



Air

Package Air Conditioner  
RACD Series

The new degree of comfort.™

## Commercial 7.5-12.5 Ton Renaissance™ Line Package Air Conditioner



Climaproyectos

### **RACDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Standard VFD and optional HumidiDry® Technology  
ASHRAE 90.1-2013 Compliant Models

### **RACDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Optional VFD and HumidiDry® Technology  
ASHRAE 90.1-2007 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RACDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2007 Compliant Models



INTEGRATED AIR & WATER

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	Single-Stage Cooling	Two-Stage Cooling	2018 DOE Efficiency Standards Compliant	2023 DOE Efficiency Standards Compliant	VFD Technology	HumidiDry®
<i>Commercial Prestige® Series (RACDZT)</i>		X	X	X	X	X (Optional)
<i>Commercial Classic Plus® Series (RACDZS)</i>		X	X		X (Optional)	X (Optional)
<i>Commercial Classic® Series (RACDZR)</i>	X		X		Not Available	Not Available

## RACD 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
- Model RACDZR has a single-stage compressor
- Models RACDZS and RACDZT have two-stage compressor
- 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
- Two-piece control door
- 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 on Model RACDZT and optional on model RACDZS
- New product footprint with matching connections
- Improved factory lead times



## FACTORY INSTALLED OPTIONS:

- Louvered panels
- Hinged access doors
- PlusOne® HumidiDry® Dehumidification System (ZS/ZT)
- Low ambient/freeze stat
- Non-powered convenience outlet
- Economizer (Title 24 and ASHRAE 90.1 2013 Compliant)

- Supply and return smoke detector
- Return smoke detector
- ElectroFin® E-Coat for Microchannel Condenser Coil
- ClearControl™ Direct Digital Control (DDC)
- Comfort Alert/Phase monitor
- Vertical economizer

## FIELD INSTALLED ACCESSORY EQUIPMENT:

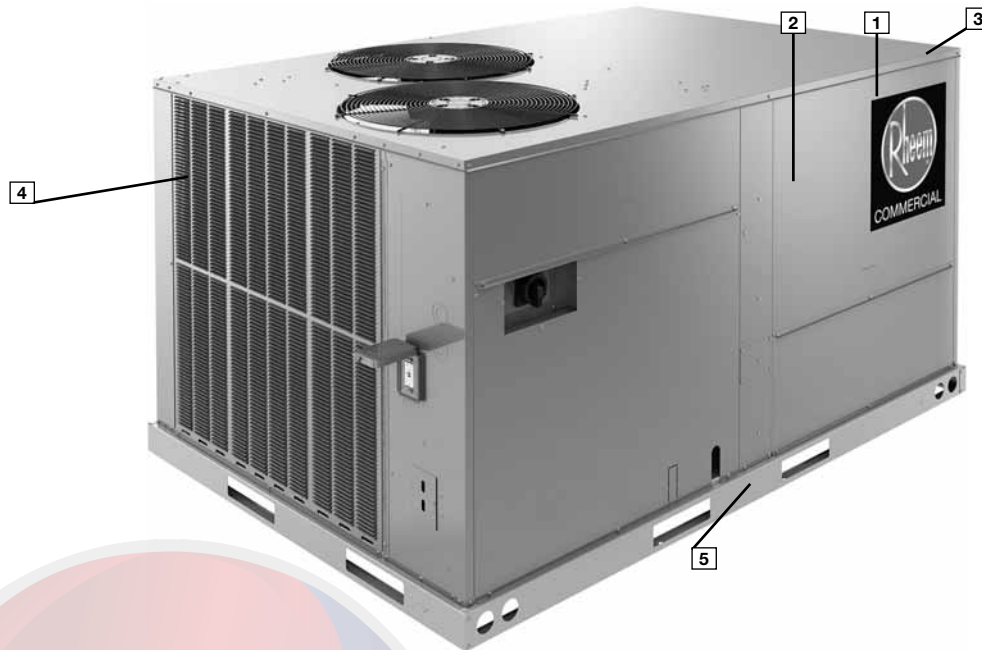
Accessory	Model Number	Factory Installation Available?
Economizer w/Single Enthalpy (Downflow)	RXRD-01MDDAM3	Yes
Economizer w/Single Enthalpy (Horizontal)	RXRD-01MDHAM3	No
Economizer-w/Single Enthalpy (Downflow) DDC	RXRD-01MDDBM3	Yes
Economizer w/Single Enthalpy (Horizontal) DDC	RXRD-01MDHBM3	No
Dual Enthalpy Kit	RXXR-BV01	No
Dual Enthalpy Kit DDC	RXXR-BV02	No
Carbon Dioxide Sensor (Wall Mount)	RXXR-AR02	No
Power Exhaust	RXXR-CDF01C	No
Power Exhaust	RXXR-CDF01D	No
Manual Fresh Air Damper	RXRF-ADA1	No
Motorized Fresh Air Damper	RXRF-ADB1	No
Motorized Fresh Air Damper (DDC)	RXRF-ADC1	No
Roofcurb, 14"	RXKG-DDD14	No
Roofcurb, 24"	RXKG-DDD24	No
Roofcurb Adapter	RXXR-DDCAE	No
Concentric Diffuser 7.5/8.5 Ton Flush	RXRN-AEF2000	No
Concentric Diffuser 10.0 Ton Flush	RXRN-AEF3415	No
Concentric Diffuser 12.5 Ton Flush	RXRN-AEF3618	No
Concentric Diffuser 7.5/8.5 Ton Drop	RXRN-AED2000	No
Concentric Diffuser 10.0 Ton Drop	RXRN-AED3415	No
Concentric Diffuser 12.5 Ton Drop	RXRN-AED3618	No
Concentric Adapter 7.5/8.5 Ton Drop	RXMC-DD01	No
Concentric Adapter 10 Ton Drop	RXMC-DD02	No
Concentric Adapter 12.5 Ton Drop	RXMC-DD03	No
Outdoor Coil Louver Kit - ACD/090/102/120	RXXR-ADD04A	Yes
Outdoor Coil Louver Kit - ACD150	RXXR-ADD04B	Yes
Unwired Convenience Outlet	RXXR-BN01	Yes
Unfused Service Disconnect	RXXR-BP01	Yes
Comfort Alert (1 Per Compressor)	RXXR-AZ01 DDC	Yes
Comfort Alert (1 Per Compressor)	RXXR-AZ02	Yes
BACnet Communication Card	RXXR-AY01	No

\*See single point wiring kit model nomenclature on page 83.

\*Variable Frequency Drive Kit model nomenclature on page 83.

Accessory	Model Number	Factory Installation Available?
LonWorks Communication Card	RXXR-AY02	No
Room Humidity Sensor	RHC-ZNS4	No
Room Temperature and Relative Humidity Sensor	RHC-ZNS5	No
Low-Ambient Control Kit	RXRZ-A04	Yes
Freeze Stat Kit	RXXR-AM01	Yes
Variable Frequency Drive Kit* *See model number break down below	RXXR-AC02	No
	RXXR-AC03	No
	RXXR-AC05	No
	RXXR-AD02	No
	RXXR-AD03	No
	RXXR-AD05	No
	RXXR-CC02	No
	RXXR-CC03	No
	RXXR-CC05	No
	RXXR-CD02	No
	RXXR-CD03	No
	RXXR-CD05	No
Electric Heater Kits	RXJJ-DD10CP	Yes
	RXJJ-DD15CP	Yes
	RXJJ-DD20CP	Yes
	RXJJ-DD30CP	Yes
	RXJJ-DD40CP	Yes
	RXJJ-DD10DNV	Yes
	RXJJ-DD15DNV	Yes
	RXJJ-DD20DNV	Yes
	RXJJ-DD30DNV	Yes
	RXJJ-DD40DNV	Yes
Single Point Wiring Kit*	RXJX-AC0605	No
	RXJX-AC0805	No
	RXJX-AD0605	No
	RXJX-AC0909	No
	RXJX-AD0609	No





### Cabinet and Foundation

Outwardly, the large *Rheem® Commercial Series* 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 one-piece 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 a standard overflow switch.



### Test Standards

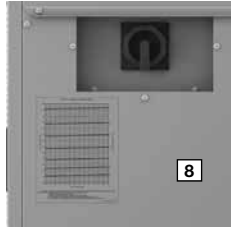
During development, each unit was tested to U.L. 1995, AHRI 340-360 as well as other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can be assured that when a Rheem package 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

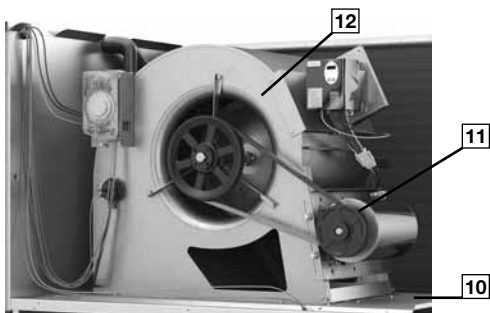
Located within the filter compartment, the Qwik-Change Flex-Fit Rack™ (9) allows easy changeover between 2" and 4" standard size and readily available filters.



## Blower Assembly

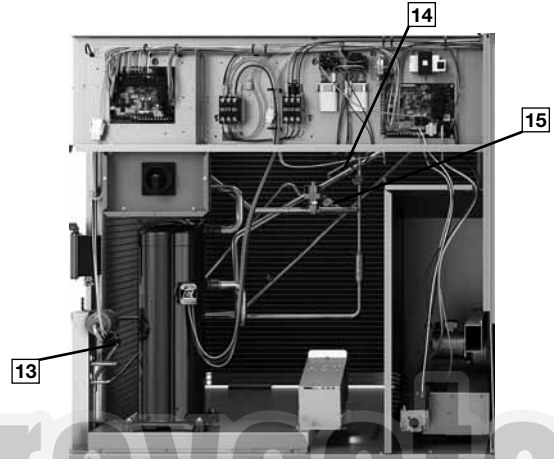
Removing three screws provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly™ (10) is incredibly easy to access and remove. This makes servicing internal components such as blower motor, TXV, and microchannel coil much easier. The entire assembly slides out by removing the 3/8" screws from the blower retention bracket. The adjustable motor pulley (11) 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 0 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 (12) 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.



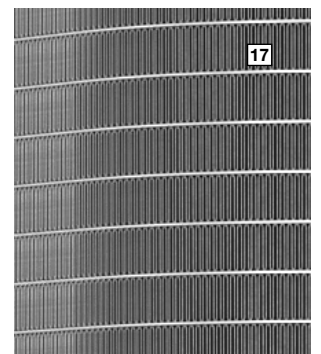
## High and Low Pressure Switches & Freeze Stat

High pressure (13) and low pressure (14) switches are standard. They are located in the outdoor section along with the low-ambient control (15). The optional Freeze Stat (16) (standard on models with ClearControl), is clipped onto the suction line in the blower compartment. The low ambient control allows the compressor to operate down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch shuts off the compressors if pressures exceeding 610 PSIG are detected. The low-pressure switch shuts off the compressors if low pressure 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.



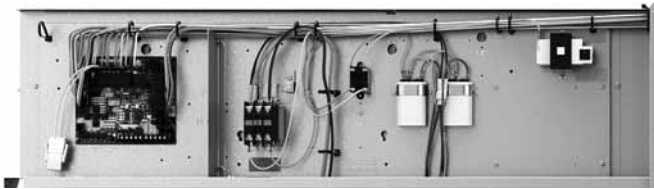
## MicroChannel Evaporator & TXV

The Microchannel Evaporator (17) is accessible through the blower compartment, and through the filter rack, to simplify cleaning. The evaporator uses microchannel technology for maximum heat transfer, light weight, fewer manually brazed connections and reduced refrigerant charge. The TXV metering device maintains superheat over a wide range of varying temperatures optimizing unit performance for all conditions.



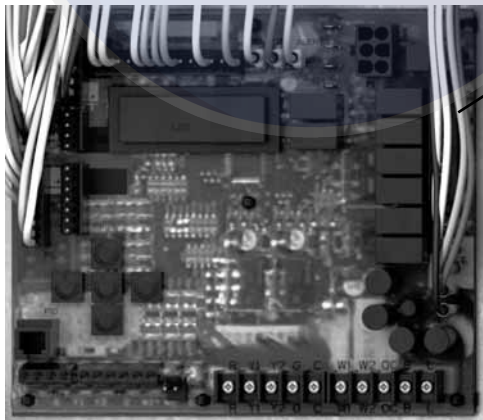
## Control Box

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.

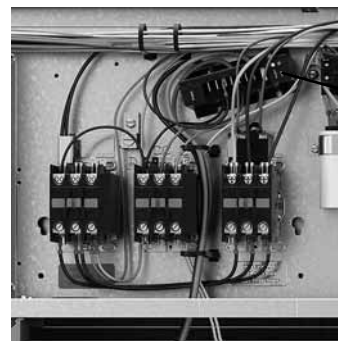


The RACD with the RTU-C is specifically designed to be applied in four distinct applications:

- 1. BACnet Communication** — The RACD 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 RACD 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 RACD 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 RACD 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, through the (BAS) network, or connected to the “L-Terminal” of a thermostat for notification.





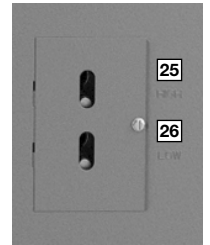
## Variable Frequency Drive

The supply fan Variable Frequency Drive (VFD) (22) optimizes energy usage year round by providing a lower speed for first stage cooling operation, improving IEER's over the conventional constant fan system. Operating in the constant fan mode at the reduced speed can use as little as 1/5 of the energy of a conventional constant fan system. Also, by operating at a lower speed on first stage cooling, up to 126% more moisture is removed, improving comfort during low load operation. VFD comes standard in ZT models and is a factory or field installed option in ZS models. The VFD supply fan factory option meets California Title 24 and ASHRAE 90.1-2016 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.



## External Lockable Gauge Ports

To the right left of the compressor compartment are the externally mounted lockable 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. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled. The high-voltage connection is terminated at the number 1 compressor contactor. The suggested mounting for the field-installed disconnect or circuit breaker is on the exterior side of the electrical control box.



proyectos



## Compressor

The compressor compartment houses the heart-beat of the unit. The scroll compressor (27) is known for its long life and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (28) to absorb the strain and stress that the starting torque, steady state operation, and shut-down cycle impose on the refrigerant tubing. ZS and ZT 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.



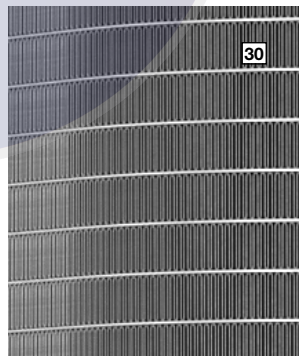
## Condenser Fans

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. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.



## 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 (32) for job configuration flexibility. The return air compartment can also contain an economizer. 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 (33) 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.



