Air Flow CFM [L/s]	Model RACG2T180A		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																				
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	3.18	900	3.32	923	3.47	946	3.64	968	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	1.48	658	1.65	694	1.83	731	2.03	769	2.25	807	2.49	839	3.42	869	3.69	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	811	2.73	843	3.45	873	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	551	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	587	571	1.65	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	160	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	5.03	1019	5.32	1040	5.62		
6400 [3020]	—	—	556	1.51	588	165	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	1040	5.62		
6500 [3067]	—	—	560	1.56	591	171	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	176	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	182	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	578	1.78	606	1.95	637	2.14	668	2.34	699	2.57	732	2.82	764	3.09	797	3.38	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	640	2.21	671	2.42	703	2.65	734	2.90	767	3.18	800	3.47	834	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 right of bold line.

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	1V44							1VP56							1VP56						
Turns Open	0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6
RPM	I	806	774	743	707	672	637	I	1000	967	935	901	866	832	I	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. Re-adjustment of sheave required to achieve rated airflow at AHR minimum External Static Pressure

4. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

COMPONENT AIRFLOW RESISTANCE—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]												
Wet Coil	0.01 [.00]	0.02 [.00]	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.06 [.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	0.7 [0.33]	0.7 [0.33]	0.8 [0.37]	0.8 [0.37]	0.8 [0.37]	0.8 [0.37]	0.8 [0.37]	0.8 [0.37]	0.9 [0.42]	0.9 [0.42]	0.9 [0.42]	0.9 [0.42]	0.9 [0.42]
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]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition FXMC-CJ07	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 MBH	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 MBH	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

Model RAC62T210A		Voltage 208/230, 460, 575 — 3 phase 60 Hz		External Static Pressure—Inches of Water [kPa]																					
Air Flow CFM [L/s]		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
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 2.12	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	892 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	898 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 3.64	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 3.85	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 3.95	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 right of bold line.

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		0	1	2	3	4	5	6	0	1	2	3	4	5	6	0	1	2	3	4	5	6			
RPM		814	781	750	718	679	645	610	575	540	505	470	435	400	365	330	295	260	225	190	155	120			

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. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

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

Air Flow CFM [L/s]	Model RACG2T210A 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	
5600 [2643]	—	—	—	—	599	1.41	633	1.58	666	1.77	700	1.98	733	2.21	766	2.46	799	2.73	842	3.44	958	4.54
5700 [2690]	—	—	—	—	602	1.45	635	1.63	669	1.82	702	2.04	735	2.27	768	2.52	800	2.79	843	3.45	958	4.56
5800 [2737]	—	—	—	—	604	1.49	638	1.67	671	1.87	704	2.09	737	2.33	769	2.58	802	2.86	844	3.47	959	4.58
5900 [2784]	—	—	—	—	607	1.53	640	1.72	673	1.92	706	2.15	739	2.39	771	2.65	803	2.93	845	3.49	960	4.61
6000 [2831]	—	—	—	—	577	1.41	610	1.58	643	1.77	676	1.98	708	2.21	741	2.45	773	2.72	805	3.00	846	3.51
6100 [2878]	—	—	—	—	580	1.45	613	1.63	646	1.82	678	2.04	711	2.27	743	2.52	775	2.79	807	3.08	848	3.54
6200 [2926]	—	—	—	—	583	1.50	616	1.68	649	1.88	681	2.10	713	2.34	745	2.59	777	2.86	808	3.16	849	3.57
6300 [2973]	—	—	—	—	587	1.55	619	1.74	651	1.94	684	2.16	716	2.40	747	2.66	779	2.94	810	3.24	850	3.60
6400 [3020]	—	—	—	—	590	1.60	622	1.79	654	2.00	686	2.23	718	2.47	750	2.74	781	3.02	812	3.32	852	3.64
6500 [3067]	—	—	—	—	593	1.66	625	1.85	657	2.07	689	2.30	721	2.55	752	2.82	783	3.10	814	3.41	853	3.68
6600 [3114]	—	—	—	—	597	1.72	629	1.91	660	2.13	692	2.37	723	2.62	754	2.90	785	3.19	816	3.50	855	3.73
6700 [3162]	—	—	—	—	600	1.78	632	1.98	663	2.20	695	2.44	726	2.70	757	2.98	788	3.28	818	3.59	857	3.78
6800 [3209]	—	—	—	—	604	1.84	635	2.05	667	2.27	698	2.52	729	2.78	759	3.07	790	3.37	820	3.69	858	3.83
6900 [3256]	—	—	—	—	576	1.71	608	1.91	639	2.12	670	2.35	701	2.60	731	2.87	762	3.15	792	3.46	822	3.78
7000 [3303]	—	—	—	—	580	1.78	611	1.98	642	2.19	673	2.43	704	2.68	734	2.95	765	3.25	795	3.56	825	3.88
7100 [3350]	—	—	—	—	584	1.84	615	2.05	646	2.27	676	2.51	707	2.77	737	3.04	767	3.34	797	3.65	836	3.72
7200 [3398]	—	—	—	—	588	1.91	619	2.12	649	2.35	680	2.59	710	2.85	740	3.14	770	3.44	800	3.76	838	3.78
7300 [3445]	—	—	—	—	592	1.99	623	2.20	653	2.43	683	2.68	713	2.95	743	3.23	773	3.54	802	3.86	841	3.85
7400 [3492]	—	—	—	—	596	2.06	626	2.28	657	2.51	687	2.77	717	3.04	746	3.33	776	3.64	805	3.97	843	3.93
7500 [3539]	—	—	—	—	600	2.14	630	2.36	660	2.60	690	2.86	720	3.13	749	3.43	779	3.74	808	4.05	845	4.00
7600 [3586]	—	—	—	—	605	2.22	634	2.45	664	2.69	694	2.95	723	3.23	752	3.53	782	3.85	810	4.19	847	4.08
7700 [3633]	—	—	—	—	579	2.09	609	2.30	639	2.53	668	2.78	698	3.05	727	3.33	756	3.64	785	3.96	813	4.30
7800 [3681]	—	—	—	—	583	2.17	613	2.39	643	2.62	672	2.88	701	3.15	730	3.44	759	3.75	788	4.07	816	4.42
7900 [3728]	—	—	—	—	588	2.26	618	2.48	647	2.72	676	2.97	705	3.25	734	3.54	762	3.86	791	4.19	819	4.54
8000 [3775]	—	—	—	—	593	2.35	622	2.57	651	2.81	680	3.07	709	3.35	737	3.65	766	3.97	794	4.31	822	4.66
8100 [3822]	—	—	—	—	597	2.44	627	2.66	655	2.91	684	3.18	713	3.46	741	3.77	769	4.09	797	4.43	834	4.24
8200 [3869]	—	—	—	—	602	2.53	631	2.76	660	3.01	688	3.28	717	3.57	745	3.88	773	4.21	801	4.55	836	4.34
8300 [3917]	578	2.40	607	2.62	636	2.86	664	3.12	693	3.39	721	3.69	749	4.00	776	4.33	804	4.68	839	4.44	865	4.75
8400 [3964]	583	2.50	612	2.72	641	2.96	669	3.22	697	3.50	725	3.80	753	4.12	780	4.45	808	4.81	842	4.55	868	4.86

NOTE: F—Drive left of bold line. G—Drive right of bold line.

NOTE: F-Drive left of bold line, G-Drive right of bold line.

Drive Package	F										G										H									
	3 [237.1]										5 [3728.5]										7.5 [5592.7]									
	BK90H										BK95H										BK100H									
	1VL44										1VP56										1VP65									
Turns Open	0	1	2	3	4	5	6	6	6	6	0	1	2	3	4	5	5	5	5	5	0	1	2	3	4	5	5	5	5	5
RPM	—	806	776	743	713	678	637	637	637	637	—	—	967	935	901	866	832	832	832	832	—	1084	1054	1024	991	959	926	926	926	926

- NOTES: 1. Factory shaver settings are shown in bold type.
2. Do not set motor shaver below minimum or maximum turns open shown.
3. Re-adjustment of shaver required to achieve rated airflow at AHRI minimum External Static Pressure
4. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions



Air

Airflow Performance
RACG Series



INTEGRATED AIR & WATER



COMPONENT AIRFLOW RESISTANCE—17.5 TON [61.5 kW]

CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
	Resistance—Inches of Water [kPa]														
Wet Coil	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.08 [.02]	0.09 [.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]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	0.35 [.09]	0.39 [.10]	0.43 [.11]	0.46 [.11]	0.5 [.12]	0.54 [.13]	0.57 [.14]	0.61 [.15]	0.64 [.16]	0.68 [.17]	0.72 [.18]	0.75 [.19]	0.79 [.20]	0.83 [.21]	0.86 [.21]

AIRFLOW CORRECTION FACTORS—17.5 TON [61.5 kW]

CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
	Resistance—Inches of Water [kPa]														
Total MBH	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 MBH	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

Airflow Performance
RACG Series

Air Flow CFM [L/s]	Model RACG2T180A		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

NOTE: F-Drive left of bold line, G-Drive right of bold line.



INTEGRATED AIR & WATER

AIRFLOW PERFORMANCE— 20 TON [70.3 kW] —60 Hz—SIDEFLOW (Con't.)

F			G						H									
Drive Package																		
Motor H.P. [W]	5 [3728.5]			5 [3728.5]						7.5 [5592.7]								
Blower Sheave	BK105			BK90						BK105								
Motor Sheave	1VP-56			1VP-56						1VP71								
Turns Open	0	1	2	3	4	5	6	0	1	2	3	4	5	6				
RPM	1	909	884	853	823	790	759	1	1052	1016	983	952	916	878	1073	1048	1017	984

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. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions



Air

Airflow Performance
RACG Series

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

Air Flow CFM [L/s]	Model RACG2T180A										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							
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	3.77	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	1026	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	5.22	1009	5.50	1033	5.68	1058	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	3.62	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	662	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	6.43	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	7.02	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	861	5.48	886	5.80	912	6.12	939	6.81	963	7.22	987	7.62	1009	8.02	1032	8.42	1054	8.81	1076	7.83	1101	8.15	1124	8.48							
9500 [4483]	652	3.31	679	3.57	706	3.84	733	4.11	760	4.39	786	4.68	812	4.98	838	5.29	864	5.60	890	5.92	915	6.25	942																								

NOTE: F-Drive left of bold line, G-Drive right of bold line.



INTEGRATED AIR & WATER

AIRFLOW PERFORMANCE— 20 TON [70.3 kW] —60 Hz — DOWNFLOW (Con't.)