## HUMIDIDRY® SYSTEM FEATURES

HumidiDry® is Rheem's exclusive dehumidification package unit solution. It delivers maximum humidity control without compromising desired temperature set point for a high degree of comfort. HumidiDry maintains humidity levels at a desired set point when there's little or no demand for air conditioning. The HumidiDry rooftop unit is controlled by a thermostat and humidistat. The thermostat takes priority on single-stage system. When the thermostat is activated by temperatures that exceed its set point, HumidiDry operates like a standard rooftop unit. It can operate on first stage cooling when demand is low or at full capacity when air conditioning load is high. Unlike other rooftop or reheat units, HumidiDry is uniquely designed so the VFD (37) will operate at a low speed, increasing moisture removal during first-stage cooling operation. This provides initial defense for controlling humidity. When temperature is desirable but humidity exceeds the humidistat set point, the HumidiDry rooftop unit initiates a dehumidification cycle using a combination of hot gas and sub-cooled liquid reheat and the VFD operates at low speed. During this cycle, the HumidiDry rooftop unit delivers dry, neutral air. On a two-stage system, it is possible for both a thermostat and humidistat to register readings above set point. Under this condition, the system runs in the high stage dehumidification cycle, and the VFD operates on high speed. This provides dry conditioned air.

Figure 1 shows the refrigerant path during the normal cooling mode. The liquid refrigerant leaves the TXV with the sudden pressure drop causing the liquid to expand to a vapor and absorbing the heat from the supply air going through the evaporator coil. The refrigerant vapor then travels to the compressor where it is elevated to a higher pressure and temperature. The superheated refrigerant vapor next carries the heat to the outside coil where the heat is then rejected and the refrigerant condenses into a subcooled liquid where the process repeats itself.

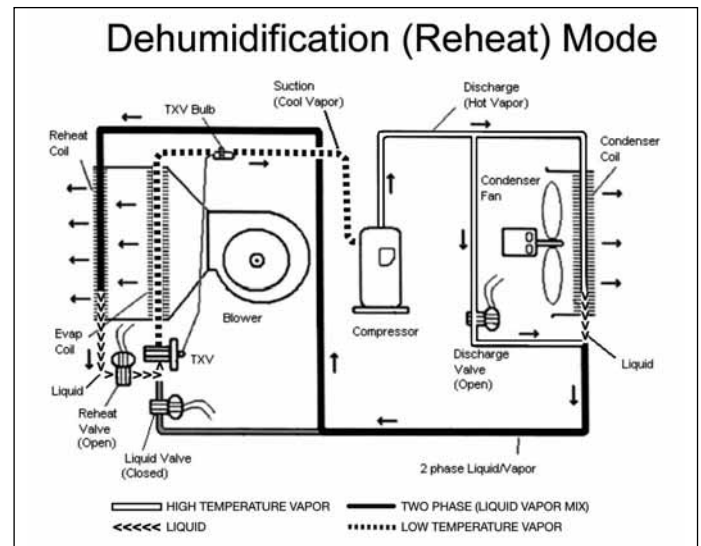
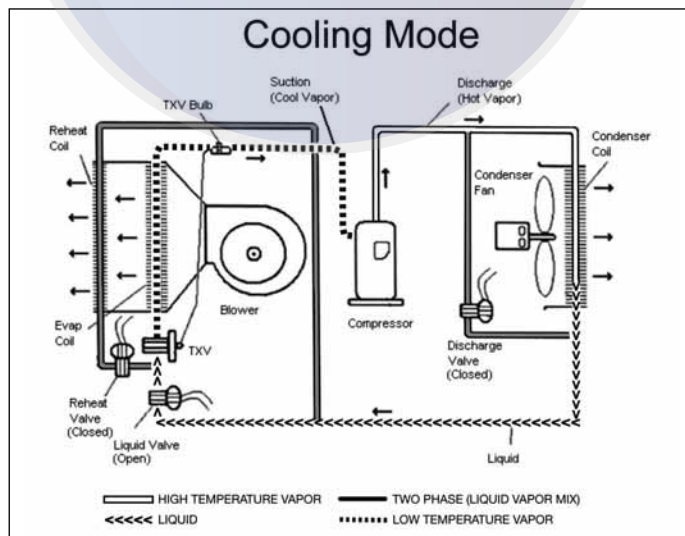


Figure 2 shows the refrigerant path during the reheat mode. When the reheat cycle is energized by the RTU-C, the reheat solenoid valve (38), downstream of the reheat coil (39), opens. The liquid solenoid valve (40), ahead of the TXV, closes. The discharge solenoid valve (41), in the compressor discharge line, opens. The liquid refrigerant leaves the TXV with the sudden pressure drop causing the liquid to expand to a vapor and absorbing the heat from the supply air going through the evaporator coil. The refrigerant vapor then travels to the compressor where it is elevated to a higher pressure and temperature. The refrigerant next carries the heat to a parallel path between the outside condenser coil and a bypass circuit. Some of the heat is rejected outdoors. The ratio of heat rejected outdoors versus indoors is controlled by an outdoor fan motor controller (OFMC) (42) that monitors the two phase refrigerant temperature (43) and varies the fan speed. This 2-phase refrigerant vapor is then sent to the reheat coil. As the refrigerant travels through the reheat coil it condenses into a subcooled liquid where the process repeats itself.



**R** **AC** **D** **ZT** **090** **A** **C** **A** **15** **2** **A** **A** **\*\*\***  
**1** **23** **4** **56** **789** **10** **11** **12** **13 14** **15** **16** **17** **18 19 20**

**1 – Brand**

R = Rheem

**2, 3 – Unit Type**

AC = Package AC

**4 – Cabinet Type**

D = Medium Commercial

**5, 6 – Series**

ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9 – Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

150 = 12.5 ton<sup>4</sup>

**10 – Major series**

A

**11 – Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12 – Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14 – Heat Capacity**

00 = No Heat

10 = 10kw

15 = 15kw

20 = 20kw

30 = 30kw

40 = 40kw

**15 – Number of stages**

0 = no stages

1 = 1 stage

2 = 2 stage

**16 – Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control & Comfort Alert

**17 – Minor series**

A

**18, 19, 20 – Option Code**

See next page

Notes:

1. ZT – can only select VFD drives (F, G, H) in character 12
2. ZS – can select any of the drive options in character 12
3. ZR – can only select standard drives (A, B, C) in character 12
4. ZR – not available for 12.5 ton models



## FACTORY INSTALLED OPTION CODES FOR RACD (7.5 TO 12.5 TON)

18					19					20			
LV = Louver protection					LF = Low Ambient / Freeze Stat					EC = Economizer			
RH = Reheat (HumidiDry®) <sup>1</sup> , only available with VFD					NP = Non-powered Convenience Outlet					SS = Supply Smoke			
HA = Hinged Access										RS = Return Smoke			
CC <sup>2</sup> = Coil Coating													
Option code character highlighted below					Option code character highlighted below					Option code character highlighted below			
<b>A</b>	None				<b>A</b>	None				<b>0</b>	None		
<b>B</b>	LV				<b>B</b>	LF				<b>1</b>	EC		
<b>C</b>	HA				<b>C</b>	NP				<b>2</b>	RS		
<b>D</b>	LV	HA			<b>D</b>	LF	NP			<b>3</b>	EC	RS	
<b>E</b>	LV	CC								<b>4</b>	SS	RS	
<b>F</b>	LV	HA	CC							<b>5</b>	EC	SS	RS
<b>G</b>	RH												
<b>H</b>	LV	RH											
<b>J</b>	RH	HA											
<b>K</b>	LV	RH	CC										
<b>L</b>	LV	RH	HA										
<b>M</b>	LV	RH	HA	CC									

<sup>1</sup>Reheat (HumidiDry®) only available on units with F, G or H drives (VFD) and “C” or “D” control

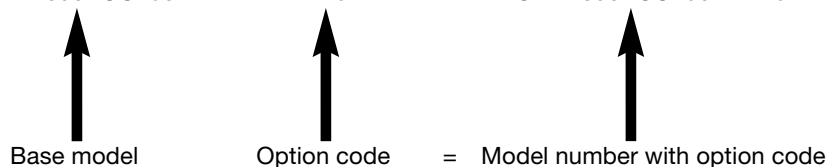
<sup>2</sup>CC-requires LV (louver protection)

### 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: “ED3”
- **Step 4:** Add your option code selection to the end of model number

◦ Example: RACDZR090ACC150AA      ED3      =      RACDZR090ACC150AAED3





To select an RACDZS 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—	79,600 BTUH [23.32 kW]
Heating Capacity—	150,000 BTUH [40 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)—	3600 CFM [1699 L/s]
*External Static Pressure—	0.40 in. WG [.10 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 =	118,900 BTUH [34.82 kW]
Sensible Cooling Capacity =	99,950 BTUH [29.27 kW]
Power Input (Compressor and Cond. Fans) =	8,950 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 = 92,268 BTUH [27.02 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:

$$\begin{aligned} \text{Total Capacity} &= 118,900 \times 0.98 = 116,522 \text{ BTUH [34.12 kW]} \\ \text{Sensible Capacity} &= 92,268 \times 0.95 = 87,655 \text{ BTUH [25.67 kW]} \\ \text{Power Input} &= 8,950 \times 0.99 = 8,861 \text{ Watts} \end{aligned}$$

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 3600 CFM [1699 L/s]. Total ESP (external static pressure) per the spec of 0.40 in. WG [.10 kPa] includes the system duct and grilles. Add from the table “Component Air Resistance,” 0.076 in. WG [.02 kPa] for wet coil, 0 in. WG [.00 kPa] for downflow air flow for a total selection static pressure of 0.476 (0.5) in. WG [.12 kPa], and determine:

$$\begin{aligned} \text{RPM} &= 771 \\ \text{WATTS} &= 1,494 \\ \text{DRIVE} &= \text{A (Belt drive, low static)} \end{aligned}$$

**5. CALCULATE INDOOR BLOWER BTUH HEAT EFFECT FROM MOTOR WATTS, STEP 4.**

$$1,576 \times 3.412 = 5,377 \text{ BTUH [1.57 kW]}$$

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

$$\begin{aligned} \text{Net Total Capacity} &= 116,522 - 5,377 = \\ &111,145 \text{ BTUH [32.54 kW]} \end{aligned}$$

$$\begin{aligned} \text{Net Sensible Capacity} &= 87,655 - 5,377 = \\ &82,278 \text{ BTUH [24.09 kW]} \end{aligned}$$

**7. CALCULATE UNIT INPUT AND JOB EER.**

$$\begin{aligned} \text{Total Power Input} &= 8,861 \text{ (step 3)} + 1,576 \\ &\text{(step 4)} = 10,437 \text{ Watts} \end{aligned}$$

$$\text{EER} = \frac{\text{Net Total BTUH [kW]} \text{ (step 6)}}{\text{Power Input, Watts (above)}} = \frac{111,145}{10,437} = 10.65$$

**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 40 kW Heater Kit

Heater Kit Model:	Heater Kit Capacity:
RXXJJ-DD40CP	135,120 BTUH [39.6 kW]

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

$$135,120 + 5,377 = 140,497 \text{ BTUH [41.1 kW]}$$

**9. CHOOSE MODEL RACDZS120ACA402AA.**

\*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 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RACDZR Series	ZR090	ZR102	ZR120
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3200 [1604/1510]	4000/3480 [1888/1642]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	80,600 [23.62]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	33,400 [9.79]
EER <sup>3</sup>	12.9	12.9	12.9
Net System Power kW	7.53	8.51	9.86
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
No. Stages	1	1	1
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>			
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP
	820	820	1075
<b>Indoor Fan - Type</b>			
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single
Motor RPM	1	1	1
Motor Frame Size	1725	1725	1725
	56	56	56
<b>Filter - Type</b>			
Furnished	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>			
	100 [2835]	117 [3317]	136 [3856]
<b>Weights</b>			
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]

See Page 18 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2007\* COMPLIANT MODELS

Model RACDZS Series	ZS090	ZS102	ZS120	ZS150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3200 [1416/1510]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/4150 [2360/1958]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	79,600 [23.32]	98,600 [28.89]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	34,400 [10.08]	43,400 [12.72]
IEER <sup>3</sup>	12.9	12.9	12.9	12.4
Net System Power kW	7.35	8.46	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

See Page 18 for Notes.  
<sup>2</sup>2013 with optional VFD

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RACDZT Series	ZT090	ZT102	ZT120	ZT150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3200 [1416/1510]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/4150 [2360/1958]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	79,600 [23.32]	98,600 [28.89]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	34,400 [10.08]	43,400 [12.72]
IEER <sup>3</sup>	14.8	14.8	14.8	14.2
Net System Power kW	7.35	8.46	10.49	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

See Page 18 for Notes.

[ ] Designates Metric Conversions

## NOTES:

1. 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.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions





## COOLING PERFORMANCE DATA—RACDZR090A

wB E		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		4500 [2124]	3750 [1770]	3000 [1416]	4500 [2124]	3750 [1770]	3000 [1416]	4500 [2124]	3750 [1770]	3000 [1416]	
CFM [L/s]		0	0.01	0.09	0	0.01	0.09	0	0.01	0.09	
DR ①											
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	179.6 [52.6]	173.3 [50.8]	167.0 [48.9]	172.2 [50.5]	166.2 [48.7]	160.2 [46.9]	167.3 [49.0]	161.4 [47.3]	155.5 [45.6]
		Sens BTUH [kW]	113.4 [33.2]	97.4 [28.5]	82.6 [24.2]	131.0 [38.4]	113.8 [33.3]	97.7 [28.6]	147.4 [43.2]	128.9 [37.8]	111.5 [32.7]
		Power	10.2	10.0	9.9	10.1	9.9	9.8	10.0	9.9	9.7
	80 [26.7]	Total BTUH [kW]	175.0 [51.3]	168.9 [49.5]	162.8 [47.7]	167.6 [49.1]	161.8 [47.4]	155.9 [45.7]	162.7 [47.7]	157.0 [46.0]	151.3 [44.3]
		Sens BTUH [kW]	110.9 [32.5]	95.3 [27.9]	80.9 [23.7]	128.5 [37.7]	111.7 [32.7]	95.9 [28.1]	144.9 [42.5]	126.8 [37.2]	109.8 [32.2]
		Power	10.6	10.4	10.3	10.5	10.4	10.2	10.4	10.3	10.1
	85 [29.4]	Total BTUH [kW]	170.5 [50.0]	164.5 [48.2]	158.5 [46.4]	163.1 [47.8]	157.4 [46.1]	151.6 [44.4]	158.1 [46.3]	152.5 [44.7]	147.0 [43.1]
		Sens BTUH [kW]	108.5 [31.8]	93.2 [27.3]	79.1 [23.2]	126.1 [36.9]	109.6 [32.1]	94.1 [27.6]	142.4 [41.7]	124.6 [36.5]	108.0 [31.6]
		Power	11.1	10.9	10.7	11.0	10.8	10.6	10.9	10.7	10.5
	90 [32.2]	Total BTUH [kW]	165.9 [48.6]	160.1 [46.9]	154.3 [45.2]	158.5 [46.4]	153.0 [44.8]	147.4 [43.2]	153.5 [45.0]	148.1 [43.4]	142.8 [41.8]
	Sens BTUH [kW]	105.8 [31.0]	91.0 [26.7]	77.2 [22.6]	123.4 [36.2]	107.4 [31.5]	92.3 [27.0]	139.7 [40.9]	122.4 [35.9]	106.2 [31.1]	
	Power	11.6	11.4	11.2	11.5	11.3	11.1	11.4	11.2	11.0	
95 [35]	Total BTUH [kW]	161.4 [47.3]	155.7 [45.6]	150.0 [43.9]	154.0 [45.1]	148.6 [43.5]	143.2 [42.0]	149.0 [43.7]	143.8 [42.1]	138.5 [40.6]	
	Sens BTUH [kW]	103.3 [30.3]	88.8 [26.0]	75.3 [22.1]	120.9 [35.4]	105.2 [30.8]	90.5 [26.5]	137.2 [40.2]	120.3 [35.2]	104.3 [30.6]	
	Power	12.1	11.9	11.6	12.0	11.8	11.6	11.9	11.7	11.5	
100 [37.8]	Total BTUH [kW]	156.8 [45.9]	151.3 [44.3]	145.8 [42.7]	149.4 [43.8]	144.2 [42.3]	139.0 [40.7]	144.5 [42.3]	139.4 [40.8]	134.3 [39.3]	
	Sens BTUH [kW]	100.6 [29.5]	86.5 [25.3]	73.4 [21.5]	118.2 [34.6]	102.9 [30.1]	88.6 [26.0]	134.6 [39.4]	118.0 [34.6]	102.4 [30.0]	
	Power	12.6	12.4	12.2	12.5	12.3	12.1	12.4	12.2	12.0	
105 [40.6]	Total BTUH [kW]	152.3 [44.6]	147.0 [43.1]	141.6 [41.5]	144.9 [42.5]	139.8 [41.0]	134.8 [39.5]	139.9 [41.0]	135.0 [39.6]	130.1 [38.1]	
	Sens BTUH [kW]	98.0 [28.7]	84.3 [24.7]	71.5 [20.9]	115.6 [33.9]	100.6 [29.5]	86.7 [25.4]	131.9 [38.6]	115.7 [33.9]	100.5 [29.4]	
	Power	13.2	13.0	12.7	13.1	12.9	12.6	13.0	12.8	12.5	
110 [43.3]	Total BTUH [kW]	147.8 [43.3]	142.6 [41.8]	137.4 [40.3]	140.4 [41.1]	135.5 [39.7]	130.6 [38.3]	135.4 [39.7]	130.7 [38.3]	125.9 [36.9]	
	Sens BTUH [kW]	95.3 [27.9]	82.0 [24.0]	69.6 [20.4]	112.9 [33.1]	98.4 [28.8]	84.8 [24.8]	129.2 [37.9]	113.5 [33.3]	98.6 [28.9]	
	Power	13.8	13.5	13.3	13.7	13.5	13.2	13.6	13.4	13.1	
115 [46.1]	Total BTUH [kW]	143.3 [42.0]	138.3 [40.5]	133.3 [39.1]	135.9 [39.8]	131.2 [38.4]	126.4 [37.0]	130.9 [38.4]	126.4 [37.0]	121.8 [35.7]	
	Sens BTUH [kW]	92.6 [27.1]	79.7 [23.4]	67.7 [19.8]	110.1 [32.3]	96.0 [28.1]	82.7 [24.2]	126.4 [37.0]	111.1 [32.6]	96.6 [28.3]	
	Power	14.4	14.2	13.9	14.3	14.1	13.8	14.2	14.0	13.7	

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

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

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

[ ] Designates Metric Conversions





## COOLING PERFORMANCE DATA—RACDZR102A

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		4500 [2124]	3750 [1770]	3000 [1416]	4500 [2124]	3750 [1770]	3000 [1416]	4500 [2124]	3750 [1770]	3000 [1416]	
DR ①		0	0.01	0.09	0	0.01	0.09	0	0.01	0.09	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	179.6 [52.6] 113.4 [33.2] 10.2	173.3 [50.8] 97.4 [28.5] 10.0	167.0 [48.9] 82.6 [24.2] 9.9	172.2 [50.5] 131.0 [38.4] 10.1	166.2 [48.7] 113.8 [33.3] 9.9	160.2 [46.9] 97.7 [28.6] 9.8	167.3 [49.0] 147.4 [43.2] 10.0	161.4 [47.3] 128.9 [37.8] 9.9	155.5 [45.6] 111.5 [32.7] 9.7
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	175.0 [51.3] 110.9 [32.5] 10.6	168.9 [49.5] 95.3 [27.9] 10.4	162.8 [47.7] 80.9 [23.7] 10.3	167.6 [49.1] 128.5 [37.7] 10.5	161.8 [47.4] 111.7 [32.7] 10.4	155.9 [45.7] 95.9 [28.1] 10.2	162.7 [47.7] 144.9 [42.5] 10.4	157.0 [46.0] 126.8 [37.2] 10.3	151.3 [44.3] 109.8 [32.2] 10.1
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	170.5 [50.0] 108.5 [31.8] 11.1	164.5 [48.2] 93.2 [27.3] 10.9	158.5 [46.4] 79.1 [23.2] 10.7	163.1 [47.8] 126.1 [36.9] 11.0	157.4 [46.1] 109.6 [32.1] 10.8	151.6 [44.4] 94.1 [27.6] 10.6	158.1 [46.3] 142.4 [41.7] 10.9	152.5 [44.7] 124.6 [36.5] 10.7	147.0 [43.1] 108.0 [31.6] 10.5
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	165.9 [48.6] 105.8 [31.0] 11.6	160.1 [46.9] 91.0 [26.7] 11.4	154.3 [45.2] 77.2 [22.6] 11.2	158.5 [46.4] 123.4 [36.2] 11.5	153.0 [44.8] 107.4 [31.5] 11.3	147.4 [43.2] 92.3 [27.0] 11.1	153.5 [45.0] 139.7 [40.9] 11.4	148.1 [43.4] 122.4 [35.9] 11.2	142.8 [41.8] 106.2 [31.1] 11.0
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	161.4 [47.3] 103.3 [30.3] 12.1	155.7 [45.6] 88.8 [26.0] 11.9	150.0 [43.9] 75.3 [22.1] 11.6	154.0 [45.1] 120.9 [35.4] 12.0	148.6 [43.5] 105.2 [30.8] 11.8	143.2 [42.0] 90.5 [26.5] 11.6	149.0 [43.7] 137.2 [40.2] 11.9	143.8 [42.1] 120.3 [35.2] 11.7	138.5 [40.6] 104.3 [30.6] 11.5
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	156.8 [45.9] 100.6 [29.5] 12.6	151.3 [44.3] 86.5 [25.3] 12.4	145.8 [42.7] 73.4 [21.5] 12.2	149.4 [43.8] 118.2 [34.6] 12.5	144.2 [42.3] 102.9 [30.1] 12.3	139.0 [40.7] 88.6 [26.0] 12.1	144.5 [42.3] 134.6 [39.4] 12.4	139.4 [40.8] 118.0 [34.6] 12.2	134.3 [39.3] 102.4 [30.0] 12.0
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	152.3 [44.6] 98.0 [28.7] 13.2	147.0 [43.1] 84.3 [24.7] 13.0	141.6 [41.5] 71.5 [20.9] 12.7	144.9 [42.5] 115.6 [33.9] 13.1	139.8 [41.0] 100.6 [29.5] 12.9	134.8 [39.5] 86.7 [25.4] 12.6	139.9 [41.0] 131.9 [38.6] 13.0	135.0 [39.6] 115.7 [33.9] 12.8	130.1 [38.1] 100.5 [29.4] 12.5
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	147.8 [43.3] 95.3 [27.9] 13.8	142.6 [41.8] 82.0 [24.0] 13.5	137.4 [40.3] 69.6 [20.4] 13.3	140.4 [41.1] 112.9 [33.1] 13.7	135.5 [39.7] 98.4 [28.8] 13.5	130.6 [38.3] 84.8 [24.8] 13.2	135.4 [39.7] 129.2 [37.9] 13.6	130.7 [38.3] 113.5 [33.3] 13.4	125.9 [36.9] 98.6 [28.9] 13.1
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	143.3 [42.0] 92.6 [27.1] 14.4	138.3 [40.5] 79.7 [23.4] 14.2	133.3 [39.1] 67.7 [19.8] 13.9	135.9 [39.8] 110.1 [32.3] 14.3	131.2 [38.4] 96 [28.1] 14.1	126.4 [37.0] 82.7 [24.2] 13.8	130.9 [38.4] 126.4 [37.0] 14.2	126.4 [37.0] 111.1 [32.6] 14.0	121.8 [35.7] 96.6 [28.3] 13.7

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

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

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

[ ] Designates Metric Conversions



# COOLING PERFORMANCE DATA — RACDZR120A

wB/E		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①														
		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]		4800 [2265]	3480 [1642]	3200 [1510]	4800 [2265]	3480 [1642]	3200 [1510]	4800 [2265]	3480 [1642]	3200 [1510]	4800 [2265]	3480 [1642]	3200 [1510]	4800 [2265]	3480 [1642]	3200 [1510]
DR ①		0.03	-0.03	-0.05	0.03	-0.03	-0.05	0.03	-0.03	-0.05	0.03	-0.03	-0.05	0.03	-0.03	-0.05
75 [23.9]	Total BTUH [kW]	158.0 [46.3]	147.8 [43.3]	145.6 [42.7]	150.4 [44.1]	140.7 [41.2]	138.6 [40.6]	145.2 [42.6]	135.8 [39.8]	133.9 [39.2]	143.9 [42.2]	134.7 [39.5]	132.7 [38.9]	143.8 [42.1]	134.5 [39.4]	132.6 [38.8]
	Sens BTUH [kW]	101.3 [29.7]	86.1 [25.2]	82.8 [24.3]	120.6 [35.3]	102.4 [30.0]	98.6 [28.9]	138.3 [40.5]	117.5 [34.4]	113.1 [33.1]	143.9 [42.2]	124.3 [36.4]	119.6 [35.1]	143.8 [42.1]	130.4 [38.2]	125.5 [36.8]
	Power	7.5	7.3	7.2	7.4	7.2	7.1	7.3	7.1	7.1	7.1	7.3	7.0	7.0	7.0	7.0
80 [26.7]	Total BTUH [kW]	153.2 [44.9]	143.4 [42.0]	141.3 [41.4]	145.6 [42.7]	136.2 [39.9]	134.2 [39.3]	140.5 [41.2]	131.4 [38.5]	129.5 [37.9]	139.2 [40.8]	130.2 [38.2]	128.3 [37.6]	139.1 [40.8]	130.1 [38.1]	128.2 [37.6]
	Sens BTUH [kW]	98.8 [29.0]	84.0 [24.6]	80.8 [23.7]	118.1 [34.6]	100.3 [29.4]	96.6 [28.3]	135.9 [39.8]	115.4 [33.8]	111.1 [32.6]	139.2 [40.8]	122.2 [35.8]	117.6 [34.5]	139.1 [40.8]	128.3 [37.6]	123.4 [36.2]
	Power	8.0	7.7	7.6	7.9	7.6	7.6	7.8	7.8	7.5	7.7	7.5	7.4	7.7	7.4	7.4
85 [29.4]	Total BTUH [kW]	148.5 [43.5]	138.9 [40.7]	136.9 [40.1]	140.9 [41.3]	131.8 [38.6]	129.9 [38.1]	135.8 [39.8]	127.0 [37.2]	125.1 [36.7]	134.5 [39.4]	125.8 [36.9]	124.0 [36.3]	134.4 [39.4]	125.7 [36.8]	123.9 [36.3]
	Sens BTUH [kW]	96.3 [28.2]	81.8 [24.0]	78.8 [23.1]	115.6 [33.9]	98.2 [28.8]	94.5 [27.7]	133.3 [39.1]	113.3 [33.2]	109.0 [32.0]	134.5 [39.4]	120.1 [35.2]	115.6 [33.9]	134.4 [39.4]	125.7 [36.8]	121.4 [35.6]
	Power	8.4	8.1	8.1	8.3	8.0	8.0	8.2	8.0	7.9	8.2	7.9	7.9	8.1	7.9	7.8
90 [32.2]	Total BTUH [kW]	143.8 [42.1]	134.5 [39.4]	132.6 [38.8]	136.2 [39.9]	127.4 [37.3]	125.5 [36.8]	131.1 [38.4]	122.6 [35.9]	120.8 [35.4]	129.8 [38.0]	121.4 [35.6]	119.6 [35.1]	129.7 [38.0]	121.3 [35.5]	119.5 [35.0]
	Sens BTUH [kW]	93.8 [27.5]	79.7 [23.3]	76.7 [22.5]	113.0 [33.1]	96.0 [28.1]	92.4 [27.1]	130.8 [38.3]	111.1 [32.6]	106.9 [31.3]	129.8 [38.0]	117.9 [34.5]	113.5 [33.3]	129.7 [38.0]	121.3 [35.5]	119.3 [35.0]
	Power	8.9	8.6	8.5	8.8	8.5	8.5	8.7	8.4	8.4	8.7	8.4	8.3	8.6	8.3	8.3
95 [35]	Total BTUH [kW]	139.1 [40.8]	130.2 [38.1]	128.2 [37.6]	131.5 [38.5]	123.0 [35.8]	121.2 [35.5]	126.4 [37.0]	118.2 [34.6]	116.5 [34.1]	125.1 [36.7]	117.0 [34.3]	115.3 [33.8]	125.0 [36.6]	116.9 [34.3]	115.2 [33.8]
	Sens BTUH [kW]	91.2 [26.7]	77.5 [22.7]	74.6 [21.8]	110.4 [32.4]	93.8 [27.5]	90.3 [26.5]	126.4 [37.0]	108.9 [31.9]	104.8 [30.7]	125.1 [36.7]	115.7 [33.9]	111.3 [32.6]	125.0 [36.6]	116.9 [34.3]	115.2 [33.8]
	Power	9.4	9.1	9.0	9.3	9.0	9.0	9.2	8.9	8.9	9.2	8.9	8.8	9.1	8.8	8.8
100 [37.8]	Total BTUH [kW]	134.5 [39.4]	125.8 [36.9]	123.9 [36.3]	126.8 [37.2]	118.7 [34.8]	116.9 [34.3]	121.7 [35.7]	113.8 [33.4]	112.2 [32.9]	120.4 [35.3]	112.7 [33.0]	111.0 [32.5]	120.3 [35.3]	112.5 [33.0]	110.9 [32.5]
	Sens BTUH [kW]	88.5 [25.9]	75.2 [22.0]	72.4 [21.2]	107.8 [31.6]	91.6 [26.8]	88.1 [25.8]	121.7 [35.7]	106.7 [31.3]	102.7 [30.1]	120.4 [35.3]	112.7 [33.0]	109.2 [32.0]	120.3 [35.3]	112.5 [33.0]	110.9 [32.5]
	Power	10.0	9.6	9.6	9.9	9.5	9.5	9.8	9.5	9.4	9.7	9.4	9.3	9.7	9.4	9.3
105 [40.6]	Total BTUH [kW]	129.8 [38.0]	121.4 [35.6]	119.6 [35.1]	122.2 [35.8]	114.3 [33.5]	112.6 [33.0]	117.0 [34.3]	109.5 [32.1]	107.9 [31.6]	115.8 [33.9]	108.3 [31.7]	106.7 [31.3]	115.6 [33.9]	108.2 [31.7]	106.6 [31.2]
	Sens BTUH [kW]	85.9 [25.2]	73.0 [21.4]	70.2 [20.6]	105.1 [30.8]	89.3 [26.2]	86.0 [25.2]	117.0 [34.3]	104.4 [30.6]	100.5 [29.4]	115.8 [33.9]	108.3 [31.7]	106.7 [31.3]	115.6 [33.9]	108.2 [31.7]	106.6 [31.2]
	Power	10.5	10.2	10.1	10.5	10.1	10.0	10.4	10.0	10.0	10.3	10.0	9.9	10.3	9.9	9.9
110 [43.3]	Total BTUH [kW]	125.1 [36.7]	117.1 [34.3]	115.4 [33.8]	117.5 [34.4]	109.9 [32.2]	108.3 [31.7]	112.4 [32.9]	105.1 [30.8]	103.6 [30.4]	111.1 [32.6]	104.0 [30.5]	102.4 [30.0]	111.0 [32.5]	103.8 [30.4]	102.3 [30.0]
	Sens BTUH [kW]	83.1 [24.4]	70.6 [20.7]	68.0 [19.9]	102.4 [30.0]	87.0 [25.5]	83.7 [24.5]	112.4 [32.9]	102.1 [29.9]	98.3 [28.8]	111.1 [32.6]	104.0 [30.5]	102.4 [30.0]	111.0 [32.5]	103.8 [30.4]	102.3 [30.0]
	Power	11.2	10.8	10.7	11.1	10.7	10.6	11.0	10.6	10.5	10.9	10.6	10.5	10.9	10.5	10.5
115 [46.1]	Total BTUH [kW]	120.5 [35.3]	112.7 [33.0]	111.1 [32.6]	112.9 [33.1]	105.6 [31.0]	104.1 [30.5]	107.8 [31.6]	100.8 [29.5]	99.3 [29.1]	106.5 [31.2]	99.6 [29.2]	98.2 [28.8]	106.4 [31.2]	99.5 [29.2]	98.0 [28.7]
	Sens BTUH [kW]	80.4 [23.6]	68.3 [20.0]	65.7 [19.3]	99.7 [29.2]	84.7 [24.8]	81.5 [23.9]	107.8 [31.6]	99.8 [29.2]	96.0 [28.1]	106.5 [31.2]	99.6 [29.2]	98.2 [28.8]	106.4 [31.2]	99.5 [29.2]	98.0 [28.7]
	Power	11.8	11.4	11.3	11.7	11.3	11.3	11.6	11.2	11.2	11.6	11.2	11.1	11.5	11.2	11.1
120 [48.9]	Total BTUH [kW]	115.9 [34.0]	108.4 [31.8]	106.8 [31.3]	108.3 [31.7]	101.3 [29.7]	99.8 [29.3]	103.1 [30.2]	96.5 [28.3]	95.1 [27.9]	101.9 [29.9]	95.3 [27.9]	93.9 [27.5]	101.7 [29.8]	95.2 [27.9]	93.8 [27.5]
	Sens BTUH [kW]	77.6 [22.7]	65.9 [19.3]	63.5 [18.6]	96.9 [28.4]	82.3 [24.1]	79.2 [23.2]	103.1 [30.2]	96.5 [28.3]	93.7 [27.5]	101.9 [29.9]	95.3 [27.9]	93.9 [27.5]	101.7 [29.8]	95.2 [27.9]	93.8 [27.5]
	Power	12.5	12.1	12.0	12.4	12.0	11.9	12.3	11.9	11.8	12.3	12.3	11.9	12.2	11.8	11.7
125 [51.7]	Total BTUH [kW]	111.3 [32.6]	104.1 [30.5]	102.6 [30.1]	103.7 [30.4]	97.0 [28.4]	95.6 [28.0]	98.5 [28.9]	92.2 [27.0]	90.8 [26.6]	97.3 [28.5]	91.0 [26.7]	89.7 [26.3]	97.1 [28.5]	90.9 [26.6]	89.5 [26.2]
	Sens BTUH [kW]	74.8 [21.9]	63.5 [18.6]	61.1 [17.9]	94.0 [27.6]	79.9 [23.4]	76.9 [22.5]	98.5 [28.9]	92.2 [27.0]	90.8 [26.6]	97.3 [28.5]	91.0 [26.7]	89.7 [26.3]	97.1 [28.5]	90.9 [26.6]	89.5 [26.2]
	Power	13.2	12.8	12.7	13.1	12.7	12.6	13.0	12.6	12.5	13.0	12.5	12.5	12.9	12.5	12.4