F			G						H												
Drive Package																					
Motor H.P. [W]	5 [3728.5]			5 [3728.5]						7.5 [5592.7]											
Blower Sheave	BK105			BK90						BK105											
Motor Sheave	1VP-56			1VP-56						1VP71											
Turns Open	0	1	2	3	4	5	6	0	1	2	3	4	5	6							
RPM	1	919	883	847	818	789	761	1	1035	998	961	932	903	874	1	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. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions



Air

Airflow Performance
RACG Series

COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW]

CFM [L/s]	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800	9000	9200	9400	9600
	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]	[4058]	[4153]	[4247]	[4341]	[4436]	[4530]
Resistance—Inches of Water [kPa]																
Wet Coil	0.09 [.02]	0.09 [.02]	0.09 [.02]	0.09 [.02]	0.1 [.02]	0.1 [.02]	0.1 [.02]	0.1 [.02]	0.11 [.03]	0.11 [.03]	0.11 [.03]	0.11 [.03]	0.12 [.03]	0.12 [.03]	0.12 [.03]	0.12 [.03]
Downflow Economizer RA Damper Open	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]	0.1 [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	0.111 [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	0.076 [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]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	0.29 [.07]	0.32 [.08]	0.35 [.09]	0.38 [.09]	0.41 [.10]	0.44 [.11]	0.47 [.12]	0.5 [.12]	0.53 [.13]	0.56 [.14]	0.6 [.15]	0.63 [.16]	0.66 [.16]	0.69 [.17]	0.72 [.18]	0.75 [.19]

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 MBH	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 MBH	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



INTEGRATED AIR & WATER



Air

Airflow Performance
RACG Series

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

Air Flow CFM [L/s]	Model RAC62T300A		Voltage 208/230, 460, 575 — 3 phase 60 Hz		External Static Pressure—Inches of Water [kPa]																					
					0.1 [0.02]												0.2 [0.05]									
	RPM	BHP	RPM	BHP	RPM	BHP	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	1027	6.42	1047	6.68
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	1033	6.59	1053	6.85
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	1020	6.50	1040	6.77
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	1026	6.69	1046	6.95
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	1033	6.87	1053	7.14
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	1040	7.06	1059	7.32	1078	7.58
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	6.70	1027	6.98	1046	7.25	1066	7.51	1085	7.77
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	1053	7.44	1072	7.70	1091	7.96
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	1060	7.64	1079	7.90	1097	8.15
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	1067	7.84	1085	8.10	1104	8.35
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	1074	8.04	1092	8.30	1110	8.55
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	1080	8.24	1099	8.50	1117	8.75
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	1087	8.45	1105	8.71	1123	8.96
9300 [4388]	919	6.03	937	6.30	955	6.56	972	6.82	989	7.08	1007	7.28	1024	7.55	1039	7.84	1058	8.12	1076	8.39	1094	8.66	1112	8.92	1130	9.16
9400 [4436]	928	6.23	946	6.50	963	6.76	980	7.03	998	7.28	1016	7.47	1028	7.76	1043	8.05	1065	8.33	1083	8.61	1101	8.87	1119	9.13	1136	9.37
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	1108	9.09	1125	9.34	1143	9.59
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	1115	9.30	1132	9.56	1149	9.80
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	1122	9.53	1139	9.78	1152	10.01
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	1129	9.75	1146	10.00	1159	10.27
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	1136	9.98	1149	10.23	1166	10.54
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	1143	10.20	1157	10.49	1174	10.81
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	1150	10.44	1164	10.77	1181	11.08
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	1156	10.75	1172	11.05	1188	11.37
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	10.38	1148	10.65	1164	11.04	1180	11.34	1195	11.66
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	1172	11.33	1187	11.64	1203	11.96
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	1180	11.63	1195	11.94	1210	12.26
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	1188	11.94	1203	12.25	1218	12.57
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	1196	12.25	1210	12.56	1225	12.89
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	1189	12.27	1204	12.57	1218	12.88	1233	13.21
10900 [5143]	1047	9.52	1064	9.84	1080	10.16	1097	10.47	1113	10.77	1130	11.06	1146	11.34	1169	12.03	1184	12.31	1198	12.60	1212	12.90	1226	13.21	1241	13.54
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	1220	13.23	1234	13.54	1248	13.87
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	1228	13.57	1242	13.88	—	—
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	1237	13.91	1250	14.23	—	—
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	1245	14.26	—	—	—	—
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	1253	14.62	—	—	—	—
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	12.03	1183	13.59	1195	13.81	1207	14.05	1219	14.30	1240	14.56	1242	14.83	—	—	—	—	—	—	—	—	—	—
11800 [5568]	1130	12.01	1145	12.33	1194	13.96	1205	14.19	1217	14.42	1228	14.67	1240	14.93	1252	15.21	—	—	—	—	—	—	—	—	—	—
11900 [5615]	1139	12.30	1194	14.13	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: F-Drive left of bold line, G-Drive right of bold line.



AIRFLOW PERFORMANCE — 25 TON [87.9 kW] — 60 Hz — SIDEFLOW (Cont'd.)

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	0	1	2	3	4	5	6	0	1	2	3	4	0	1	2	3	4	5
RPM	—	999	965	935	905	875	844	—	1143	1109	1079	1047	1015	985	951	919	887	854

- 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. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions



Air

Airflow Performance
RACG Series

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

Air Flow CFM [L/s]	Model RACG2T300A		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							
8000 [3775]	—	—	—	—	—	—	—	—	—	—	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	1001	5.58	1023	5.93	1048	6.18	1072	6.44	1097	6.71							
8100 [3822]	—	—	—	—	—	—	—	—	—	—	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	1074	6.54	1099	6.81							
8200 [3869]	—	—	—	—	—	—	—	—	—	—	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	1076	6.64	1100	6.91							
8300 [3917]	—	—	—	—	—	—	—	—	—	—	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 [3964]	—	—	—	—	—	—	—	—	—	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 [4011]	—	—	—	—	—	—	—	—	—	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 [4058]	—	—	—	—	—	—	—	—	—	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 [4105]	—	—	—	—	—	—	—	—	—	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 [4153]	—	—	—	—	—	—	—	—	—	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 [4200]	—	—	—	—	—	—	—	—	—	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 [4247]	—	—	—	—	—	—	—	—	—	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 [4294]	—	—	—	—	—	—	—	—	—	724	3.93	750	4.07	776	4.24	801	4.42	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 [4341]	—	—	—	—	—	—	—	—	—	728	4.00	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 [4388]	—	—	—	—	—	—	—	—	—	733	4.07	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 [4436]	—	—	—	—	—	—	—	—	—	737	4.15	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	1032	7.14	1053	7.42	1076	7.72	1100	8.02	1124	8.33				
9500 [4483]	—	—	—	—	—	—	—	—	—	742	4.23	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	1038	7.26	1055	7.55	1079	7.85	1102	8.15	1126	8.46				
9600 [4530]	—	—	—	—	—	—	—	—	—	722	4.16	747	4.31	772	4.48	797	4.66	821	4.86	846	5.08	871	5.31	894	5.55	918	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 [4577]	—	—	—	—	—	—	—	—	—	726	4.24	752	4.40	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 [4624]	—	—	—	—	—	—	—	—	—	731	4.33	756	4.49	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 [4672]	—	—	—	—	—	—	—	—	—	736	4.41	761	4.58	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 [4719]	—	—	—	—	—	—	—	—	—	741	4.51	766	4.68	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 [4766]	—	—	—	—	—	—	—	—	—	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 [4813]	—	—	—	—	—	—	—	—	—	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 [4860]	—	—	—	—	—	—	—	—	—	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 [4908]	—	—	—	—	—	—	—	—	—	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 [4955]	—	—	—	—	—	—	—	—	—	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 [5002]	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 [5049]	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 [5096]	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 [5143]	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 [5191]	749	5.23	772	5.41	795	5.61																																									

NOTE: F-Drive left of bold line, G-Drive right of bold line.



AIRFLOW PERFORMANCE — 25 TON [87.9 kW] — 60 Hz — DOWNFLOW (Con't.)

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	0	1	2	3	4	5	6	0	1	2	3	4	0	1	2	3	4	5
RPM	—	995	962	929	892	855	818	—	1138	2214	1076	1044	1012	979	979	1167	1134	1101

- 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. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

**COMPONENT AIRFLOW RESISTANCE—25 TON [87.9 kW]**

CFM [L/s]	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000
	[3775]	[3964]	[4153]	[4341]	[4530]	[4719]	[4908]	[5096]	[5285]	[5474]	[5663]
	Resistance—Inches of Water										
Wet Coil	0.10 [.03]	0.11 [.03]	0.11 [.03]	0.12 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.14 [.03]	0.15 [.04]	0.15 [.04]	0.16 [.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]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	0.17 [.04]	0.23 [.06]	0.3 [.07]	0.36 [.09]	0.43 [.11]	0.5 [.12]	0.56 [.14]	0.63 [.16]	0.69 [.17]	0.76 [.19]	0.82 [.20]

AIRFLOW CORRECTION FACTORS—25 TON [87.9 kW]

CFM [L/s]	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000
	[3775]	[3964]	[4153]	[4341]	[4530]	[4719]	[4908]	[5096]	[5285]	[5474]	[5663]
	Resistance—Inches of Water										
Total MBH	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
Sensible MBH	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 – RACG2T SERIES WITHOUT POWERED EXHAUST

		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	414-506	517-633	517-633	517-633
	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	76/76	82/82	82/82	39	41	41	28	31	31
	Minimum Overcurrent Protection Device Size	90/90	90/90	90/90	45	45	45	35	35	35
	Maximum Overcurrent Protection Device Size	100/100	100/100	100/100	50	50	50	35	35	35
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	6	6	6	6	6	6	6	6	6
	Amps (RLA), Comp. 1	25	25	25	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 1	164	164	164	100	100	100	78	78	78
	HP, Compressor 2	6	6	6	6	6	6	6	6	6
	Amps (RLA), Comp. 2	25	25	25	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 2	164	164	164	100	100	100	78	78	78
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	1	1	1	1	1	1	1	1	1
	HP	3/4	3/4	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	2.3	1.2	1.2	1.2
	Amps (LRA, each)	10.1	10.1	10.1	4.9	4.9	4.9	3.4	3.4	3.4
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	5	3	5	5	3	5	5
	Amps (FLA, each)	9.2	13.6	13.6	4.6	6.3	6.3	3.5	5.1	5.1
	Amps (LRA, each)	74.5	95.0	95.0	38.1	47.5	47.5	30.0	38.0	38.0

ELECTRICAL DATA – RACG2T SERIES WITH POWERED EXHAUST

		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	414-506	517-633	517-633	517-633
	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	80/80	86/86	86/86	40	43	43	30	32	32
	Minimum Overcurrent Protection Device Size	90/90	100/100	100/100	45	50	50	35	35	35
	Maximum Overcurrent Protection Device Size	100/100	110/110	110/110	50	50	50	35	40	40
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	6	6	6	6	6	6	6	6	6
	Amps (RLA), Comp. 1	25	25	25	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 1	164	164	164	100	100	100	78	78	78
	HP, Compressor 2	6	6	6	6	6	6	6	6	6
	Amps (RLA), Comp. 2	25	25	25	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 2	164	164	164	100	100	100	78	78	78
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	1	1	1	1	1	1	1	1	1
	HP	3/4	3/4	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	2.3	1.2	1.2	1.2
	Amps (LRA, each)	10.1	10.1	10.1	4.9	4.9	4.9	3.4	3.4	3.4
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	5	3	5	5	3	5	5
	Amps (FLA, each)	9.2	13.6	13.6	4.6	6.3	6.3	3.5	5.1	5.1
	Amps (LRA, each)	74.5	95.0	95.0	38.1	47.5	47.5	30.0	38.0	38.0

ELECTRICAL DATA – RACG2T SERIES WITHOUT POWERED EXHAUST

		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	517-633	517-633	517-633
	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	s	60	60	60
	Minimum Circuit Ampacity	84/84	90/90	98/98	39	42	46	30	33	35
	Minimum Overcurrent Protection Device Size	100/100	100/100	110/110	45	45	50	35	35	40
	Maximum Overcurrent Protection Device Size	110/110	110/110	110/110	50	50	50	35	40	40
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	27.6	27.6	27.6	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 1	191	191	191	100	100	100	78	78	78
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	27.6	27.6	27.6	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 2	191	191	191	100	100	100	78	78	78
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	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	11	11
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	4.6	6.3	9.6	3.5	5.1	7.7
	Amps (LRA, each)	74.5	95	127	38.1	47.5	63.5	30.0	38.0	50.8

ELECTRICAL DATA – RACG2T SERIES WITH POWERED EXHAUST

		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	517-633	517-633	517-633
	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	89/89	95/95	102/102	41	44	47	32	34	37
	Minimum Overcurrent Protection Device Size	100/100	110/110	110/110	45	50	50	35	40	40
	Maximum Overcurrent Protection Device Size	110/110	110/110	125/125	50	50	50	40	40	45
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	27.6	27.6	27.6	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 1	191	191	191	100	100	100	78	78	78
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	27.6	27.6	27.6	12.8	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 2	191	191	191	100	100	100	78	78	78
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	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	11	11
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	4.6	6.3	9.6	3.5	5.1	7.7
	Amps (LRA, each)	74.5	95	127	38.1	47.5	63.5	30.0	38.0	50.8

ELECTRICAL DATA – RACG2T SERIES WITHOUT POWERED EXHAUST

		240ACF	240ACG	240ACH	240ADF	240ADG	240ADH	240AYF	240AYG	240AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	517-633	517-633	517-633
	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	92/92	92/92	99/99	47	47	50	36	36	39
	Minimum Overcurrent Protection Device Size	100/100	100/100	110/110	50	50	60	40	40	45
	Maximum Overcurrent Protection Device Size	110/110	110/110	125/125	60	60	60	45	45	50
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 1	28.2	28.2	28.2	14.7	14.7	14.7	11.3	11.3	11.3
	Amps (LRA), Comp. 1	240	240	240	130	130	130	93.7	93.7	93.7
	HP, Compressor 2	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 2	28.2	28.2	28.2	14.7	14.7	14.7	11.3	11.3	11.3
	Amps (LRA), Comp. 2	240	240	240	130	130	130	93.7	93.7	93.7
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	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	11	11
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	5	5	7.5	5	5	7.5	5	5	7.5
	Amps (FLA, each)	13.6	13.6	21	6.3	6.3	9.6	5.1	5.1	7.7
	Amps (LRA, each)	95	95	127	47.5	47.5	63.5	38.0	38.0	50.8

ELECTRICAL DATA – RACG2T SERIES WITH POWERED EXHAUST

		240ACF	240ACG	240ACH	240ADF	240ADG	240ADH	240AYF	240AYG	240AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	517-633	517-633	517-633
	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	96/96	96/96	104/104	48	48	52	38	38	41
	Minimum Overcurrent Protection Device Size	110/110	110/110	125/125	60	60	60	45	45	45
	Maximum Overcurrent Protection Device Size	110/110	110/110	125/125	60	60	60	45	45	50
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 1	28.2	28.2	28.2	14.7	14.7	14.7	11.3	11.3	11.3
	Amps (LRA), Comp. 1	240	240	240	130	130	130	93.7	93.7	93.7
	HP, Compressor 2	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 2	28.2	28.2	28.2	14.7	14.7	14.7	11.3	11.3	11.3
	Amps (LRA), Comp. 2	240	240	240	130	130	130	93.7	93.7	93.7
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	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	11	11
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	5	5	7.5	5	5	7.5	5	5	7.5
	Amps (FLA, each)	13.6	13.6	21	6.3	6.3	9.6	5.1	5.1	7.7
	Amps (LRA, each)	95	95	127	47.5	47.5	63.5	38.0	38.0	50.8

ELECTRICAL DATA – RACG2T SERIES WITHOUT POWERED EXHAUST

		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	414-506	517-633	517-633	517-633
	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	144/144	151/151	151/151	59	62	62	47	49	49
	Minimum Overcurrent Protection Device Size	175/175	175/175	175/175	70	70	70	60	60	60
	Maximum Overcurrent Protection Device Size	175/175	175/175	175/175	70	70	70	60	60	60
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 1	48.1	48.1	48.1	18.6	18.6	18.6	14.7	14.7	14.7
	Amps (LRA), Comp. 1	245	245	245	125	125	125	100	100	100
	HP, Compressor 2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 2	48.1	48.1	48.1	18.6	18.6	18.6	14.7	14.7	14.7
	Amps (LRA), Comp. 2	245	245	245	125	125	125	100	100	100
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	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	11	11
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	7.5	10	10	7.5	10	10	7.5	10	10
	Amps (FLA, each)	21	27	27	9.6	12.5	12.5	7.7	10	10
	Amps (LRA, each)	127	152	152	63.5	76	76	50.8	60.8	60.8

ELECTRICAL DATA – RACG2T SERIES WITHOUT POWERED EXHAUST

		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	414-506	517-633	517-633	517-633
	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	149/149	155/155	155/155	60	63	63	49	51	51
	Minimum Overcurrent Protection Device Size	175/175	175/175	175/175	70	70	70	60	60	60
	Maximum Overcurrent Protection Device Size	175/175	200/200	200/200	70	80	80	60	60	60
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 1	48.1	48.1	48.1	18.6	18.6	18.6	14.7	14.7	14.7
	Amps (LRA), Comp. 1	245	245	245	125	125	125	100	100	100
	HP, Compressor 2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 2	48.1	48.1	48.1	18.6	18.6	18.6	14.7	14.7	14.7
	Amps (LRA), Comp. 2	245	245	245	125	125	125	100	100	100
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 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	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	11	11
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	7.5	10	10	7.5	10	10	7.5	10	10
	Amps (FLA, each)	21	27	27	9.6	12.5	12.5	7.7	10	10
	Amps (LRA, each)	127	152	152	63.5	76	76	50.8	60.8	60.8

ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T180

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T180ACF	NONE*	—/—	—/—	76/76	100/100	—	—	76/76	100/100
	DG18CP	13.5/18.0	37.5/43.3	76/76	100/100	47/55	50/60	76/76	100/100
	DG36CP	27.0/36.0	75.0/86.6	107/122	110/125	94/109	100/110	76/76	100/100
	DG54CP	40.6/54.0	112.6/129.9	154/176	175/200	141/163	150/175	76/76	100/100
(-)ACG2T180ACG	NONE*	—/—	—/—	82/82	100/100	—	—	82/82	100/100
	DG18CP	13.5/18.0	37.5/43.3	82/82	100/100	47/55	50/60	82/82	100/100
	DG36CP	27.0/36.0	75.0/86.6	115/130	125/150	94/109	100/110	82/82	100/100
	DG54CP	40.6/54.0	112.6/129.9	162/184	175/200	141/163	150/175	82/82	100/100
(-)ACG2T180ACH	NONE*	—/—	—/—	82/82	100/100	—	—	82/82	100/100
	DG18CP	13.5/18.0	37.5/43.3	82/82	100/100	47/55	50/60	82/82	100/100
	DG36CP	27.0/36.0	75.0/86.6	115/130	125/150	94/109	100/110	82/82	100/100
	DG54CP	40.6/54.0	112.6/129.9	162/184	175/200	141/163	150/175	82/82	100/100

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T180ADF	NONE*	—	—	39	50	—	—	39	50
	DG18DNV	18	21.7	39	50	28	30	39	50
	DG36DNV	36	43.3	61	70	55	60	39	50
	DG54DNV	54	64.9	88	90	82	90	39	50
(-)ACG2T180ADG	NONE*	—	—	41	50	—	—	41	50
	DG18DNV	18	21.7	41	50	28	30	41	50
	DG36DNV	36	43.3	64	70	55	60	41	50
	DG54DNV	54	64.9	91	100	82	90	41	50
(-)ACG2T180ADH	NONE*	—	—	41	50	—	—	41	50
	DG18DNV	18	21.7	41	50	28	30	41	50
	DG36DNV	36	43.3	64	70	55	60	41	50
	DG54DNV	54	64.9	91	100	82	90	41	50



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T180 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T180AYF	NONE*	—	—	28	35	—	—	28	35
	DG18JT	18	17.3	28	35	22	25	28	35
	DG36JT	36	34.6	49	50	44	45	28	35
	DG54JT	54	52	70	70	65	70	28	35
(-)ACG2T180AYG	NONE*	—	—	31	35	—	—	31	35
	DG18JT	18	17.3	31	35	22	25	31	35
	DG36JT	36	34.6	51	60	44	45	31	35
	DG54JT	54	52	73	80	65	70	31	35
(-)ACG2T180AYH	NONE*	—	—	31	35	—	—	31	35
	DG18JT	18	17.3	31	35	22	25	31	35
	DG36JT	36	34.6	51	60	44	45	31	35
	DG54JT	54	52	73	80	65	70	31	35



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T180

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T180ACF	NONE*	—/—	—/—	80/80	100/100	—	—	80/80	100/100
	DG18CP	13.5/18.0	37.5/43.3	80/80	100/100	47/55	50/60	80/80	100/100
	DG36CP	27.0/36.0	75.0/86.6	112/128	125/150	94/109	100/110	80/80	100/100
	DG54CP	40.6/54.0	112.6/129.9	159/182	175/200	141/163	150/175	80/80	100/100
(-)ACG2T180ACG	NONE*	—/—	—/—	86/86	110/110	—	—	86/86	110/110
	DG18CP	13.5/18.0	37.5/43.3	86/86	110/110	47/55	50/60	86/86	110/110
	DG36CP	27.0/36.0	75.0/86.6	120/135	125/150	94/109	100/110	86/86	110/110
	DG54CP	40.6/54.0	112.6/129.9	167/190	175/200	141/163	150/175	86/86	110/110
(-)ACG2T180ACH	NONE*	—/—	—/—	86/86	110/110	—	—	86/86	110/110
	DG18CP	13.5/18.0	37.5/43.3	86/86	110/110	47/55	50/60	86/86	110/110
	DG36CP	27.0/36.0	75.0/86.6	120/135	125/150	94/109	100/110	86/86	110/110
	DG54CP	40.6/54.0	112.6/129.9	167/190	175/200	141/163	150/175	86/86	110/110