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 (t - DR) x (dbE - 80)].



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

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA — RACDZS090A

WBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①										OUT DOOR DRY BULB TEMPERATURE °F [°C]												
		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]		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]		
DR ①		3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]	3200 [1510]	3600 [1699]	2400 [1133]
75 [23.9]		0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14
Total BTUH [KW]		111.8 [32.8]	104.4 [30.6]	102.9 [30.1]	105.2 [30.8]	98.2 [28.8]	98.2 [28.8]	100.4 [29.4]	93.7 [27.5]	98.2 [28.8]	93.7 [27.5]	98.2 [28.8]	93.7 [27.5]	99.0 [29.0]	92.4 [27.1]	96.8 [28.4]	98.5 [28.9]	92.4 [27.1]	96.8 [28.4]	98.5 [28.9]	92.4 [27.1]	96.8 [28.4]	98.5 [28.9]	92.4 [27.1]
Sens BTUH [KW]		65.6 [19.2]	54.7 [16.0]	73.3 [21.5]	77.6 [22.7]	64.8 [19.0]	73.3 [21.5]	89.5 [26.2]	74.7 [21.9]	84.5 [24.8]	74.7 [21.9]	84.5 [24.8]	74.7 [21.9]	95.2 [27.9]	79.4 [23.3]	89.9 [26.4]	98.5 [28.9]	79.4 [23.3]	89.9 [26.4]	98.5 [28.9]	79.4 [23.3]	89.9 [26.4]	98.5 [28.9]	79.4 [23.3]
Power		4.5	4.3	4.4	4.4	4.3	4.4	4.4	4.2	4.3	4.2	4.3	4.2	4.3	4.2	4.3	4.3	4.2	4.3	4.3	4.2	4.3	4.3	4.2
80 [26.7]		108.5 [31.8]	101.2 [29.7]	99.5 [29.2]	101.8 [29.8]	95.0 [27.8]	99.5 [29.2]	97.0 [28.4]	90.6 [26.5]	94.9 [27.8]	90.6 [26.5]	94.9 [27.8]	90.6 [26.5]	95.6 [28.0]	89.2 [26.2]	93.5 [27.4]	95.1 [27.9]	89.2 [26.2]	93.5 [27.4]	95.1 [27.9]	89.2 [26.2]	93.5 [27.4]	95.1 [27.9]	89.2 [26.2]
Sens BTUH [KW]		63.8 [18.7]	53.3 [15.6]	71.7 [21.0]	75.9 [22.2]	63.3 [18.6]	71.7 [21.0]	87.7 [25.7]	73.2 [21.4]	82.9 [24.3]	73.2 [21.4]	82.9 [24.3]	73.2 [21.4]	93.4 [27.4]	78.0 [22.8]	88.3 [25.9]	95.1 [27.9]	78.0 [22.8]	88.3 [25.9]	95.1 [27.9]	78.0 [22.8]	88.3 [25.9]	95.1 [27.9]	78.0 [22.8]
Power		4.9	4.7	4.8	4.8	4.7	4.8	4.8	4.6	4.7	4.6	4.7	4.6	4.7	4.6	4.7	4.7	4.6	4.7	4.7	4.6	4.7	4.7	4.6
85 [29.4]		105.0 [30.8]	98.0 [28.7]	96.2 [28.2]	98.4 [28.8]	91.8 [26.9]	96.2 [28.2]	93.6 [27.4]	87.4 [25.6]	91.5 [26.8]	87.4 [25.6]	91.5 [26.8]	87.4 [25.6]	92.2 [27.0]	86.0 [25.2]	90.1 [26.4]	91.6 [26.9]	86.0 [25.2]	90.1 [26.4]	91.6 [26.9]	86.0 [25.2]	90.1 [26.4]	91.6 [26.9]	86.0 [25.2]
Sens BTUH [KW]		62.1 [18.2]	51.8 [15.2]	70.0 [20.5]	74.1 [21.7]	61.9 [18.1]	70.0 [20.5]	85.9 [25.2]	71.7 [21.0]	81.2 [23.8]	71.7 [21.0]	81.2 [23.8]	71.7 [21.0]	91.7 [26.9]	76.5 [22.4]	86.6 [25.4]	91.6 [26.9]	76.5 [22.4]	86.6 [25.4]	91.6 [26.9]	76.5 [22.4]	86.6 [25.4]	91.6 [26.9]	76.5 [22.4]
Power		5.3	5.2	5.2	5.3	5.1	5.2	5.2	5.0	5.2	5.0	5.2	5.0	5.2	5.0	5.1	5.2	5.0	5.1	5.2	5.0	5.1	5.2	5.0
90 [32.2]		101.6 [29.8]	94.8 [27.8]	92.8 [27.2]	94.9 [27.8]	88.6 [26.0]	92.8 [27.2]	84.2 [24.7]	84.1 [24.7]	88.1 [25.8]	84.1 [24.7]	88.1 [25.8]	84.1 [24.7]	88.7 [26.0]	82.8 [24.3]	86.8 [25.4]	88.2 [25.8]	82.8 [24.3]	86.8 [25.4]	88.2 [25.8]	82.8 [24.3]	86.8 [25.4]	88.2 [25.8]	82.8 [24.3]
Sens BTUH [KW]		60.3 [17.7]	50.4 [14.8]	68.4 [20.0]	72.4 [21.2]	60.4 [17.7]	68.4 [20.0]	82.5 [24.2]	70.3 [20.6]	79.6 [23.3]	70.3 [20.6]	79.6 [23.3]	70.3 [20.6]	88.7 [26.0]	85.0 [25.0]	85.0 [25.0]	88.7 [26.0]	85.0 [25.0]	85.0 [25.0]	88.7 [26.0]	85.0 [25.0]	85.0 [25.0]	88.7 [26.0]	85.0 [25.0]
Power		5.9	5.7	5.7	5.8	5.6	5.7	5.8	5.6	5.7	5.6	5.7	5.6	5.7	5.5	5.7	5.7	5.5	5.7	5.7	5.5	5.7	5.7	5.5
95 [35]		98.1 [28.7]	91.5 [26.8]	89.4 [26.2]	91.4 [26.8]	85.3 [25.0]	89.4 [26.2]	86.6 [25.4]	80.9 [23.7]	84.7 [24.8]	80.9 [23.7]	84.7 [24.8]	80.9 [23.7]	85.2 [25.0]	79.5 [23.3]	83.3 [24.4]	84.7 [24.8]	79.5 [23.3]	83.3 [24.4]	84.7 [24.8]	79.5 [23.3]	83.3 [24.4]	84.7 [24.8]	79.5 [23.3]
Sens BTUH [KW]		58.6 [17.2]	48.9 [14.3]	66.8 [19.6]	70.7 [20.7]	59.0 [17.3]	66.8 [19.6]	82.5 [24.2]	69.9 [20.2]	78.0 [22.8]	69.9 [20.2]	78.0 [22.8]	69.9 [20.2]	85.2 [25.0]	81.1 [23.8]	83.3 [24.4]	84.7 [24.8]	81.1 [23.8]	83.3 [24.4]	84.7 [24.8]	81.1 [23.8]	83.3 [24.4]	84.7 [24.8]	81.1 [23.8]
Power		6.5	6.3	6.4	6.4	6.2	6.4	6.4	6.2	6.3	6.2	6.3	6.2	6.3	6.1	6.3	6.3	6.1	6.3	6.3	6.1	6.3	6.3	6.1
100 [37.8]		94.5 [27.7]	88.2 [25.9]	85.9 [25.2]	87.9 [25.8]	82.0 [24.0]	85.9 [25.2]	83.1 [24.4]	77.6 [22.8]	81.2 [23.8]	77.6 [22.8]	81.2 [23.8]	77.6 [22.8]	81.7 [23.9]	76.2 [22.3]	79.9 [23.4]	81.7 [23.9]	76.2 [22.3]	79.9 [23.4]	81.7 [23.9]	76.2 [22.3]	79.9 [23.4]	81.7 [23.9]	76.2 [22.3]
Sens BTUH [KW]		56.9 [16.7]	47.5 [13.9]	65.2 [19.1]	69.0 [20.2]	57.6 [16.9]	65.2 [19.1]	80.8 [23.7]	67.5 [19.8]	76.4 [22.4]	67.5 [19.8]	76.4 [22.4]	67.5 [19.8]	81.7 [23.9]	78.1 [22.9]	81.7 [23.9]	78.1 [22.9]	78.1 [22.9]	81.7 [23.9]	78.1 [22.9]	78.1 [22.9]	81.7 [23.9]	78.1 [22.9]	78.1 [22.9]
Power		7.2	6.9	7.0	7.1	6.9	7.1	7.1	6.8	7.0	6.8	7.0	6.8	7.0	6.8	7.0	7.0	6.8	7.0	7.0	6.8	7.0	7.0	6.8
105 [40.6]		91.0 [26.7]	84.9 [24.9]	82.4 [24.2]	84.3 [24.7]	78.7 [23.1]	82.4 [24.2]	79.5 [23.3]	74.2 [21.7]	77.8 [22.8]	74.2 [21.7]	77.8 [22.8]	74.2 [21.7]	78.1 [22.9]	72.9 [21.4]	76.4 [22.4]	78.1 [22.9]	72.9 [21.4]	76.4 [22.4]	78.1 [22.9]	72.9 [21.4]	76.4 [22.4]	78.1 [22.9]	72.9 [21.4]
Sens BTUH [KW]		55.3 [16.2]	46.1 [13.5]	63.6 [18.6]	67.3 [19.7]	56.2 [16.5]	63.6 [18.6]	79.2 [23.2]	66.1 [19.4]	74.8 [21.9]	66.1 [19.4]	74.8 [21.9]	66.1 [19.4]	78.1 [22.9]	70.8 [20.8]	76.4 [22.4]	78.1 [22.9]	70.8 [20.8]	76.4 [22.4]	78.1 [22.9]	70.8 [20.8]	76.4 [22.4]	78.1 [22.9]	70.8 [20.8]
Power		7.9	7.7	7.8	7.9	7.6	7.8	7.8	7.6	7.7	7.6	7.7	7.6	7.8	7.5	7.7	7.8	7.5	7.7	7.8	7.5	7.7	7.8	7.5
110 [43.3]		87.3 [25.6]	81.5 [23.9]	78.9 [23.1]	80.7 [23.6]	75.3 [22.1]	78.9 [23.1]	75.9 [22.2]	70.8 [20.8]	74.2 [21.7]	70.8 [20.8]	74.2 [21.7]	70.8 [20.8]	74.5 [21.8]	69.5 [20.4]	72.8 [21.3]	74.5 [21.8]	69.5 [20.4]	72.8 [21.3]	74.5 [21.8]	69.5 [20.4]	72.8 [21.3]	74.5 [21.8]	69.5 [20.4]
Sens BTUH [KW]		53.6 [15.7]	44.8 [13.1]	62.0 [18.2]	65.7 [19.2]	54.8 [16.1]	62.0 [18.2]	75.9 [22.2]	64.7 [19.0]	73.2 [21.5]	64.7 [19.0]	73.2 [21.5]	64.7 [19.0]	74.5 [21.8]	69.4 [20.4]	72.8 [21.3]	74.5 [21.8]	69.4 [20.4]	72.8 [21.3]	74.5 [21.8]	69.4 [20.4]	72.8 [21.3]	74.5 [21.8]	69.4 [20.4]
Power		8.8	8.5	8.6	8.7	8.4	8.6	8.7	8.4	8.6	8.4	8.6	8.4	8.6	8.4	8.5	8.6	8.4	8.5	8.6	8.4	8.5	8.6	8.3
115 [46.1]		83.7 [24.5]	78.1 [22.9]	75.3 [22.1]	77.0 [22.6]	71.9 [21.1]	75.3 [22.1]	72.3 [21.2]	67.4 [19.8]	70.7 [20.7]	67.4 [19.8]	70.7 [20.7]	67.4 [19.8]	70.9 [20.8]	66.1 [19.4]	69.3 [20.3]	70.9 [20.8]	66.1 [19.4]	69.3 [20.3]	70.9 [20.8]	66.1 [19.4]	69.3 [20.3]	70.9 [20.8]	66.1 [19.4]
Sens BTUH [KW]		52.0 [15.2]	43.4 [12.7]	60.5 [17.7]	64.0 [18.8]	53.4 [15.7]	60.5 [17.7]	72.3 [21.2]	63.3 [18.6]	70.7 [20.7]	63.3 [18.6]	70.7 [20.7]	63.3 [18.6]	70.9 [20.8]	66.1 [19.4]	69.3 [20.3]	70.9 [20.8]	66.1 [19.4]	69.3 [20.3]	70.9 [20.8]	66.1 [19.4]	69.3 [20.3]	70.9 [20.8]	66.1 [19.4]
Power		9.7	9.4	9.5	9.6	9.3	9.5	9.6	9.3	9.5	9.3	9.5	9.3	9.6	9.2	9.5	9.6	9.2	9.5	9.6	9.2	9.5	9.6	9.2
120 [48.9]		80.0 [23.4]	74.7 [21.9]	71.7 [21.0]	73.4 [21.5]	68.5 [20.1]	71.7 [21.0]	68.6 [20.1]	64.0 [18.8]	67.0 [19.6]	64.0 [18.8]	67.0 [19.6]	64.0 [18.8]	67.2 [19.7]	62.7 [18.4]	65.7 [19.2]	67.2 [19.7]	62.7 [18.4]	65.7 [19.2]	67.2 [19.7]	62.7 [18.4]	65.7 [19.2]	67.2 [19.7]	62.7 [18.4]
Sens BTUH [KW]		50.4 [14.8]	42.0 [12.3]	59.0 [17.3]	62.4 [18.3]	52.1 [15.3]	59.0 [17.3]	68.6 [20.1]	62.0 [18.2]	67.0 [19.6]	62.0 [18.2]	67.0 [19.6]	62.0 [18.2]	67.2 [19.7]	62.7 [18.4]	65.7 [19.2]	67.2 [19.7]	62.7 [18.4]	65.7 [19.2]	67.2 [19.7]	62.7 [18.4]	65.7 [19.2]	67.2 [19.7]	62.7 [18.4]
Power		10.7	10.3	10.5	10.6	10.3	10.6	10.6	10.2	10.5	10.2	10.5	10.2	10.6	10.2	10.4	10.6	10.2	10.4	10.6	10.2	10.4	10.6	10.2
125 [51.7]		76.3 [22.4]	71.2 [20.9]	68.1 [20.0]	69.6 [20.4]	65.0 [19.0]	68.1 [20.0]	64.8 [19.0]	60.5 [17.7]	63.4 [18.6]	60.5 [17.7]	63.4 [18.6]	60.5 [17.7]	63.4 [18.6]	59.2 [17.4]	62.0 [18.2]	63.4 [18.6]	59.2 [17.4]	62.0 [18.2]	63.4 [18.6]	59.2 [17.4]	62.0 [18.2]	63.4 [18.6]	59.2 [17.4]
Sens BTUH [KW]		48.8 [14.3]	40.7 [11.9]	57.5 [16.8]	60.8 [17.8]	50.8 [14.9]	57.5 [16.8]	64.8 [19.0]	60.5 [17.7]	63.4 [18.6]	60.5 [17.7]	63.4 [18.6]	60.5 [17.7]	63.4 [18.6]	59.2 [17.4]	62.0 [18.2]	63.4 [18.6]	59.2 [17.4]	62.0 [18.2]	63.4 [18.6]	59.2 [17.4]	62.0 [18.2]	63.4 [18.6]	59.2 [17.4]
Power		11.8	11.4	11.6	11.7	11.6	11.7	11.7	11.6	11.5	11.3	11.5	11.3	11.6	11.2	11.5	11.6	11.2	11.5	11.6	11.2	11.5	11.6	11.2