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T180ADF	NONE*	—	—	40	50	—	—	40	50
	DG18DNV	18	21.7	40	50	28	30	40	50
	DG36DNV	36	43.3	62	70	55	60	40	50
	DG54DNV	54	64.9	89	90	82	90	40	50
(-)ACG2T180ADG	NONE*	—	—	43	50	—	—	43	50
	DG18DNV	18	21.7	43	50	28	30	43	50
	DG36DNV	36	43.3	66	70	55	60	43	50
	DG54DNV	54	64.9	93	100	82	90	43	50
(-)ACG2T180ADH	NONE*	—	—	43	50	—	—	43	50
	DG18DNV	18	21.7	43	50	28	30	43	50
	DG36DNV	36	43.3	66	70	55	60	43	50
	DG54DNV	54	64.9	93	100	82	90	43	50



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T180 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T180AYF	NONE*	—	—	30	35	—	—	30	35
	DG18JT	18	17.3	30	35	22	25	30	35
	DG36JT	36	34.6	50	60	44	45	30	35
	DG54JT	54	52	72	80	65	70	30	35
(-)ACG2T180AYG	NONE*	—	—	32	40	—	—	32	40
	DG18JT	18	17.3	32	40	22	25	32	40
	DG36JT	36	34.6	53	60	44	45	32	40
	DG54JT	54	52	75	80	65	70	32	40
(-)ACG2T180AYH	NONE*	—	—	32	40	—	—	32	40
	DG18JT	18	17.3	32	40	22	25	32	40
	DG36JT	36	34.6	53	60	44	45	32	40
	DG54JT	54	52	75	80	65	70	32	40



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T210

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T210ACF	NONE*	—/—	—/—	84/84	110/110	—	—	84/84	110/110
	DG36CP	27.0/36.0	75.0/86.6	107/122	110/125	94/109	100/110	84/84	110/110
	DG54CP	40.6/54.0	112.6/129.9	154/176	175/200	141/163	150/175	84/84	110/110
	DG72CP	54.1/72.0	150.1/173.2	201/230	225/250	188/217	200/225	84/84	110/110
(-)ACG2T210ACG	NONE*	—/—	—/—	90/90	110/110	—	—	90/90	110/110
	DG36CP	27.0/36.0	75.0/86.6	115/130	125/150	94/109	100/110	90/90	110/110
	DG54CP	40.6/54.0	112.6/129.9	162/184	175/200	141/163	150/175	90/90	110/110
	DG72CP	54.1/72.0	150.1/173.2	209/238	225/250	188/217	200/225	90/90	110/110
(-)ACG2T210ACH	NONE*	—/—	—/—	98/98	110/110	—	—	98/98	110/110
	DG36CP	27.0/36.0	75.0/86.6	124/139	125/150	94/109	100/110	98/98	110/110
	DG54CP	40.6/54.0	112.6/129.9	171/193	175/200	141/163	150/175	98/98	110/110
	DG72CP	54.1/72.0	150.1/173.2	218/247	225/250	188/217	200/225	98/98	110/110

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T210ADF	NONE*	—	—	39	50	—	—	39	50
	DG36DNV	36	43.3	61	70	55	60	39	50
	DG54DNV	54	64.9	88	90	82	90	39	50
	DG72DNV	72	86.6	115	125	109	110	39	50
(-)ACG2T210ADG	NONE*	—	—	42	50	—	—	42	50
	DG36DNV	36	43.3	64	70	55	60	42	50
	DG54DNV	54	64.9	91	100	82	90	42	50
	DG72DNV	72	86.6	118	125	109	110	42	50
(-)ACG2T210ADH	NONE*	—	—	46	50	—	—	46	50
	DG36DNV	36	43.3	68	70	55	60	46	50
	DG54DNV	54	64.9	95	100	82	90	46	50
	DG72DNV	72	86.6	122	125	109	110	46	50



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T210 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T210AYF	NONE*	—	—	30	35	—	—	30	35
	DG36JT	36	34.6	49	50	44	45	30	35
	DG54JT	54	52	70	70	65	70	30	35
	DG72JT	72	69.3	92	100	87	90	30	35
(-)ACG2T210AYG	NONE*	—	—	33	40	—	—	33	40
	DG36JT	36	34.6	51	60	44	45	33	40
	DG54JT	54	52	73	80	65	70	33	40
	DG72JT	72	69.3	95	100	87	90	33	40
(-)ACG2T210AYH	NONE*	—	—	35	40	—	—	35	40
	DG36JT	36	34.6	55	60	44	45	35	40
	DG54JT	54	52	77	80	65	70	35	40
	DG72JT	72	69.3	98	100	87	90	35	40

ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T210

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T210ACF	NONE*	—/—	—/—	89/89	110/110	—	—	89/89	110/110
	DG36CP	27.0/36.0	75.0/86.6	112/128	125/150	94/109	100/110	89/89	110/110
	DG54CP	40.6/54.0	112.6/129.9	159/182	175/200	141/163	150/175	89/89	110/110
	DG72CP	54.1/72.0	150.1/173.2	206/236	225/250	188/217	200/225	89/89	110/110
(-)ACG2T210ACG	NONE*	—/—	—/—	95/95	110/110	—	—	95/95	110/110
	DG36CP	27.0/36.0	75.0/86.6	120/135	125/150	94/109	100/110	95/95	110/110
	DG54CP	40.6/54.0	112.6/129.9	167/190	175/200	141/163	150/175	95/95	110/110
	DG72CP	54.1/72.0	150.1/173.2	214/244	225/250	188/217	200/225	95/95	110/110
(-)ACG2T210ACH	NONE*	—/—	—/—	102/102	125/125	—	—	102/102	125/125
	DG36CP	27.0/36.0	75.0/86.6	129/145	150/150	94/109	100/110	102/102	125/125
	DG54CP	40.6/54.0	112.6/129.9	176/199	200/200	141/163	150/175	102/102	125/125
	DG72CP	54.1/72.0	150.1/173.2	223/253	225/300	188/217	200/225	102/102	125/125

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T210ADF	NONE*	—	—	41	50	—	—	41	50
	DG36DNV	36	43.3	62	70	55	60	41	50
	DG54DNV	54	64.9	89	90	82	90	41	50
	DG72DNV	72	86.6	116	125	109	110	41	50
(-)ACG2T210ADG	NONE*	—	—	44	50	—	—	44	50
	DG36DNV	36	43.3	66	70	55	60	44	50
	DG54DNV	54	64.9	93	100	82	90	44	50
	DG72DNV	72	86.6	120	125	109	110	44	50
(-)ACG2T210ADH	NONE*	—	—	47	50	—	—	47	50
	DG36DNV	36	43.3	70	70	55	60	47	50
	DG54DNV	54	64.9	97	100	82	90	47	50
	DG72DNV	72	86.6	124	125	109	110	47	50



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T210 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T210AYF	NONE*	—	—	32	40	—	—	32	40
	DG36JT	36	34.6	50	60	44	45	32	40
	DG54JT	54	52	72	80	65	70	32	40
	DG72JT	72	69.3	94	100	87	90	32	40
(-)ACG2T210AYG	NONE*	—	—	34	40	—	—	34	40
	DG36JT	36	34.6	53	60	44	45	34	40
	DG54JT	54	52	75	80	65	70	34	40
	DG72JT	72	69.3	97	100	87	90	34	40
(-)ACG2T210AYH	NONE*	—	—	37	45	—	—	37	45
	DG36JT	36	34.6	57	60	44	45	37	45
	DG54JT	54	52	79	80	65	70	37	45
	DG72JT	72	69.3	100	110	87	90	37	45



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T240

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T240ACF	NONE*	—/—	—/—	92/92	110/110	—	—	92/92	110/110
	DG36CP	27.0/36.0	75.0/86.6	115/130	125/150	94/109	100/110	92/92	110/110
	DG54CP	40.6/54.0	112.6/129.9	162/184	175/200	141/163	150/175	92/92	110/110
	DG72CP	54.1/72.0	150.1/173.2	209/238	225/250	188/217	200/225	92/92	110/110
(-)ACG2T240ACG	NONE*	—/—	—/—	92/92	110/110	—	—	92/92	110/110
	DG36CP	27.0/36.0	75.0/86.6	115/130	125/150	94/109	100/110	92/92	110/110
	DG54CP	40.6/54.0	112.6/129.9	162/184	175/200	141/163	150/175	92/92	110/110
	DG72CP	54.1/72.0	150.1/173.2	209/238	225/250	188/217	200/225	92/92	110/110
(-)ACG2T240ACH	NONE*	—/—	—/—	99/99	125/125	—	—	99/99	125/125
	DG36CP	27.0/36.0	75.0/86.6	124/139	125/150	94/109	100/110	99/99	125/125
	DG54CP	40.6/54.0	112.6/129.9	171/193	175/200	141/163	150/175	99/99	125/125
	DG72CP	54.1/72.0	150.1/173.2	218/247	225/250	188/217	200/225	99/99	125/125

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T240ADF	NONE*	—	—	47	60	—	—	47	60
	DG36DNV	36	43.3	64	70	55	60	47	60
	DG54DNV	54	64.9	91	100	82	90	47	60
	DG72DNV	72	86.6	118	125	109	110	47	60
(-)ACG2T240ADG	NONE*	—	—	47	60	—	—	47	60
	DG36DNV	36	43.3	64	70	55	60	47	60
	DG54DNV	54	64.9	91	100	82	90	47	60
	DG72DNV	72	86.6	118	125	109	110	47	60
(-)ACG2T240ADH	NONE*	—	—	50	60	—	—	50	60
	DG36DNV	36	43.3	68	70	55	60	50	60
	DG54DNV	54	64.9	95	100	82	90	50	60
	DG72DNV	72	86.6	122	125	109	110	50	60



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T240 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T240AYF	NONE*	—	—	36	45	—	—	36	45
	DG36JT	36	34.6	51	60	44	45	36	45
	DG54JT	54	52	73	80	65	70	36	45
	DG72JT	72	69.3	95	100	87	90	36	45
(-)ACG2T240AYG	NONE*	—	—	36	45	—	—	36	45
	DG36JT	36	34.6	51	60	44	45	36	45
	DG54JT	54	52	73	80	65	70	36	45
	DG72JT	72	69.3	95	100	87	90	36	45
(-)ACG2T240AYH	NONE*	—	—	39	50	—	—	39	50
	DG36JT	36	34.6	55	60	44	45	39	50
	DG54JT	54	52	77	80	65	70	39	50
	DG72JT	72	69.3	98	100	87	90	39	50



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T240

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T240ACF	NONE*	—/—	—/—	96/96	110/110	—	—	96/96	110/110
	DG36CP	27.0/36.0	75.0/86.6	120/135	125/150	94/109	100/110	96/96	110/110
	DG54CP	40.6/54.0	112.6/129.9	167/190	175/200	141/163	150/175	96/96	110/110
	DG72CP	54.1/72.0	150.1/173.2	214/244	225/250	188/217	200/225	96/96	110/110
(-)ACG2T240ACG	NONE*	—/—	—/—	96/96	110/110	—	—	96/96	110/110
	DG36CP	27.0/36.0	75.0/86.6	120/135	125/150	94/109	100/110	96/96	110/110
	DG54CP	40.6/54.0	112.6/129.9	167/190	175/200	141/163	150/175	96/96	110/110
	DG72CP	54.1/72.0	150.1/173.2	214/244	225/250	188/217	200/225	96/96	110/110
(-)ACG2T240ACH	NONE*	—/—	—/—	104/104	125/125	—	—	104/104	125/125
	DG36CP	27.0/36.0	75.0/86.6	129/145	150/150	94/109	100/110	104/104	125/125
	DG54CP	40.6/54.0	112.6/129.9	176/199	200/200	141/163	150/175	104/104	125/125
	DG72CP	54.1/72.0	150.1/173.2	223/253	225/300	188/217	200/225	104/104	125/125