**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)].

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

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

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA — RACDZS102A

wBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		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]	DR ②	4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]
75 [23.9]	Total BTUH [kW]	129.4 [37.9]	123.3 [36.1]	119.7 [35.1]	122.2 [35.8]	116.5 [34.1]	113.0 [33.1]	117.8 [34.5]	112.3 [32.9]	108.9 [31.9]	117.0 [34.3]	111.5 [32.7]	108.2 [31.7]
	Sens BTUH [kW]	75.0 [22.0]	66.6 [19.5]	61.5 [18.0]	90.0 [26.4]	79.9 [23.4]	73.9 [21.6]	103.7 [30.4]	92.0 [27.0]	85.0 [24.9]	109.7 [32.2]	97.4 [28.5]	90.0 [26.4]
	Power	6.1	6.0	5.9	6.1	5.9	5.9	6.0	5.9	5.8	6.0	5.8	5.8
80 [26.7]	Total BTUH [kW]	125.2 [36.7]	119.3 [35.0]	115.8 [33.9]	118.0 [34.6]	112.4 [33.0]	109.1 [32.0]	113.6 [33.3]	108.2 [31.7]	105.0 [30.8]	112.8 [33.1]	107.5 [31.5]	104.3 [30.6]
	Sens BTUH [kW]	72.9 [21.4]	64.8 [19.0]	59.8 [17.5]	88.0 [25.8]	78.1 [22.9]	72.1 [21.1]	101.6 [29.8]	90.2 [26.4]	83.3 [24.4]	107.6 [31.5]	95.5 [28.0]	88.3 [25.9]
	Power	6.5	6.3	6.3	6.4	6.3	6.2	6.4	6.2	6.1	6.3	6.2	6.1
85 [29.4]	Total BTUH [kW]	120.9 [35.4]	115.2 [33.8]	111.8 [32.8]	113.8 [33.3]	108.4 [31.8]	105.2 [30.8]	109.3 [32.0]	104.2 [30.5]	101.1 [29.6]	108.6 [31.8]	103.5 [30.3]	100.4 [29.4]
	Sens BTUH [kW]	70.8 [20.8]	62.9 [18.4]	58.1 [17.0]	85.8 [25.1]	76.2 [22.3]	70.4 [20.6]	99.5 [29.1]	88.3 [25.9]	81.6 [23.9]	105.5 [30.9]	93.6 [27.4]	86.5 [25.4]
	Power	6.9	6.7	6.7	6.8	6.7	6.6	6.7	6.6	6.5	6.7	6.6	6.5
90 [32.2]	Total BTUH [kW]	116.7 [34.2]	111.2 [32.6]	107.9 [31.6]	109.5 [32.1]	104.4 [30.6]	101.3 [29.7]	105.1 [30.8]	100.8 [29.5]	97.2 [28.5]	104.3 [30.6]	99.4 [29.1]	96.5 [28.3]
	Sens BTUH [kW]	68.6 [20.1]	60.9 [17.9]	56.3 [16.5]	83.6 [24.5]	74.2 [21.8]	68.6 [20.1]	97.3 [28.5]	86.4 [25.3]	79.8 [23.4]	103.3 [30.3]	91.7 [26.9]	84.8 [24.8]
	Power	7.3	7.1	7.0	7.2	7.1	7.0	7.2	7.0	6.9	7.1	7.0	6.9
95 [35]	Total BTUH [kW]	112.4 [32.9]	107.1 [31.4]	103.0 [30.2]	105.2 [30.8]	100.3 [29.4]	97.3 [28.5]	100.8 [29.5]	96.1 [28.2]	93.2 [27.3]	100.0 [29.3]	95.3 [27.9]	92.5 [27.1]
	Sens BTUH [kW]	66.4 [19.5]	59.0 [17.3]	54.5 [16.0]	81.4 [23.9]	72.3 [21.2]	66.8 [19.6]	95.1 [27.9]	84.4 [24.7]	78.0 [22.9]	100.0 [29.3]	89.8 [26.3]	82.9 [24.3]
	Power	7.7	7.6	7.5	7.7	7.5	7.4	7.6	7.4	7.3	7.6	7.4	7.3
100 [37.8]	Total BTUH [kW]	108.1 [31.7]	103.0 [30.2]	100.0 [29.3]	100.9 [29.6]	96.2 [28.2]	93.4 [27.4]	96.5 [28.3]	92.0 [27.0]	89.3 [26.2]	95.8 [28.1]	91.3 [26.7]	88.6 [26.0]
	Sens BTUH [kW]	64.2 [18.8]	57.0 [16.7]	52.6 [15.4]	79.2 [23.2]	70.3 [20.6]	65.0 [19.0]	92.8 [27.2]	82.4 [24.1]	76.1 [22.3]	95.8 [28.1]	87.8 [25.7]	81.1 [23.8]
	Power	8.2	8.0	7.9	8.2	8.0	7.9	8.1	7.9	7.8	8.1	7.9	7.8
105 [40.6]	Total BTUH [kW]	103.8 [30.4]	98.9 [29.0]	96.0 [28.1]	96.7 [28.3]	92.1 [27.0]	89.4 [26.2]	92.2 [27.0]	87.9 [25.8]	85.3 [25.0]	91.5 [26.8]	87.2 [25.5]	84.6 [24.8]
	Sens BTUH [kW]	61.9 [18.1]	54.9 [16.1]	50.8 [14.9]	76.9 [22.5]	68.3 [20.0]	63.1 [18.5]	90.6 [26.5]	80.4 [23.6]	74.3 [21.8]	91.5 [26.8]	85.7 [25.1]	79.2 [23.2]
	Power	8.7	8.5	8.4	8.7	8.5	8.3	8.6	8.4	8.3	8.6	8.4	8.2
110 [43.3]	Total BTUH [kW]	99.5 [29.2]	94.8 [27.8]	92.0 [27.0]	92.3 [27.1]	88.0 [25.8]	85.4 [25.0]	87.9 [25.8]	83.8 [24.6]	81.3 [23.8]	87.1 [25.5]	83.1 [24.3]	80.6 [23.6]
	Sens BTUH [kW]	59.6 [17.5]	52.9 [15.5]	48.9 [14.3]	74.6 [21.9]	66.2 [19.4]	61.2 [17.9]	87.9 [25.8]	78.3 [22.9]	72.4 [21.2]	87.1 [25.5]	83.1 [24.3]	77.3 [22.7]
	Power	9.3	9.1	8.9	9.2	9.0	8.9	9.1	8.9	8.8	9.1	8.9	8.8
115 [46.1]	Total BTUH [kW]	95.2 [27.9]	90.7 [26.6]	88.0 [25.8]	88.0 [25.8]	83.9 [24.6]	81.4 [23.9]	83.6 [24.5]	79.7 [23.3]	77.3 [22.7]	82.8 [24.3]	78.9 [23.1]	76.6 [22.4]
	Sens BTUH [kW]	57.2 [16.8]	50.8 [14.9]	46.9 [13.8]	72.2 [21.2]	64.1 [18.8]	59.2 [17.4]	83.6 [24.5]	76.2 [22.3]	70.4 [20.6]	82.8 [24.3]	78.9 [23.1]	75.4 [22.1]
	Power	9.8	9.6	9.5	9.8	9.6	9.4	9.7	9.5	9.4	9.7	9.5	9.3
120 [48.9]	Total BTUH [kW]	90.8 [26.6]	86.6 [25.4]	84.0 [24.6]	83.7 [24.5]	79.7 [23.2]	77.4 [22.7]	79.2 [23.2]	75.5 [22.1]	73.3 [21.5]	78.5 [23.0]	74.8 [21.9]	72.6 [21.3]
	Sens BTUH [kW]	54.8 [16.1]	48.6 [14.3]	45.0 [13.2]	69.8 [20.5]	62.0 [18.2]	57.3 [16.8]	79.2 [23.2]	74.1 [21.7]	68.5 [20.1]	78.5 [23.0]	74.8 [21.9]	72.6 [21.3]
	Power	10.5	10.2	10.1	10.4	10.1	10.0	10.3	10.1	9.9	10.3	10.0	9.9
125 [51.7]	Total BTUH [kW]	86.5 [25.3]	82.4 [24.2]	80.0 [23.4]	79.3 [23.2]	75.6 [22.1]	73.3 [21.5]	74.9 [21.9]	71.4 [20.9]	69.3 [20.3]	74.1 [21.7]	70.6 [20.7]	68.5 [20.1]
	Sens BTUH [kW]	52.4 [15.3]	46.5 [13.6]	42.9 [12.6]	67.4 [19.7]	59.8 [17.5]	55.3 [16.2]	74.9 [21.9]	71.4 [20.9]	66.4 [19.5]	74.1 [21.7]	70.6 [20.7]	68.5 [20.1]
	Power	11.1	10.8	10.7	11.0	10.8	10.6	11.0	10.7	10.5	10.9	10.7	10.5

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)].

② Total capacity x 1000 BTUH  
 Sens — Sensible capacity x 1000 BTUH  
 Power — kW input



[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA — RACDZS120A

WBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		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]	DR ①	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]
75 [23.9]	Total BTUH [kW]	155.3 [45.5]	147.8 [43.3]	143.8 [42.3]	147.8 [43.3]	140.7 [41.2]	136.9 [39.8]	132.2 [38.7]	141.5 [41.5]	134.7 [39.5]	131.1 [38.4]	134.5 [39.4]	130.9 [38.4]
	Sens BTUH [kW]	97.3 [28.5]	86.1 [25.2]	80.2 [23.5]	115.8 [33.9]	102.4 [30.0]	117.5 [34.4]	109.5 [32.1]	140.6 [41.2]	124.3 [36.4]	115.8 [33.9]	141.4 [41.4]	121.4 [35.6]
	Power	7.5	7.3	7.2	7.4	7.2	7.1	7.0	7.2	7.1	7.0	7.2	6.9
80 [26.7]	Total BTUH [kW]	150.6 [44.1]	143.4 [42.0]	139.5 [40.9]	143.2 [42.0]	136.2 [39.9]	132.6 [38.9]	127.9 [37.5]	136.9 [40.1]	130.2 [38.2]	126.8 [37.1]	130.1 [38.1]	126.6 [37.1]
	Sens BTUH [kW]	94.9 [27.8]	84.0 [24.6]	78.2 [22.9]	113.5 [33.2]	100.3 [29.4]	115.4 [33.8]	107.5 [31.5]	136.9 [40.1]	122.2 [35.8]	113.8 [33.4]	128.3 [37.6]	119.5 [35.0]
	Power	7.9	7.7	7.6	7.8	7.6	7.5	7.4	7.7	7.5	7.4	7.6	7.3
85 [29.4]	Total BTUH [kW]	146.0 [42.8]	138.9 [40.7]	135.2 [39.6]	138.5 [40.6]	131.8 [38.6]	128.3 [37.6]	123.6 [36.2]	132.2 [38.7]	125.8 [36.9]	122.5 [35.9]	125.7 [36.8]	122.3 [35.9]
	Sens BTUH [kW]	92.5 [27.1]	81.8 [24.0]	76.2 [22.3]	111.0 [32.5]	98.2 [28.8]	113.3 [33.2]	105.5 [30.9]	132.2 [38.7]	120.1 [35.2]	111.9 [32.8]	125.7 [36.8]	117.5 [34.4]
	Power	8.3	8.1	8.0	8.2	8.0	8.0	7.9	8.1	7.9	7.8	8.1	7.8
90 [32.2]	Total BTUH [kW]	141.4 [41.4]	134.5 [39.4]	131.0 [38.4]	133.9 [39.2]	127.4 [37.3]	124.0 [36.3]	119.3 [35.0]	127.6 [37.4]	121.4 [35.6]	118.2 [34.6]	121.3 [35.5]	118.1 [34.6]
	Sens BTUH [kW]	90.1 [26.4]	79.7 [23.3]	74.2 [21.7]	108.6 [31.8]	96.0 [28.1]	111.1 [32.6]	103.5 [30.3]	127.6 [37.4]	117.9 [34.5]	109.8 [32.2]	121.3 [35.5]	115.5 [33.8]
	Power	8.8	8.6	8.5	8.7	8.5	8.4	8.3	8.6	8.4	8.3	8.5	8.2
95 [35]	Total BTUH [kW]	136.8 [40.1]	130.2 [38.1]	126.7 [37.1]	129.3 [37.9]	123.0 [36.1]	119.7 [35.1]	115.2 [33.7]	123.0 [36.0]	117.0 [34.3]	113.9 [33.4]	116.9 [34.3]	113.8 [33.3]
	Sens BTUH [kW]	87.6 [25.7]	77.5 [22.7]	72.2 [21.1]	106.1 [31.1]	93.8 [27.5]	108.9 [31.9]	101.5 [29.7]	123.0 [36.0]	115.7 [33.9]	107.8 [31.6]	116.9 [34.3]	113.4 [33.2]
	Power	9.3	9.1	9.0	9.2	9.0	8.9	8.8	9.1	8.9	8.8	9.1	8.8
100 [37.8]	Total BTUH [kW]	132.2 [38.7]	125.8 [36.9]	122.4 [35.9]	124.7 [36.5]	118.7 [34.8]	115.5 [33.8]	110.8 [32.5]	118.4 [34.7]	112.7 [33.0]	109.7 [32.1]	112.5 [33.0]	109.5 [32.1]
	Sens BTUH [kW]	85.1 [24.9]	75.2 [22.0]	70.1 [20.5]	103.6 [30.3]	91.6 [26.8]	119.6 [35.1]	99.4 [29.1]	118.4 [34.7]	112.7 [33.0]	105.7 [31.0]	112.5 [33.0]	109.5 [32.1]
	Power	9.9	9.6	9.5	9.8	9.5	9.7	9.5	9.6	9.4	9.3	9.6	9.2
105 [40.6]	Total BTUH [kW]	127.6 [37.4]	121.4 [35.6]	118.2 [34.6]	120.1 [35.2]	114.3 [33.5]	111.2 [32.6]	106.6 [31.2]	113.8 [33.4]	108.3 [31.7]	105.4 [30.9]	108.2 [31.7]	105.3 [30.9]
	Sens BTUH [kW]	82.5 [24.2]	73.0 [21.4]	68.0 [19.9]	101.0 [29.6]	89.3 [26.2]	115.1 [33.7]	97.3 [28.5]	113.8 [33.4]	108.3 [31.7]	103.6 [30.4]	108.2 [31.7]	105.3 [30.9]
	Power	10.5	10.2	10.1	10.4	10.1	10.3	10.0	10.2	10.0	9.8	10.2	9.8
110 [43.3]	Total BTUH [kW]	123.0 [36.1]	117.1 [34.3]	114.0 [33.4]	115.5 [33.9]	109.9 [32.2]	107.0 [31.4]	102.3 [30.0]	109.3 [32.0]	104.0 [30.5]	101.2 [29.7]	103.8 [30.4]	101.1 [29.6]
	Sens BTUH [kW]	79.9 [23.4]	70.6 [20.7]	65.8 [19.3]	98.4 [28.8]	87.0 [25.5]	110.5 [32.4]	95.1 [27.9]	109.3 [32.0]	104.0 [30.5]	101.2 [29.7]	103.8 [30.4]	101.1 [29.6]
	Power	11.1	10.8	10.7	11.0	10.7	10.9	10.6	10.8	10.6	10.4	10.8	10.5
115 [46.1]	Total BTUH [kW]	118.5 [34.7]	112.7 [33.0]	109.7 [32.2]	111.0 [32.5]	105.6 [31.0]	102.8 [30.1]	98.1 [28.8]	104.7 [30.7]	99.6 [29.2]	97.0 [28.4]	99.5 [29.2]	96.8 [28.4]
	Sens BTUH [kW]	77.2 [22.6]	68.3 [20.0]	63.6 [18.6]	95.7 [28.1]	84.7 [24.8]	105.9 [31.0]	92.9 [27.2]	104.7 [30.7]	99.6 [29.2]	97.0 [28.4]	99.5 [29.2]	96.8 [28.4]
	Power	11.7	11.4	11.3	11.6	11.3	11.5	11.2	11.5	11.2	11.1	11.4	11.0
120 [48.9]	Total BTUH [kW]	113.9 [33.4]	108.4 [31.8]	105.5 [30.9]	106.5 [31.2]	101.3 [29.7]	98.6 [28.9]	93.9 [27.5]	100.2 [29.4]	95.3 [27.9]	92.8 [27.2]	95.2 [27.9]	92.6 [27.1]
	Sens BTUH [kW]	74.5 [21.8]	65.9 [19.3]	61.4 [18.0]	93.0 [27.3]	82.3 [24.1]	101.4 [29.7]	90.7 [26.6]	100.2 [29.4]	95.3 [27.9]	92.8 [27.2]	95.2 [27.9]	92.6 [27.1]
	Power	12.4	12.1	11.9	12.3	12.0	12.2	11.7	12.1	11.9	11.7	12.1	11.7
125 [51.7]	Total BTUH [kW]	109.4 [32.1]	104.1 [30.5]	101.3 [29.7]	101.9 [29.9]	97.0 [28.4]	94.4 [27.7]	89.7 [26.3]	95.6 [28.0]	91.0 [26.7]	88.6 [26.0]	90.9 [26.6]	88.5 [25.9]
	Sens BTUH [kW]	71.8 [21.0]	63.5 [18.6]	59.2 [17.3]	90.3 [26.5]	79.9 [23.4]	96.9 [28.4]	88.5 [25.9]	95.6 [28.0]	91.0 [26.7]	88.6 [26.0]	90.9 [26.6]	88.5 [25.9]
	Power	13.1	12.8	12.6	13.0	12.7	12.9	12.6	12.9	12.5	12.4	12.8	12.5

OUT DOOR DRY BULB TEMPERATURE °F [°C]

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

① —Total capacity x 1000 BTUH  
 Sens —Sensible capacity x 1000 BTUH  
 Power —KW input

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

[ ] Designates Metric Conversions





# COOLING PERFORMANCE DATA — RACDZS150A

w/E		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]					
CFM [L/s]		4500 [2124]	3000 [1416]	4500 [2124]	3750 [1770]	4500 [2124]	3750 [1770]	4500 [2124]	3750 [1770]	4500 [2124]	3750 [1770]	3000 [1416]	
75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	179.6 [52.6] 113.4 [33.2] 10.2	167.0 [48.9] 82.6 [24.2] 9.9	172.2 [50.5] 131.0 [38.4] 10.1	166.2 [48.7] 113.8 [33.3] 9.9	162.8 [47.7] 80.9 [23.7] 10.3	161.8 [47.4] 111.7 [32.7] 10.4	167.3 [49.0] 147.4 [43.2] 10.0	161.4 [47.3] 128.9 [37.8] 9.9	167.3 [49.0] 147.4 [43.2] 10.0	161.4 [47.3] 128.9 [37.8] 9.9	160.2 [46.9] 97.7 [28.6] 9.8	155.5 [45.6] 111.5 [32.7] 9.7
80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	175.0 [51.3] 110.9 [32.5] 10.6	162.8 [47.7] 80.9 [23.7] 10.3	167.6 [49.1] 128.5 [37.7] 10.5	161.8 [47.4] 111.7 [32.7] 10.4	162.8 [47.7] 80.9 [23.7] 10.3	161.8 [47.4] 111.7 [32.7] 10.4	162.7 [47.7] 144.9 [42.5] 10.4	157.0 [46.0] 126.8 [37.2] 10.3	162.7 [47.7] 144.9 [42.5] 10.4	157.0 [46.0] 126.8 [37.2] 10.3	155.9 [45.7] 95.9 [28.1] 10.2	151.3 [44.3] 109.8 [32.2] 10.1
85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	170.5 [50.0] 108.5 [31.8] 11.1	158.5 [46.4] 79.1 [23.2] 10.7	163.1 [47.8] 126.1 [36.9] 11.0	157.4 [46.1] 109.6 [32.1] 10.8	158.5 [46.4] 79.1 [23.2] 10.7	157.4 [46.1] 109.6 [32.1] 10.8	158.1 [46.3] 142.4 [41.7] 10.9	152.5 [44.7] 124.6 [36.5] 10.7	158.1 [46.3] 142.4 [41.7] 10.9	152.5 [44.7] 124.6 [36.5] 10.7	151.6 [44.4] 94.1 [27.6] 10.6	147.0 [43.1] 108.0 [31.6] 10.5
90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	165.9 [48.6] 105.8 [31.0] 11.6	154.3 [45.2] 77.2 [22.6] 11.2	158.5 [46.4] 123.4 [36.2] 11.5	153.0 [44.8] 107.4 [31.5] 11.3	154.3 [45.2] 77.2 [22.6] 11.2	153.0 [44.8] 107.4 [31.5] 11.3	153.5 [45.0] 139.7 [40.9] 11.4	148.1 [43.4] 122.4 [35.9] 11.2	153.5 [45.0] 139.7 [40.9] 11.4	148.1 [43.4] 122.4 [35.9] 11.2	147.4 [43.2] 92.3 [27.0] 11.1	142.8 [41.8] 106.2 [31.1] 11.0
95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	161.4 [47.3] 103.3 [30.3] 12.1	150.0 [43.9] 75.3 [22.1] 11.6	154.0 [45.1] 120.9 [35.4] 12.0	148.6 [43.5] 105.2 [30.8] 11.8	150.0 [43.9] 75.3 [22.1] 11.6	148.6 [43.5] 105.2 [30.8] 11.8	149.0 [43.7] 137.2 [40.2] 11.9	143.8 [42.1] 120.3 [35.2] 11.7	149.0 [43.7] 137.2 [40.2] 11.9	143.8 [42.1] 120.3 [35.2] 11.7	143.2 [42.0] 90.5 [26.5] 11.6	138.5 [40.6] 104.3 [30.6] 11.5
100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	158.8 [45.9] 100.6 [29.5] 12.6	145.8 [42.7] 73.4 [21.5] 12.2	149.4 [43.8] 118.2 [34.6] 12.5	144.2 [42.3] 102.9 [30.1] 12.3	145.8 [42.7] 73.4 [21.5] 12.2	144.2 [42.3] 102.9 [30.1] 12.3	144.5 [42.3] 134.6 [39.4] 12.4	139.4 [40.8] 118.0 [34.6] 12.2	144.5 [42.3] 134.6 [39.4] 12.4	139.4 [40.8] 118.0 [34.6] 12.2	139.0 [40.7] 88.6 [26.0] 12.1	134.3 [39.3] 102.4 [30.0] 12.0
105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	152.3 [44.6] 98.0 [28.7] 13.2	141.6 [41.5] 71.5 [20.9] 12.7	144.9 [42.5] 115.6 [33.9] 13.1	139.8 [41.0] 100.6 [29.5] 12.9	141.6 [41.5] 71.5 [20.9] 12.7	139.8 [41.0] 100.6 [29.5] 12.9	139.9 [41.0] 131.9 [38.6] 13.0	135.0 [39.6] 115.7 [33.9] 12.8	139.9 [41.0] 131.9 [38.6] 13.0	135.0 [39.6] 115.7 [33.9] 12.8	134.8 [39.5] 86.7 [25.4] 12.6	130.1 [38.1] 100.5 [29.4] 12.5
110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	147.8 [43.3] 95.3 [27.9] 13.8	137.4 [40.3] 69.6 [20.4] 13.3	140.4 [41.1] 112.9 [33.1] 13.7	135.5 [39.7] 98.4 [28.8] 13.5	137.4 [40.3] 69.6 [20.4] 13.3	135.5 [39.7] 98.4 [28.8] 13.5	135.4 [39.7] 129.2 [37.9] 13.6	130.7 [38.3] 113.5 [33.3] 13.4	135.4 [39.7] 129.2 [37.9] 13.6	130.7 [38.3] 113.5 [33.3] 13.4	130.6 [38.3] 84.8 [24.8] 13.2	125.9 [36.9] 98.6 [28.9] 13.1
115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	143.3 [42.0] 92.6 [27.1] 14.4	133.3 [39.1] 67.7 [19.8] 13.9	135.9 [39.8] 110.1 [32.3] 14.3	131.2 [38.4] 96.0 [28.1] 14.1	133.3 [39.1] 67.7 [19.8] 13.9	131.2 [38.4] 96.0 [28.1] 14.1	130.9 [38.4] 126.4 [37.0] 14.2	126.4 [37.0] 111.1 [32.6] 14.0	130.9 [38.4] 126.4 [37.0] 14.2	126.4 [37.0] 111.1 [32.6] 14.0	126.4 [37.0] 82.7 [24.2] 13.8	121.8 [35.7] 96.6 [28.3] 13.7