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T240ADF	NONE*	—	—	48	60	—	—	48	60
	DG36DNV	36	43.3	66	70	55	60	48	60
	DG54DNV	54	64.9	93	100	82	90	48	60
	DG72DNV	72	86.6	120	125	109	110	48	60
(-)ACG2T240ADG	NONE*	—	—	48	60	—	—	48	60
	DG36DNV	36	43.3	66	70	55	60	48	60
	DG54DNV	54	64.9	93	100	82	90	48	60
	DG72DNV	72	86.6	120	125	109	110	48	60
(-)ACG2T240ADH	NONE*	—	—	52	60	—	—	52	60
	DG36DNV	36	43.3	70	70	55	60	52	60
	DG54DNV	54	64.9	97	100	82	90	52	60
	DG72DNV	72	86.6	124	125	109	110	52	60



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T240 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T240AYF	NONE*	—	—	38	45	—	—	38	45
	DG36JT	36	34.6	53	60	44	45	38	45
	DG54JT	54	52	75	80	65	70	38	45
	DG72JT	72	69.3	97	100	87	90	38	45
(-)ACG2T240AYG	NONE*	—	—	38	45	—	—	38	45
	DG36JT	36	34.6	53	60	44	45	38	45
	DG54JT	54	52	75	80	65	70	38	45
	DG72JT	72	69.3	97	100	87	90	38	45
(-)ACG2T240AYH	NONE*	—	—	41	50	—	—	41	50
	DG36JT	36	34.6	57	60	44	45	41	50
	DG54JT	54	52	79	80	65	70	41	50
	DG72JT	72	69.3	100	110	87	90	41	50



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T300

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T300ACF	NONE*	—/—	—/—	144/144	175/175	—	—	144/144	175/175
	DG36CP	27.0/36.0	75.0/86.6	144/144	175/175	94/109	100/110	144/144	175/175
	DG54CP	40.6/54.0	112.6/129.9	171/193	175/200	141/163	150/175	144/144	175/175
	DG72CP	54.1/72.0	150.1/173.2	218/247	225/250	188/217	200/225	144/144	175/175
(-)ACG2T300ACG	NONE*	—/—	—/—	151/151	175/175	—	—	151/151	175/175
	DG36CP	27.0/36.0	75.0/86.6	151/151	175/175	94/109	100/110	151/151	175/175
	DG54CP	40.6/54.0	112.6/129.9	180/201	200/225	141/163	150/175	151/151	175/175
	DG72CP	54.1/72.0	150.1/173.2	227/255	250/300	188/217	200/225	151/151	175/175
(-)ACG2T300ACH	NONE*	—/—	—/—	151/151	175/175	—	—	151/151	175/175
	DG36CP	27.0/36.0	75.0/86.6	151/151	175/175	94/109	100/110	151/151	175/175
	DG54CP	40.6/54.0	112.6/129.9	180/201	200/225	141/163	150/175	151/151	175/175
	DG72CP	54.1/72.0	150.1/173.2	227/255	250/300	188/217	200/225	151/151	175/175

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T300ADF	NONE*	—	—	59	70	—	—	59	70
	DG36DNV	36	43.3	68	70	55	60	59	70
	DG54DNV	54	64.9	95	100	82	90	59	70
	DG72DNV	72	86.6	122	125	109	110	59	70
(-)ACG2T300ADG	NONE*	—	—	62	70	—	—	62	70
	DG36DNV	36	43.3	72	80	55	60	62	70
	DG54DNV	54	64.9	99	100	82	90	62	70
	DG72DNV	72	86.6	126	150	109	110	62	70
(-)ACG2T300ADH	NONE*	—	—	62	70	—	—	62	70
	DG36DNV	36	43.3	72	80	55	60	62	70
	DG54DNV	54	64.9	99	100	82	90	62	70
	DG72DNV	72	86.6	126	150	109	110	62	70



ELECTRIC HEATER KITS WITHOUT POWERED EXHAUST - RACG2T300 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T300AYF	NONE*	—	—	47	60	—	—	47	60
	DG36JT	36	34.6	55	60	44	45	47	60
	DG54JT	54	52	77	80	65	70	47	60
	DG72JT	72	69.3	98	100	87	90	47	60
(-)ACG2T300AYG	NONE*	—	—	49	60	—	—	49	60
	DG36JT	36	34.6	57	60	44	45	49	60
	DG54JT	54	52	79	80	65	70	49	60
	DG72JT	72	69.3	101	110	87	90	49	60
(-)ACG2T300AYH	NONE*	—	—	49	60	—	—	49	60
	DG36JT	36	34.6	57	60	44	45	49	60
	DG54JT	54	52	79	80	65	70	49	60
	DG72JT	72	69.3	101	110	87	90	49	60



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T300

208/230V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 208/230	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T300ACF	NONE*	—/—	—/—	149/149	175/175	—	—	149/149	175/175
	DG36CP	27.0/36.0	75.0/86.6	149/149	175/175	94/109	100/110	149/149	175/175
	DG54CP	40.6/54.0	112.6/129.9	176/199	200/200	141/163	150/175	149/149	175/175
	DG72CP	54.1/72.0	150.1/173.2	223/253	225/300	188/217	200/225	149/149	175/175
(-)ACG2T300ACG	NONE*	—/—	—/—	155/155	200/200	—	—	155/155	200/200
	DG36CP	27.0/36.0	75.0/86.6	155/155	200/200	94/109	100/110	155/155	200/200
	DG54CP	40.6/54.0	112.6/129.9	184/207	200/225	141/163	150/175	155/155	200/200
	DG72CP	54.1/72.0	150.1/173.2	231/261	250/300	188/217	200/225	155/155	200/200
(-)ACG2T300ACH	NONE*	—/—	—/—	155/155	200/200	—	—	155/155	200/200
	DG36CP	27.0/36.0	75.0/86.6	155/155	200/200	94/109	100/110	155/155	200/200
	DG54CP	40.6/54.0	112.6/129.9	184/207	200/225	141/163	150/175	155/155	200/200
	DG72CP	54.1/72.0	150.1/173.2	231/261	250/300	188/217	200/225	155/155	200/200

460V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 460	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T300ADF	NONE*	—	—	60	70	—	—	60	70
	DG36DNV	36	43.3	70	70	55	60	60	70
	DG54DNV	54	64.9	97	100	82	90	60	70
	DG72DNV	72	86.6	124	125	109	110	60	70
(-)ACG2T300ADG	NONE*	—	—	63	80	—	—	63	80
	DG36DNV	36	43.3	74	80	55	60	63	80
	DG54DNV	54	64.9	101	110	82	90	63	80
	DG72DNV	72	86.6	128	150	109	110	63	80
(-)ACG2T300ADH	NONE*	—	—	63	80	—	—	63	80
	DG36DNV	36	43.3	74	80	55	60	63	80
	DG54DNV	54	64.9	101	110	82	90	63	80
	DG72DNV	72	86.6	128	150	109	110	63	80



ELECTRIC HEATER KITS WITH POWERED EXHAUST - RACG2T300 (Con't.)

575V, THREE PHASE, 60 HZ, AUXILARY 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	Heater Kit			Air Conditioner (Including Heater Kits)		Heater Kit		Air Conditioner	
	Model No. RXJJ-	Rated Heater kW @ 575	FLA	Unit Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)	Min. Ckt. Ampacity	Max. Fuse Or Ckt. Bkr. Size (Ckt. Bkr. Must Be HACR Type For USA)
(-)ACG2T300AYF	NONE*	—	—	49	60	—	—	49	60
	DG36JT	36	34.6	57	60	44	45	49	60
	DG54JT	54	52	79	80	65	70	49	60
	DG72JT	72	69.3	100	110	87	90	49	60
(-)ACG2T300AYG	NONE*	—	—	51	60	—	—	51	60
	DG36JT	36	34.6	59	60	44	45	51	60
	DG54JT	54	52	81	90	65	70	51	60
	DG72JT	72	69.3	103	110	87	90	51	60
(-)ACG2T300AYH	NONE*	—	—	51	60	—	—	51	60
	DG36JT	36	34.6	59	60	44	45	51	60
	DG54JT	54	52	81	90	65	70	51	60
	DG72JT	72	69.3	103	110	87	90	51	60