DR — Depression ratio  
 dbE — Entering air dry bulb  
 w/E — Entering air wet bulb  
 Total — Total capacity x 1000 BTUH  
 Sens — Sensible capacity x 1000 BTUH  
 Power — kW Input

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

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA — RACDZT090A

WBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①														
		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]		3600 [1699]	2400 [1133]	1510 [700]	3200 [1699]	2400 [1133]	1510 [700]	3600 [1699]	2400 [1133]	1510 [700]	3200 [1699]	2400 [1133]	1510 [700]	3600 [1699]	2400 [1133]	1510 [700]
DR ①		0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2	0.22	0.14	0.2
75 [23.9]	Total BTUH [KW]	111.8 [32.8]	104.4 [30.6]	109.4 [32.0]	105.2 [30.8]	98.2 [28.8]	102.9 [30.1]	100.4 [29.4]	93.7 [27.5]	98.2 [28.8]	99.0 [29.0]	96.8 [28.4]	92.4 [27.1]	98.5 [28.9]	96.3 [28.2]	91.9 [26.9]
	Sens BTUH [KW]	65.6 [19.2]	54.7 [16.0]	62.0 [18.2]	77.6 [22.7]	64.8 [19.0]	73.4 [21.5]	89.5 [26.2]	84.5 [24.8]	74.7 [21.9]	89.9 [26.4]	89.5 [26.4]	89.9 [26.4]	79.4 [23.3]	95.1 [27.9]	84.0 [24.6]
80 [26.7]	Total BTUH [KW]	108.5 [31.8]	101.2 [29.7]	106.0 [31.1]	101.8 [29.8]	95.0 [27.8]	99.5 [29.2]	97.0 [28.4]	90.6 [26.5]	94.9 [27.8]	95.6 [28.0]	93.5 [27.4]	89.2 [26.2]	95.1 [27.9]	93.0 [27.2]	88.7 [26.0]
	Sens BTUH [KW]	63.8 [18.7]	53.3 [15.6]	60.3 [17.7]	75.9 [22.2]	63.3 [18.6]	71.7 [21.0]	87.7 [25.7]	82.9 [24.3]	73.2 [21.4]	83.4 [24.1]	88.3 [25.9]	88.3 [25.9]	78.0 [22.8]	93.0 [27.2]	82.5 [24.2]
85 [29.4]	Total BTUH [KW]	105.0 [30.8]	98.0 [28.7]	102.7 [30.1]	98.4 [28.8]	91.8 [26.9]	96.2 [28.2]	93.6 [27.4]	87.4 [25.6]	91.5 [26.8]	92.2 [27.0]	90.1 [26.4]	86.0 [25.2]	91.7 [26.9]	89.6 [26.3]	85.5 [25.1]
	Sens BTUH [KW]	62.1 [18.2]	51.8 [15.2]	58.7 [17.2]	74.1 [21.7]	61.9 [18.1]	70.0 [20.5]	86.0 [25.2]	81.2 [23.8]	71.7 [21.0]	81.7 [23.9]	86.6 [25.4]	86.6 [25.4]	76.5 [22.4]	91.7 [26.9]	81.1 [23.8]
90 [32.2]	Total BTUH [KW]	101.6 [29.8]	94.8 [27.8]	99.3 [29.1]	94.9 [27.8]	88.6 [26.0]	92.8 [27.2]	90.1 [26.4]	84.1 [24.7]	88.1 [25.8]	88.7 [26.0]	86.8 [25.4]	82.8 [24.4]	88.2 [25.8]	86.2 [25.3]	82.3 [24.1]
	Sens BTUH [KW]	60.3 [17.7]	50.4 [14.8]	57.0 [16.7]	72.4 [21.2]	60.4 [17.7]	68.4 [20.0]	84.2 [24.7]	79.6 [23.3]	70.3 [20.6]	88.7 [26.0]	85.0 [25.0]	83.3 [24.4]	88.2 [25.8]	86.2 [25.3]	79.6 [23.3]
95 [35]	Total BTUH [KW]	98.1 [28.7]	91.5 [26.8]	95.9 [28.1]	91.4 [26.8]	85.3 [25.0]	89.4 [26.2]	86.6 [25.4]	80.9 [23.7]	84.7 [24.8]	85.2 [25.0]	83.3 [24.4]	79.5 [23.3]	84.7 [24.8]	82.8 [24.3]	79.0 [23.2]
	Sens BTUH [KW]	58.6 [17.2]	48.9 [14.3]	55.4 [16.2]	70.7 [20.7]	59.0 [17.3]	66.8 [19.6]	82.5 [24.2]	78.0 [22.8]	68.9 [20.2]	85.2 [25.0]	83.3 [24.4]	81.1 [23.8]	84.7 [24.8]	82.8 [24.3]	78.2 [22.9]
100 [37.8]	Total BTUH [KW]	94.5 [27.7]	88.2 [25.9]	92.4 [27.1]	87.9 [25.8]	82.0 [24.0]	85.9 [25.2]	83.1 [24.4]	77.6 [22.7]	81.3 [23.8]	81.7 [23.9]	79.9 [23.4]	76.2 [22.3]	81.1 [23.8]	79.3 [23.3]	75.7 [22.2]
	Sens BTUH [KW]	57.0 [16.7]	47.5 [13.9]	53.8 [15.8]	69.0 [20.2]	57.6 [16.9]	65.2 [19.1]	80.8 [23.7]	76.4 [22.4]	67.5 [19.8]	81.7 [23.9]	79.9 [23.4]	77.6 [22.7]	81.1 [23.8]	79.3 [23.3]	75.7 [22.2]
105 [40.6]	Total BTUH [KW]	91.0 [26.7]	84.9 [24.9]	88.9 [26.1]	84.3 [24.7]	78.7 [23.1]	82.4 [24.2]	79.5 [23.3]	74.2 [21.8]	77.8 [22.8]	78.1 [22.9]	76.4 [22.4]	72.9 [21.4]	77.6 [22.7]	75.8 [22.2]	72.4 [21.2]
	Sens BTUH [KW]	55.3 [16.2]	46.1 [13.5]	52.2 [15.3]	67.3 [19.7]	56.2 [16.5]	63.6 [18.6]	79.2 [23.2]	74.8 [21.9]	66.1 [19.4]	78.1 [22.9]	76.4 [22.4]	70.8 [20.8]	77.6 [22.7]	75.8 [22.2]	72.4 [21.2]
110 [43.3]	Total BTUH [KW]	87.3 [25.6]	81.5 [23.9]	85.4 [25.0]	80.7 [23.6]	75.3 [22.1]	78.9 [23.1]	75.9 [22.2]	70.9 [20.8]	74.2 [21.5]	74.5 [21.8]	72.8 [21.3]	69.5 [20.4]	74.0 [21.7]	72.3 [21.2]	69.0 [20.2]
	Sens BTUH [KW]	53.6 [15.7]	44.8 [13.1]	50.7 [14.8]	65.7 [19.2]	54.8 [16.1]	62.1 [18.2]	75.9 [22.2]	73.2 [21.5]	64.7 [19.0]	74.5 [21.8]	72.8 [21.3]	69.5 [20.4]	74.0 [21.7]	72.3 [21.2]	69.0 [20.2]
115 [46.1]	Total BTUH [KW]	83.7 [24.5]	78.1 [22.9]	81.8 [24.0]	77.0 [22.6]	71.9 [21.1]	75.3 [22.1]	72.3 [21.2]	67.4 [19.8]	70.7 [20.7]	70.9 [20.8]	69.3 [20.3]	66.1 [19.4]	70.3 [20.6]	68.7 [20.1]	65.6 [19.2]
	Sens BTUH [KW]	52.0 [15.2]	43.4 [12.7]	49.1 [14.4]	64.0 [18.8]	53.4 [15.7]	60.5 [17.7]	72.3 [21.2]	70.7 [20.7]	63.3 [18.6]	70.9 [20.8]	69.3 [20.3]	66.1 [19.4]	70.3 [20.6]	68.7 [20.1]	65.6 [19.2]
120 [48.9]	Total BTUH [KW]	80.0 [23.4]	74.7 [21.9]	78.2 [22.9]	73.4 [21.5]	68.5 [20.1]	71.7 [21.0]	68.6 [20.1]	64.0 [18.8]	67.1 [19.6]	67.2 [19.7]	65.7 [19.2]	62.7 [18.4]	66.6 [19.5]	65.1 [19.1]	62.2 [18.2]
	Sens BTUH [KW]	50.4 [14.8]	42.0 [12.3]	47.6 [13.9]	62.4 [18.3]	52.1 [15.3]	59.0 [17.3]	68.6 [20.1]	67.1 [19.6]	62.0 [18.2]	67.2 [19.7]	65.7 [19.2]	62.7 [18.4]	66.6 [19.5]	65.1 [19.1]	62.2 [18.2]
125 [51.7]	Total BTUH [KW]	76.3 [22.4]	71.2 [20.9]	74.6 [21.9]	69.6 [20.4]	65.0 [19.0]	68.1 [20.0]	64.9 [19.0]	60.5 [17.7]	63.4 [18.6]	63.4 [18.6]	62.0 [18.2]	59.2 [17.4]	62.9 [18.4]	61.5 [18.0]	58.7 [17.2]
	Sens BTUH [KW]	48.8 [14.3]	40.7 [11.9]	46.1 [13.5]	60.8 [17.8]	50.8 [14.9]	57.5 [16.8]	64.9 [19.0]	63.4 [18.6]	60.5 [17.7]	63.4 [18.6]	62.0 [18.2]	59.2 [17.4]	62.9 [18.4]	61.5 [18.0]	58.7 [17.2]
Power		11.8	11.4	11.6	11.7	11.6	11.6	11.7	11.5	11.3	11.6	11.5	11.2	11.6	11.5	11.2

OUT DOOR DRY BULB TEMPERATURE °F [°C]