Air

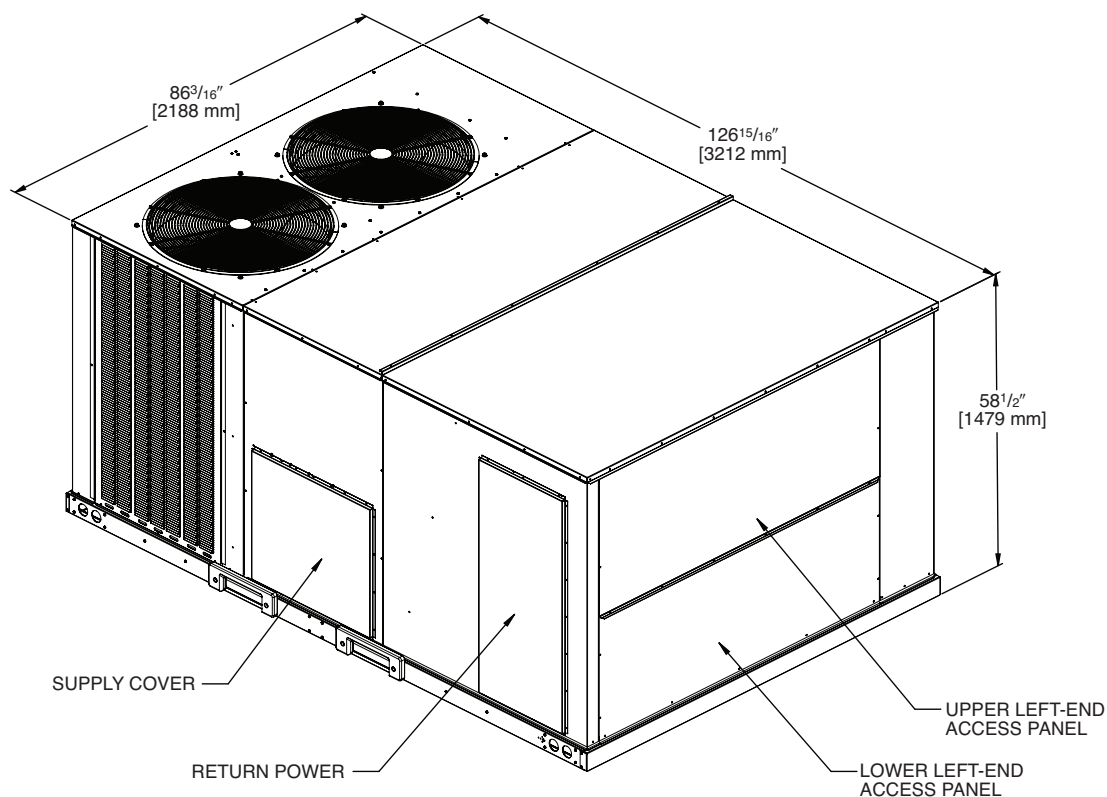


Illustration
ST-A1321-02

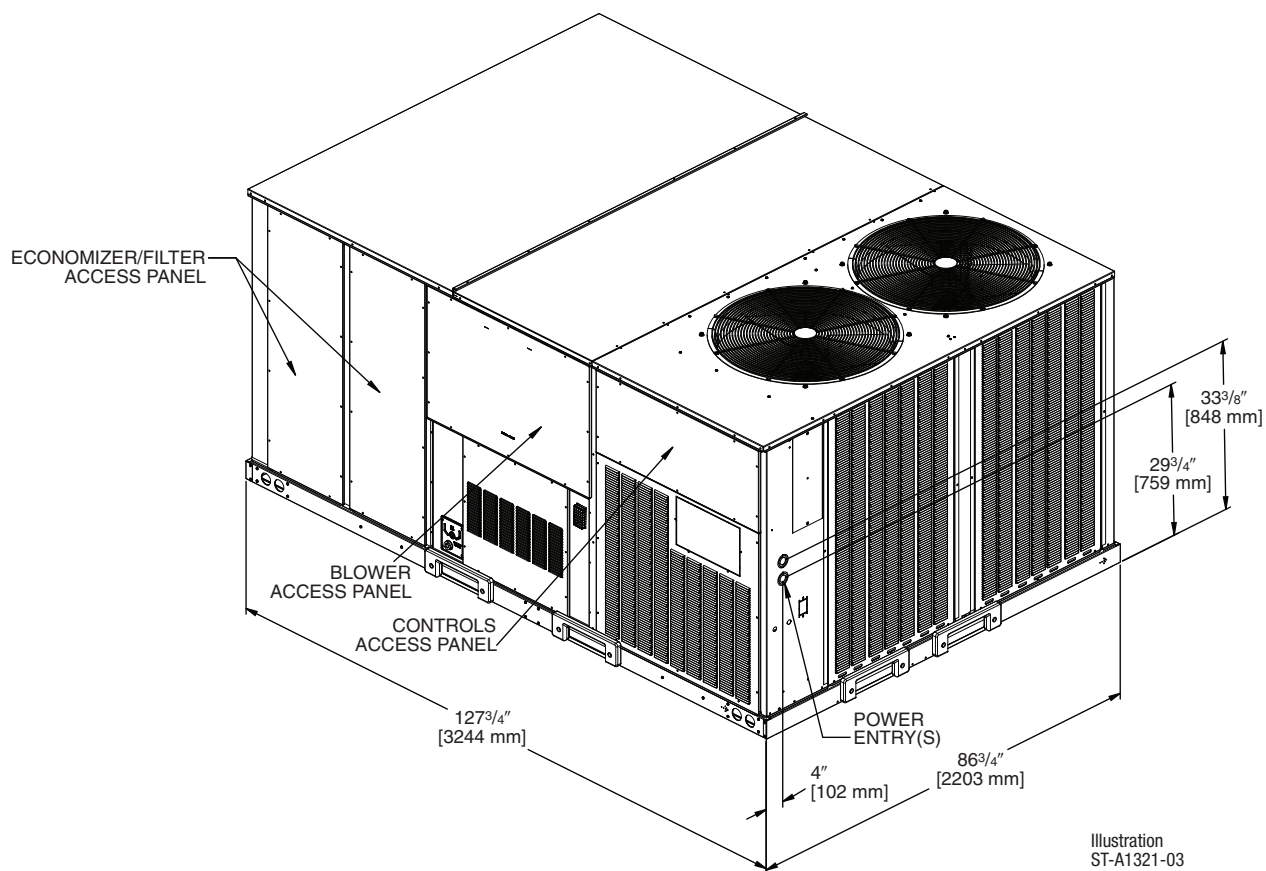


Illustration
ST-A1321-03

[] Designates Metric Conversions



SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

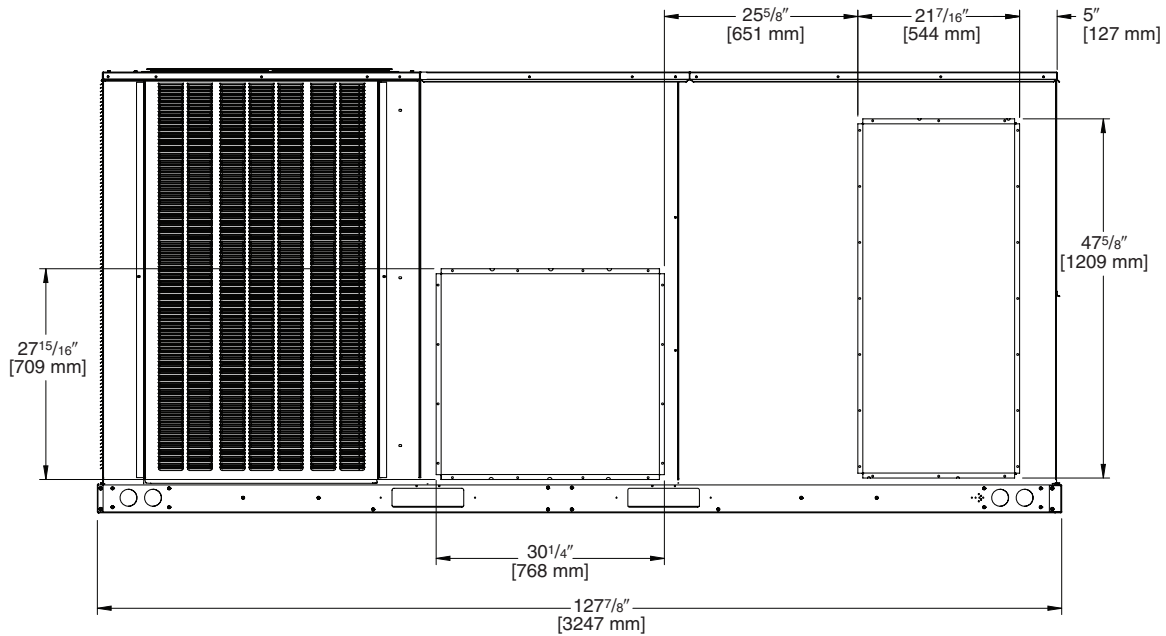


Illustration
ST-A1321-05

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS

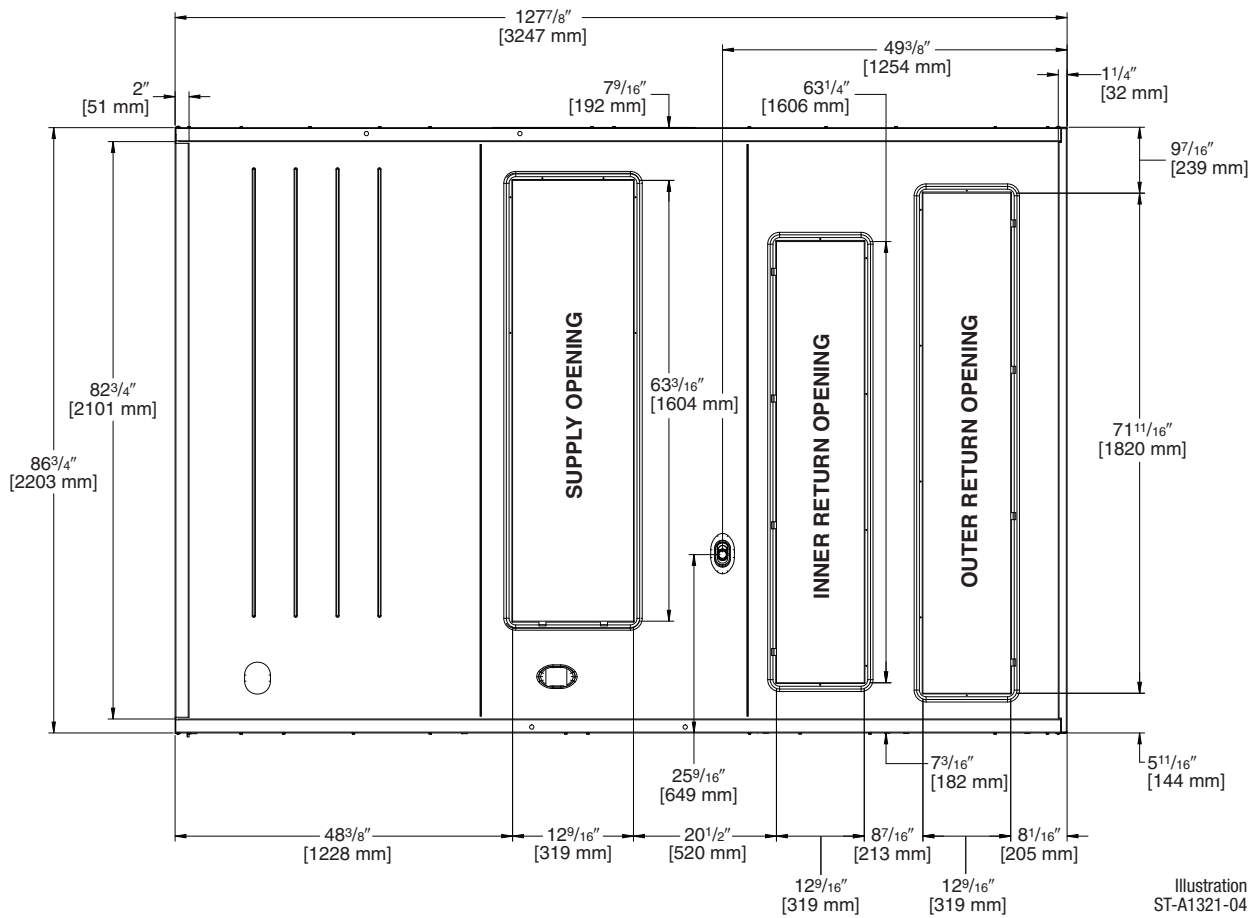
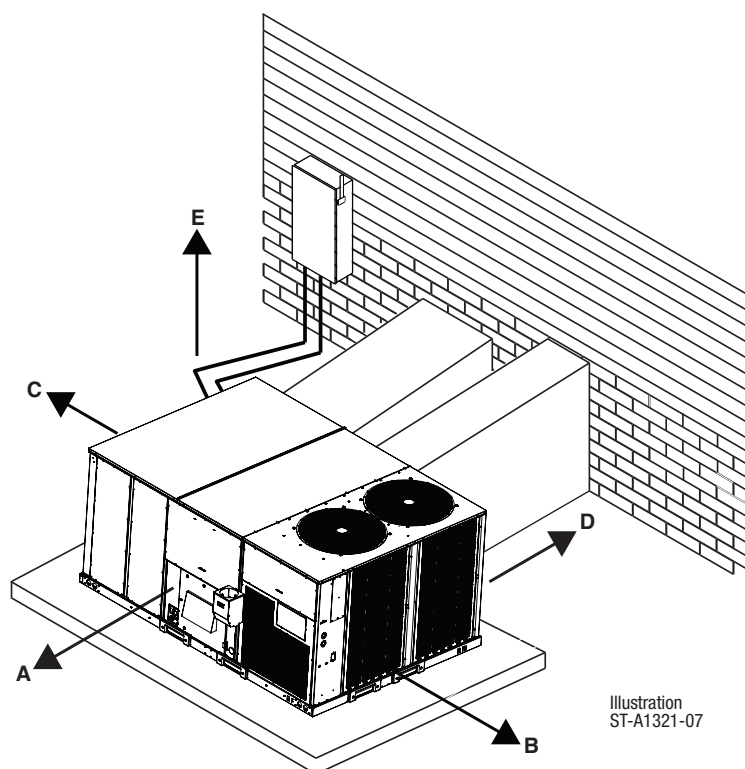
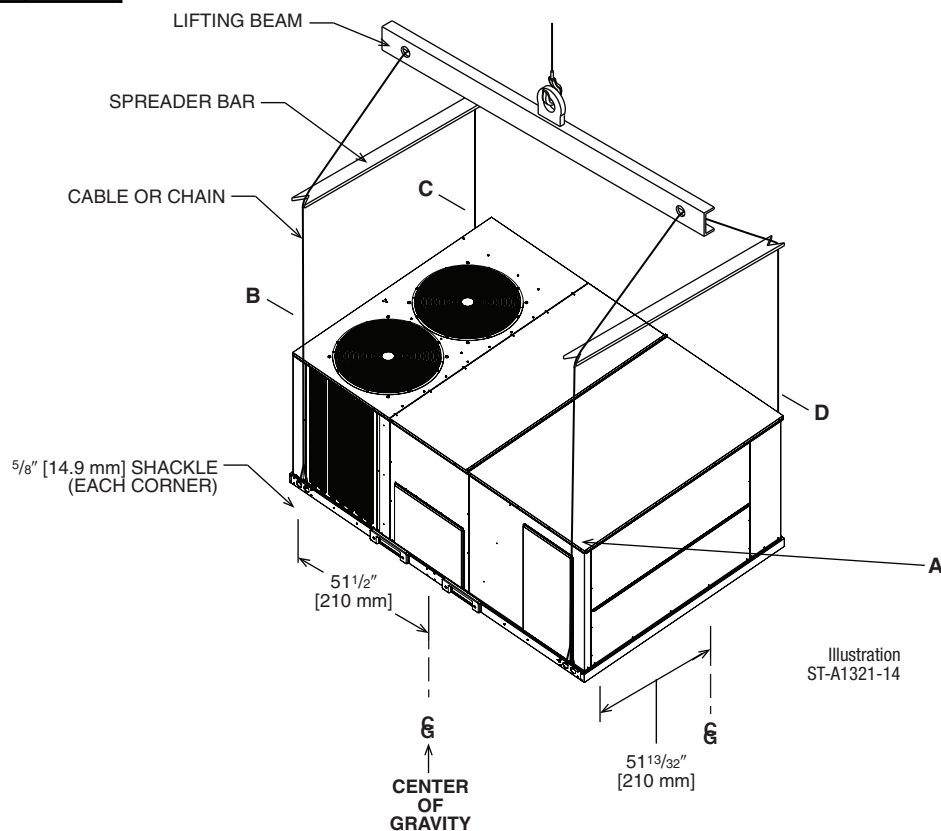


Illustration
ST-A1321-04

[] Designates Metric Conversions

WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
15.0 - 25.0 [52.8 - 87.9]	27%	14%	45%	14%



CLEARANCES

The following minimum clearances must be observed for proper unit performance and serviceability.

RECOMMENDED CLEARANCE IN. [mm]	LOCATION
80 [2.03]	A - FRONT CONTROLS
36 [0.91]	B - RIGHT SIDE
36 [0.91]	C - LEFT SIDE
24 [0.61]	D - BACK
60 [1.52]	E - TOP



FLUSH MOUNT ROOM TEMPERATURE SENSORS FOR NETWORKED DDC APPLICATIONS



ROOM TEMPERATURE SENSOR ZNS-101 with TIMED OVERRIDE BUTTON

10k Ω room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



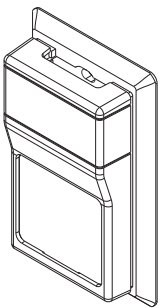
ROOM TEMPERATURE SENSOR ZNS-102 with TIMED OVERRIDE BUTTON and STATUS INDICATOR

10k Ω room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time. Status Indicator Light transmits ALARM flash code to occupied space.



ROOM TEMPERATURE SENSOR ZNS-103 with SETPOINT ADJUSTMENT and TIMED OVERRIDE BUTTON

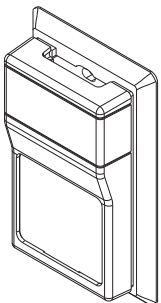
10k Ω room temperature sensor with setpoint adjustment transmits room temperature to DDC system along with desired occupied room temperature setpoint. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



ROOM HUMIDITY SENSOR

RHC-ZNS4

Transmits room relative humidity to DDC System.



ROOM TEMPERATURE AND RELATIVE HUMIDITY SENSOR

RHC-ZNS5

Transmits room temperature and relative humidity to DDC System.

COMMUNICATION CARDS

Field Installed



BACnet® COMMUNICATION CARD RXRX-AY01

The field installed BACnet® Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the BACnet Application Specific Controller device profile. The BACnet® Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network.



LonWorks® COMMUNICATION CARD RXRX-AY02

The field installed LonWorks® Communication Card allows the RTU-C unit controller to communicate 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. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks Network.

Guide Specifications RACG 180-300

You may copy this document directly into your building specification. This specification is written to comply with the 2016 version of the “master format” as published by the Construction Specification Institute. www.csinet.org.

ELECTRIC HEAT PACKAGED ROOFTOP

HVAC Guide Specifications

Size Range: 15 to 25 Nominal Tons

Section	Description
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23 06 80	Schedules for Decentralized HVAC Equipment
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23 06 80.13	Decentralized Unitary HVAC Equipment Schedule
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23 06 80.13.A.	Rooftop unit schedule
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1. Schedule is per the project specification requirements.

23 07 16	HVAC Equipment Insulation
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23 07 16.00.A.	Evaporator fan compartment:
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1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 LB density, flexible fiberglass insulation bonded with a phenolic binder, with aluminum foil facing on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
3. Insulation shall also be mechanically fastened with welded pin and retainer washer.

23 09 13	Instrumentation and Control Devices for HVAC
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23 09 13.23	Sensors and Transmitters:
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23 09 13.23.A.	Thermostats
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1. Thermostat must
 - a. Energize both “W” and “G” when calling for heat.
 - b. Have capability to energize 2 different stage of cooling, and 2 stage of heating.
 - c. Must include capability for occupancy scheduling.

23 09 33	Direct-Digital Control System for HVAC
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23 09 23.13	Decentralized, Rooftop Units:
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23 09 23.00.A.	RTU-C controller
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1. Shall be ASHRAE 62-2001 compliant.
2. Shall accept 18-32VAC input power.
3. Shall have an operating temperature range from -40°F (-40°C) to 125°F (52°C), 10%– 95% RH (non-condensing).
4. Controller shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, fire shutdown, return air enthalpy, fan status, remote time clock/door switch.
5. Shall accept a CO2 sensor in the conditioned space and be Demand Control Ventilation (DCV) ready.
6. Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, occupied.
7. Unit shall provide surge protection for the controller through a circuit breaker.
8. Shall have a field installed communication card allowing the unit to be able to communicate at a Baud rate of 19.2K or faster.
9. Shall have an LED display independently showing the status of activity on the communication bus, and processor operation.
10. Optional field installed BACnet® plug-in communication card which includes an EIA-485 protocol communication port, or an optional field installed LonWorks™ plug-in communications card.
11. Software upgrades will be accomplished by local download. Software upgrades through chip replacements are not allowed.
12. Shall be shock resistant in all planes to 5G peak, 11ms during operation, and 100G peak, 11ms during storage.
13. Shall be vibration resistant in all planes to 1.5G @ 20-300 Hz.
14. Shall support a bus length of 4000 ft max, 60 devices per 1000 ft section, and 1 RS-485 repeater per 1000 ft sections.
15. Unit shall be compatible with a programmable 24 volt thermostat.
16. Unit shall be compatible with a zone sensor and a mechanical or solid state time clock connected to the RTU-C.

23 09 33.00.B.	Open protocol, direct digital controller:
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1. Shall be ASHRAE 62-2001 compliant.
2. Shall accept 18-30VAC, 50-60Hz, and consumer 15VA or less power.
3. Shall have an operating temperature range from -40°F (-40°C) to 125°F (52°C), 10% - 90% RH (non-condensing).
4. Shall be natively equipped with Modbus
5. Shall have either a field installed BACnet® plug-in communication card which includes an EIA-485 protocol communication port, or a field installed LonWorks™ plug-in communications card.
6. The BACnet® plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes)

7. The LonWorks™ plug in communication card shall include the Echelon processor required for all Lon applications.
8. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers
9. Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
10. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
10. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/ humidity/ remote occupancy.
11. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust.
12. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.

23 09 33 Electric and Electronic Control System for HVAC

23 09 33.00 Decentralized, Rooftop Units:

23 09 33.00.A. General:

1. Shall be complete with self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side. Transformer shall have 100VA capabilities.
2. Shall utilize color-coded wiring.
3. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.
4. Unit control board shall be provided with 7 segment readout via LCD display for status and diagnostics.
5. Shall include a central control terminal board to provide connection points conveniently and safely for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, DDC control options, loss of charge, freeze sensor, high pressure switches.

23 09 33.00.B. Safeties:

1. Compressor over-temperature, over current.
2. Standard Low-pressure switch.
 - a. Units shall have low pressure, loss of charge automatic reset device that will shut off compressor when tripped.
 - b. Low pressure control:
 - Provides active protection in both heating and cooling modes at all outdoor ambient temperatures. The low pressure control is an automatic reset type and opens at approximately 15 psig and closes at approximately 40 psig. Operation is slightly different between cooling and heating modes.
3. Standard High-pressure switch.
 - a. Unit shall be equipped with high pressure switch device that will shut off compressor when tripped.
 - b. High Pressure control:
 - The high pressure control is an automatic reset type and opens at approximately 610 psig and closes at approximately 420 psig. The compressor and fan motor will stop when the high pressure control opens and will start again if the high side pressure drops to approximately 420 psig where the automatic reset high pressure control resets. If the high pressure control opens 3 times within a particular call for heating or cooling operation, the defrost control will lock out compressor and outdoor fan operation.
4. Freeze protection sensor comes standard on DDC models and is available as an option for Non-DDC models.
5. Automatic reset, motor thermal overload protector.

23 09 93 Sequence of Operations for HVAC Controls

23 09 93.00 INSERT SEQUENCE OF OPERATION

23 41 13 Panel Air Filters

23 41 13.00.A. Standard filter section

1. Consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
2. Unit will accept only 2-in. filters.
3. Filter face velocity shall not exceed 465 fpm at nominal airflows.
4. Filters shall be accessible through an access panel as described in the unit cabinet of the specification (23 81 19.13.H).

23 81 19 Self-Contained Air Conditioners

23 81 19.13 Small Capacity Self-Contained Air Conditioners

23 81 19.13.A. General

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing two hermetic scroll compressor(s) for cooling duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.

3. Unit shall use environmentally safe, R410A refrigerant.
4. Unit must be selected and installed in compliance with local, state, and federal codes.
5. Unit shall be installed in accordance with the manufacturer's instructions.
6. Model and serial data shall be reprinted inside the control box.

23 81 19.13.B. Quality Assurance

1. Unit meets ASHRAE 90.1 2019 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 340/360.
3. Unit shall be designed to conform to ASHRAE 15.
4. Unit shall be UL-tested and certified in accordance with ANSI Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit shall be designed in accordance with ISO 9001:2015 and shall be manufactured in a facility registered by ISO 9001:2015.
8. Roof curb shall be designed to conform to NRCA Standards.
9. Unit shall be subjected to an automated run test on the assembly line. The data for each unit will be stored at the factory and must be available upon request.
10. Unit shall be designed in accordance with UL Standard 1995, Fifth Ed. including tested to withstand rain.
11. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
12. One (1) year warranty for 3 phase, commercial application parts

23 81 19.13.C. Delivery, Storage, and Handling

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position.
4. Plastic bumpers for handling and protection of unit during transportation and storage.

23 81 19.13.E. Project Conditions

1. As specified in the contract.

23 81 19.13.F. Operating Characteristics

1. Unit shall be capable of starting and running at 125°F (52°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 340/360 at $\pm 10\%$ voltage.
2. Compressor with standard controls shall be capable of operation down to 50°F (10°C), ambient outdoor temperatures. Low ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 0°F (-17.7°C).
3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
4. Unit shall be shipped with both horizontal and vertical openings covered with insulated panels.
5. Unit shall be field convertible from vertical to horizontal configuration.
6. Unit shall have two vertical return openings to accommodate multiple curb configuration options [only one shall be utilized].

23 81 19.13.G. Electrical Requirements

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

23 81 19.13.H. Unit Cabinet

1. Unit cabinet shall be constructed of galvanized steel.
2. Unit cabinet exterior paint shall be: topcoat primer and paint .20 and .70 MIL dry fil thickness.
3. The sheet-metal cabinet shall be constructed of 18-gauge material for structural components with an underlying coat of G90.
4. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 340/360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2-in. thick, 1.6 lb density, flexible fiberglass insulation, foil faced on the air side.
5. Shall utilize uniform screw sizing.
6. Base of unit shall have a location for thru-the-base electrical connections (factory installed or field installed), standard.
7. Base Rail
 - a. Unit shall have base rails on a minimum of all sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - c. Holes shall be provided in the base rail for moving the rooftop for fork truck.
 - d. Base rail shall be a minimum of 14 gauge thickness.

8. Condensate pan and connections:
 - a. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning and maintenance.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall use a 1" NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
 - d. Shall be able to slide out completely.
 - e. Shall be separate from the coil.
9. Standard factory installed condensate overflow sensor
10. Top panel:
 - a. Shall be a single piece top panel over indoor section.
11. Electrical Connections:
 - a. All unit power wiring shall enter unit cabinet a single, factory-prepared, knockout location.
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the base pan.
 - ii. No base pan penetration, other than those authorized by the manufacturer, is permitted.
 - c. Factory standard phase-monitor comes standard on No- DDC models and is available as an option for DDC models.
12. Component access panels (standard)
 - a. Cabinet panels shall be easily opened for servicing.
 - b. Stainless steel metal hinges are optional on all doors.
 - c. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and filters shall have hinges with 1/4 turn fasteners on units with factory-installed hinged option.

23 81 19.13.J. Coils

1. Standard Aluminum/MicroChannel Coils:
 - a. Standard evaporator and condenser coils shall be aluminum.
 - b. MicroChannel intertwined coils for both evaporator and condenser coils.
 - c. Evaporator and condenser coils shall be leak tested to 150 psig, pressure tested to 400 psig, and qualified to burst test at 1,800 psi.
 - a. The Core Command board shall notify users of fault using two 7 segment displays.

23 81 19.13.K. Refrigerant Components

1. Refrigerant circuit shall include the following control, safety, and maintenance features:
 - a. TXV metering system shall prevent mal-distribution of two-phase refrigerant.
 - b. Thermal Expansion Valve (TXV).
 - c. Refrigerant filter drier.
 - d. Service gauge connections on suction, liquid and discharge lines.
 - e. Access panels can be removed without disrupting condenser air flow.
2. Compressors
 - a. Unit shall use two fully hermetic scroll compressor.
 - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - c. Compressors shall be internally protected from high discharge temperature conditions.
 - d. Compressors shall be protected from an over-temperature and over-ampereage conditions by an internal, motor overload device.
 - e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal and current overload and high pressure differential protection.
 - g. Crankcase heaters shall not be required for normal operating range.
 - h. Compressor lockout sensor on the unit controller is factory set at 35°F and is adjustable from 30°F (-1°C) to 50°F (10°C) and resets the cooling lockout at 5°F (+2.7°C) above the set point.

23 81 19.13.L. Filter Section

1. Filters access is specified in the unit cabinet section of this specification.
2. Filters shall be held in place by a sliding filter tray, facilitating easy removal and installation.
3. Shall consist of factory-installed, low velocity, throw-away 2-in. thick fiberglass filters.

4. Filter face velocity shall not exceed 365 fpm at nominal airflows.
5. Filters shall be standard, commercially available sizes.
6. Only one size filter per unit is allowed.

23 81 19.13.M. Evaporator Fan and Motor

1. Evaporator fan motor:
 - a. Shall have permanently lubricated bearings.
 - b. Shall have inherent automatic-reset thermal overload protection or circuit breaker.
 - c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
2. Belt-driven Evaporator Fan:
 - a. Belt drive shall include an adjustable-pitch motor pulley.
 - b. Shall use sealed, permanently lubricated ball-bearing type.
 - c. Blower fan shall be double-inlet type with forward curved blades.
 - d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.
3. Blower Assembly
 - a. Entire assembly shall be able to slide out completely including VFD, two blowers, and motor.
 - b. Shall be able to slide-out without the removal of the roof and condenser fan motors.

23 81 19.13.N. Condenser Fans and Motors

1. Condenser fan motors:
 - a. Shall be a totally enclosed motor.
 - b. Shall use permanently lubricated bearings.
 - c. Shall have inherent thermal overload protection with an automatic reset feature.
 - d. Shall use a shaft-up design.
2. Condenser Fans shall:
 - a. Shall be a direct-driven propeller type fan.
 - b. Shall have blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

23 81 19.13.O. Special Features

1. Integrated Economizers:
 - a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
 - b. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory installed option.
 - c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
 - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
 - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
 - f. Shall be equipped with low-leakage dampers, not to exceed 2% leakage at 1 in. wg pressure differential.
 - g. Shall be capable of introducing up to 100% outdoor air.
 - h. Shall be equipped with a barometric relief damper capable of relieving up to 35% return air, depending on the airflow.
 - i. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - j. Enthalpy sensor shall be provided as standard. Outdoor air sensor set point shall be adjustable and shall range from 40 to 100°F / 4 to 38°C. Additional sensor options shall be available as accessories.
 - k. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 70%, with a range of 0% to 100%.
 - l. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper set point.
 - m. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - n. Economizer controller shall accept a 2-10Vdc CO2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
 - o. Actuator shall be directly coupled to economizer gear. No linkage arms or control rods shall be acceptable.

- p. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
- q. Economizer wire harness will have provision for smoke detector available in supply and return options.
- 2. Two-Position Motorized Damper
 - a. Damper shall be a Two-Position Motorized Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
 - b. Damper shall include adjustable damper travel from 25% to 100% (full open).
 - c. Damper shall include single or dual blade, gear driven dampers and actuator motor.
 - d. Actuator shall be directly coupled to damper gear. No linkage arms or control rods shall be acceptable.
 - e. Damper will admit up to 100% outdoor air for applicable rooftop units.
 - f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
 - g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
 - h. Outside air hood shall include aluminum water entrainment filter.
- 3. Manual damper
 - a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year round ventilation.
- 4. Condenser Coil Hail Guard Assembly
 - a. Shall protect against damage from hail.
 - b. Shall be louvered style.
- 5. Convenience Outlet:
 - a. Non-Powered convenience outlet.
 - b. Outlet shall be powered from a separate 115-120v power source.
 - c. A transformer shall not be included.
 - d. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
 - e. Outlet shall include 15 amp GFI receptacle with independent fuse protection.
 - f. Outlet shall be accessible from outside the unit.
- 6. Propeller Power Exhaust:
 - a. Power exhaust shall be used in conjunction with an integrated economizer.
 - b. Configurable for vertical or horizontal installation.
 - c. Horizontal power exhaust shall be mounted in return ductwork.
 - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
 - e. Capable of constant volume.
- 7. Roof Curbs (Vertical):
 - a. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - b. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
 - c. Shall be available in heights of 14", 18", and 24".
- 8. Outdoor Air Enthalpy Sensor:
 - a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
- 9. Return Air Enthalpy Sensor:
 - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
- 10. Indoor Air Quality (CO2) Sensor:
 - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - b. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.
- 11. Smoke detectors:
 - a. Shall be a Four-Wire Controller and Detector.
 - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - c. Shall use magnet-activated test/reset sensor switches.
 - d. Shall have tool-less connection terminal access.



- e. Shall have a recessed momentary switch for testing and resetting the detector.
- f. Controller shall include:
 - One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
 - Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
 - One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station
 - Capable of direct connection to two individual detector modules.
 - Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.

12. Electric Heat:

a. Heating Section

- Heater element open coil resistance wire, nickel-chrome alloy, strung through ceramic insulators mounted on metal frame. Coil ends are staked and welded to terminal screw slots.
- Heater assemblies are provided with integral fusing for protection of internal heater circuits not exceeding 48 amps each. Auto reset thermo limit controls, magnetic heater contactors (24 v coil) and terminal block all mounted in electric heater control box (minimum 18 ga galvanized steel) attached to end of heater assembly.

26 29 23.12. Adjustable Frequency Drive

1. Unit shall be supplied with an electronic variable frequency drive for the supply air fan.
2. Drive shall be factory installed in an enclosed cabinet.
3. Drive shall meet UL Standard 95-5V.
4. The completed unit assembly shall be UL listed.
5. Drives are to be accessible through an access panel (optional hinged doors).
6. The unit manufacturer shall install all power and control wiring.
7. The supply air fan drive output shall be controlled by the factory installed main unit control system and drive status and operating speed shall be monitored and displayed at the blower.
8. Drive shall be programmed and factory run tested in the unit.
9. VFD shall be modular and designed for easy disconnect via wiring harness.

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Parts

3 Phase, Commercial Applications.....One (1) Year

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Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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