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

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

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

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA — RACDZT102A

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①														
		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]		
		4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]	4100 [1935]	3225 [1522]	2700 [1274]
		DR ①	0.17	0.14	0.21	0.17	0.14	0.21	0.17	0.14	0.21	0.17	0.14	0.21	0.17	0.14
75 [23.9]	Total BTUH [kW]	129.4 [37.9]	123.3 [36.1]	119.7 [35.1]	122.2 [35.8]	116.5 [34.1]	113.0 [33.1]	117.8 [34.5]	112.3 [32.9]	108.9 [31.9]	117.0 [34.3]	111.5 [32.7]	108.2 [31.7]	117.5 [34.4]	112.0 [32.8]	108.7 [31.8]
	Sens BTUH [kW]	75.0 [22.0]	66.6 [19.5]	61.5 [18.0]	90.0 [26.4]	79.9 [23.4]	73.9 [21.6]	103.7 [30.4]	92.0 [27.0]	85.0 [24.9]	109.7 [32.2]	97.4 [28.5]	90.0 [26.4]	115.0 [33.7]	102.1 [29.9]	94.3 [27.6]
	Power	6.1	6.0	5.9	6.1	5.9	5.9	6.0	5.9	5.8	6.0	5.8	5.8	5.9	5.8	5.7
80 [26.7]	Total BTUH [kW]	125.2 [36.7]	119.3 [35.0]	115.8 [33.9]	118.0 [34.6]	112.4 [33.0]	109.1 [32.0]	113.6 [33.3]	108.2 [31.7]	105.0 [30.8]	112.8 [33.1]	107.5 [31.5]	104.3 [30.6]	113.3 [33.2]	108.0 [31.6]	104.8 [30.7]
	Sens BTUH [kW]	72.9 [21.4]	64.8 [19.0]	59.8 [17.5]	88.0 [25.8]	78.1 [22.9]	72.1 [21.1]	101.6 [29.8]	90.2 [26.4]	83.3 [24.4]	107.6 [31.5]	95.5 [28.0]	88.3 [25.9]	112.9 [33.1]	100.2 [29.4]	92.6 [27.1]
	Power	6.5	6.3	6.3	6.4	6.3	6.2	6.4	6.2	6.1	6.3	6.2	6.1	6.3	6.2	6.1
85 [29.4]	Total BTUH [kW]	120.9 [35.4]	115.2 [33.8]	111.8 [32.8]	113.8 [33.3]	108.4 [31.8]	105.2 [30.8]	109.3 [32.0]	104.2 [30.5]	101.1 [29.6]	108.6 [31.8]	103.5 [30.3]	100.4 [29.4]	109.0 [32.0]	103.9 [30.5]	100.8 [29.5]
	Sens BTUH [kW]	70.8 [20.8]	62.9 [18.4]	58.1 [17.0]	85.8 [25.1]	76.2 [22.3]	70.4 [20.6]	99.5 [29.1]	88.3 [25.9]	81.6 [23.9]	105.5 [30.9]	93.6 [27.4]	86.5 [25.4]	109.0 [32.0]	98.3 [28.8]	90.9 [26.6]
	Power	6.9	6.7	6.6	6.8	6.7	6.6	6.7	6.6	6.5	6.7	6.6	6.5	6.7	6.5	6.4
90 [32.2]	Total BTUH [kW]	116.7 [34.2]	111.2 [32.6]	107.9 [31.6]	109.5 [32.1]	104.4 [30.6]	101.3 [29.7]	105.1 [30.8]	100.1 [29.3]	97.2 [28.5]	104.3 [30.6]	99.4 [29.1]	96.5 [28.3]	104.8 [30.7]	99.9 [29.3]	96.9 [28.4]
	Sens BTUH [kW]	68.6 [20.1]	60.9 [17.9]	56.3 [16.5]	83.6 [24.5]	74.2 [21.8]	68.6 [20.1]	97.3 [28.5]	86.4 [25.3]	79.8 [23.4]	103.3 [30.3]	91.7 [26.9]	84.8 [24.8]	104.8 [30.7]	96.4 [28.3]	89.1 [26.4]
	Power	7.3	7.1	7.0	7.2	7.1	7.0	7.2	7.0	6.9	7.1	7.0	6.9	7.1	6.9	6.8
95 [35]	Total BTUH [kW]	112.4 [32.9]	107.1 [31.4]	104.0 [30.5]	105.2 [30.8]	100.3 [29.4]	97.3 [28.5]	100.8 [29.5]	96.1 [28.2]	93.2 [27.3]	100.0 [29.3]	95.3 [27.9]	92.5 [27.1]	100.5 [29.5]	95.8 [28.1]	93.0 [27.2]
	Sens BTUH [kW]	66.4 [19.5]	59.0 [17.3]	54.5 [16.0]	81.4 [23.9]	72.3 [21.2]	66.8 [19.6]	95.1 [27.9]	84.4 [24.7]	78.0 [22.9]	100.0 [29.3]	89.8 [26.3]	82.9 [24.3]	100.5 [29.5]	94.5 [27.7]	87.3 [25.6]
	Power	7.7	7.6	7.5	7.7	7.5	7.4	7.6	7.4	7.3	7.6	7.4	7.3	7.5	7.4	7.3
100 [37.8]	Total BTUH [kW]	108.1 [31.7]	103.0 [30.2]	100.0 [29.3]	100.9 [29.6]	96.2 [28.2]	93.4 [27.4]	96.5 [28.3]	92.0 [27.0]	89.3 [26.2]	95.8 [28.1]	91.3 [26.7]	88.6 [26.0]	96.2 [28.2]	91.7 [26.9]	89.0 [26.1]
	Sens BTUH [kW]	64.2 [18.8]	57.0 [16.7]	52.6 [15.4]	79.2 [23.2]	70.3 [20.6]	65.0 [19.0]	92.8 [27.2]	82.4 [24.1]	76.1 [22.3]	95.8 [28.1]	87.8 [25.7]	81.1 [23.8]	96.2 [28.2]	91.7 [26.9]	85.4 [25.0]
	Power	8.2	8.0	7.9	8.2	8.0	7.9	8.1	7.9	7.8	8.1	7.9	7.8	8.0	7.8	7.7
105 [40.6]	Total BTUH [kW]	103.8 [30.4]	98.9 [29.0]	96.0 [28.1]	96.7 [28.3]	92.1 [27.0]	89.4 [26.2]	92.2 [27.0]	87.9 [25.8]	85.3 [25.0]	91.5 [26.8]	87.2 [25.5]	84.6 [24.8]	91.9 [26.9]	87.6 [25.7]	85.0 [24.9]
	Sens BTUH [kW]	61.9 [18.1]	54.9 [16.1]	50.8 [14.9]	76.9 [22.5]	68.3 [20.0]	63.1 [18.5]	90.6 [26.5]	80.4 [23.6]	74.3 [21.8]	91.5 [26.8]	85.7 [25.1]	79.2 [23.2]	91.9 [26.9]	87.6 [25.7]	83.6 [24.5]
	Power	8.7	8.5	8.4	8.7	8.5	8.3	8.6	8.4	8.3	8.6	8.4	8.2	8.5	8.3	8.2
110 [43.3]	Total BTUH [kW]	99.5 [29.2]	94.8 [27.8]	92.0 [27.0]	92.3 [27.1]	88.0 [25.8]	85.4 [25.0]	87.9 [25.8]	83.8 [24.6]	81.3 [23.8]	87.1 [25.5]	83.1 [24.3]	80.6 [23.6]	87.6 [25.7]	83.5 [24.5]	81.0 [23.7]
	Sens BTUH [kW]	59.6 [17.5]	52.9 [15.5]	48.9 [14.3]	74.6 [21.9]	66.2 [19.4]	61.2 [17.9]	87.9 [25.8]	78.3 [22.9]	72.4 [21.2]	87.1 [25.5]	83.1 [24.3]	77.3 [22.7]	87.6 [25.7]	83.5 [24.5]	81.0 [23.7]
	Power	9.3	9.1	9.0	9.2	9.0	8.9	9.1	8.9	8.8	9.1	8.9	8.8	9.1	8.9	8.7
115 [46.1]	Total BTUH [kW]	95.2 [27.9]	90.7 [26.6]	88.0 [25.8]	88.0 [25.8]	83.9 [24.6]	81.4 [23.9]	83.6 [24.5]	79.7 [23.3]	77.3 [22.7]	82.8 [24.3]	78.9 [23.1]	76.6 [22.4]	83.3 [24.4]	79.4 [23.3]	77.0 [22.6]
	Sens BTUH [kW]	57.2 [16.8]	50.8 [14.9]	46.9 [13.8]	72.2 [21.2]	64.1 [18.8]	59.2 [17.4]	83.6 [24.5]	76.2 [22.3]	70.4 [20.6]	82.8 [24.3]	78.9 [23.1]	75.4 [22.1]	83.3 [24.4]	79.4 [23.3]	77.0 [22.6]
	Power	9.8	9.6	9.5	9.8	9.6	9.4	9.7	9.5	9.4	9.7	9.5	9.3	9.7	9.4	9.3
120 [48.9]	Total BTUH [kW]	90.8 [26.6]	86.6 [25.4]	84.0 [24.6]	83.7 [24.5]	79.7 [23.2]	77.4 [22.7]	79.2 [23.2]	75.5 [22.1]	73.3 [21.5]	78.5 [23.0]	74.8 [21.9]	72.6 [21.3]	78.9 [23.1]	75.2 [22.0]	73.0 [21.4]
	Sens BTUH [kW]	54.8 [16.1]	48.6 [14.3]	45.0 [13.2]	69.8 [20.5]	62.0 [18.2]	57.3 [16.8]	79.2 [23.2]	74.1 [21.7]	68.5 [20.1]	78.5 [23.0]	74.8 [21.9]	72.6 [21.3]	78.9 [23.1]	75.2 [22.0]	73.0 [21.4]
	Power	10.5	10.2	10.1	10.4	10.1	10.0	10.3	10.1	9.9	10.3	10.0	9.9	10.3	10.0	9.9
125 [51.7]	Total BTUH [kW]	86.5 [25.3]	82.4 [24.2]	80.0 [23.4]	79.3 [23.2]	75.6 [22.1]	73.3 [21.5]	74.9 [21.9]	71.4 [20.9]	69.3 [20.3]	74.1 [21.7]	70.6 [20.7]	68.5 [20.1]	74.6 [21.9]	71.1 [20.8]	69.0 [20.2]
	Sens BTUH [kW]	52.4 [15.3]	46.5 [13.6]	42.9 [12.6]	67.4 [19.7]	59.8 [17.5]	55.3 [16.2]	74.9 [21.9]	71.4 [20.9]	66.4 [19.5]	74.1 [21.7]	70.6 [20.7]	68.5 [20.1]	74.6 [21.9]	71.1 [20.8]	69.0 [20.2]
	Power	11.1	10.8	10.7	11.0	10.8	10.6	11.0	10.7	10.5	10.9	10.7	10.5	10.9	10.6	10.5

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

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

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

[ ] Designates Metric Conversions



# COOLING PERFORMANCE DATA — RACDZT120A

wBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		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]	DR ①	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]
75 [23.9]	Total BTUH [kW]	155.3 [45.5]	147.8 [43.3]	143.8 [42.3]	147.8 [43.3]	140.7 [41.2]	136.9 [40.1]	142.8 [41.8]	135.8 [39.8]	132.2 [38.7]	141.5 [41.5]	134.7 [39.5]	131.1 [38.4]
	Sens BTUH [kW]	97.3 [28.5]	86.1 [25.2]	80.2 [23.5]	115.8 [33.9]	102.4 [30.0]	95.4 [28.0]	132.9 [38.9]	117.5 [34.4]	109.5 [32.1]	140.6 [41.2]	124.3 [36.4]	115.8 [33.9]
	Power	7.5	7.3	7.2	7.4	7.2	7.1	7.3	7.1	7.0	7.2	7.1	7.0
80 [26.7]	Total BTUH [kW]	150.6 [44.1]	143.4 [42.0]	139.5 [40.9]	143.2 [42.0]	136.2 [39.9]	132.6 [38.9]	138.1 [40.5]	131.4 [38.5]	127.9 [37.5]	136.9 [40.1]	130.2 [38.2]	126.8 [37.1]
	Sens BTUH [kW]	94.9 [27.8]	84.0 [24.6]	78.2 [22.9]	113.5 [33.2]	100.3 [29.4]	93.5 [27.4]	130.5 [38.2]	115.4 [33.8]	107.5 [31.5]	136.9 [40.1]	122.2 [35.8]	113.8 [33.4]
	Power	7.9	7.7	7.6	7.8	7.6	7.5	7.7	7.5	7.4	7.7	7.5	7.4
85 [29.4]	Total BTUH [kW]	146.0 [42.8]	138.9 [40.7]	135.2 [39.6]	138.5 [40.6]	131.8 [38.6]	128.3 [37.6]	133.5 [39.1]	127.0 [37.2]	123.6 [36.2]	132.2 [38.7]	125.8 [36.9]	122.5 [35.9]
	Sens BTUH [kW]	92.5 [27.1]	81.8 [24.0]	76.2 [22.3]	111.0 [32.5]	98.2 [28.8]	91.5 [26.8]	128.1 [37.5]	113.3 [33.2]	105.5 [30.9]	132.2 [38.7]	120.1 [35.2]	111.9 [32.8]
	Power	8.3	8.1	8.0	8.2	8.0	7.9	8.2	8.0	7.9	8.1	7.9	7.8
90 [32.2]	Total BTUH [kW]	141.4 [41.4]	134.5 [39.4]	131.0 [38.4]	133.9 [39.2]	127.4 [37.3]	124.0 [36.3]	128.8 [37.8]	122.6 [35.9]	119.3 [35.0]	127.6 [37.4]	121.4 [35.6]	118.2 [34.6]
	Sens BTUH [kW]	90.1 [26.4]	79.7 [23.3]	74.2 [21.7]	108.6 [31.8]	96.0 [28.1]	89.5 [26.2]	125.6 [36.8]	111.1 [32.6]	103.5 [30.3]	127.6 [37.4]	117.9 [34.5]	109.8 [32.2]
	Power	8.8	8.6	8.5	8.7	8.5	8.4	8.6	8.4	8.3	8.6	8.4	8.3
95 [35]	Total BTUH [kW]	136.8 [40.1]	130.2 [38.1]	126.7 [37.1]	129.3 [37.9]	123.0 [36.1]	119.7 [35.1]	124.2 [36.4]	118.2 [34.6]	115.1 [33.7]	123.0 [36.0]	117.0 [34.3]	113.9 [33.4]
	Sens BTUH [kW]	87.6 [25.7]	77.5 [22.7]	72.2 [21.1]	106.1 [31.1]	93.8 [27.5]	87.4 [25.6]	123.1 [36.1]	108.9 [31.9]	101.5 [29.7]	123.0 [36.0]	115.7 [33.9]	107.8 [31.6]
	Power	9.3	9.1	9.0	9.2	9.0	8.9	9.1	8.9	8.8	9.1	8.9	8.8
100 [37.8]	Total BTUH [kW]	132.2 [38.7]	125.8 [36.9]	122.4 [35.9]	124.7 [36.5]	118.7 [34.8]	115.5 [33.8]	119.6 [35.1]	113.8 [33.4]	110.8 [32.5]	118.4 [34.7]	112.7 [33.0]	109.7 [32.1]
	Sens BTUH [kW]	85.1 [24.9]	75.2 [22.0]	70.1 [20.5]	103.6 [30.3]	91.6 [26.8]	85.3 [25.0]	119.6 [35.1]	106.7 [31.3]	99.4 [29.1]	118.4 [34.7]	112.7 [33.0]	105.7 [31.0]
	Power	9.9	9.6	9.5	9.8	9.5	9.4	9.7	9.5	9.3	9.6	9.4	9.2
105 [40.6]	Total BTUH [kW]	127.6 [37.4]	121.4 [35.6]	118.2 [34.6]	120.1 [35.2]	114.3 [33.5]	111.2 [32.6]	115.1 [33.7]	109.5 [32.1]	106.6 [31.2]	113.8 [33.4]	108.3 [31.7]	105.4 [30.9]
	Sens BTUH [kW]	82.5 [24.2]	73.0 [21.4]	68.0 [19.9]	101.0 [29.6]	89.3 [26.2]	83.2 [24.4]	115.1 [33.7]	104.4 [30.6]	97.3 [28.5]	113.8 [33.4]	108.3 [31.7]	103.6 [30.4]
	Power	10.5	10.2	10.1	10.4	10.1	10.0	10.3	10.0	9.9	10.2	10.0	9.8
110 [43.3]	Total BTUH [kW]	123.0 [36.1]	117.1 [34.3]	114.0 [33.4]	115.5 [33.9]	109.9 [32.2]	107.0 [31.4]	110.5 [32.4]	105.1 [30.8]	102.3 [30.0]	109.3 [32.0]	104.0 [30.5]	101.2 [29.7]
	Sens BTUH [kW]	79.9 [23.4]	70.6 [20.7]	65.8 [19.3]	98.4 [28.8]	87.0 [25.5]	81.1 [23.8]	110.5 [32.4]	102.1 [29.9]	95.1 [27.9]	109.3 [32.0]	104.0 [30.5]	101.2 [29.7]
	Power	11.1	10.8	10.7	11.0	10.7	10.6	10.9	10.6	10.5	10.8	10.6	10.4
115 [46.1]	Total BTUH [kW]	118.5 [34.7]	112.7 [33.0]	109.7 [32.2]	111.0 [32.5]	105.6 [31.0]	102.8 [30.1]	105.9 [31.0]	100.8 [29.5]	98.1 [28.8]	104.7 [30.7]	99.6 [29.2]	97.0 [28.4]
	Sens BTUH [kW]	77.2 [22.6]	68.3 [20.0]	63.6 [18.6]	95.7 [28.1]	84.7 [24.8]	78.9 [23.1]	105.9 [31.0]	99.8 [29.2]	92.9 [27.2]	104.7 [30.7]	99.6 [29.2]	97.0 [28.4]
	Power	11.7	11.4	11.3	11.6	11.3	11.2	11.5	11.2	11.1	11.5	11.2	11.1
120 [48.9]	Total BTUH [kW]	113.9 [33.4]	108.4 [31.8]	105.5 [30.9]	106.5 [31.2]	101.3 [29.1]	98.6 [28.9]	101.4 [29.7]	96.5 [28.3]	93.9 [27.5]	100.2 [29.4]	95.3 [27.9]	92.8 [27.2]
	Sens BTUH [kW]	74.5 [21.8]	65.9 [19.3]	61.4 [18.0]	93.0 [27.3]	82.3 [24.1]	76.7 [22.5]	101.4 [29.7]	96.5 [28.3]	90.7 [26.6]	100.2 [29.4]	95.3 [27.9]	92.8 [27.2]
	Power	12.4	12.1	11.9	12.3	12.0	11.8	12.2	11.9	11.7	12.1	11.9	11.7
125 [51.7]	Total BTUH [kW]	109.4 [32.1]	104.1 [30.5]	101.3 [29.7]	101.9 [29.9]	97.0 [28.4]	94.4 [27.7]	96.9 [28.4]	92.2 [27.0]	89.7 [26.3]	95.6 [28.0]	91.0 [26.7]	88.6 [26.0]
	Sens BTUH [kW]	71.8 [21.0]	63.5 [18.6]	59.2 [17.3]	90.3 [26.5]	79.9 [23.4]	74.4 [21.8]	96.9 [28.4]	92.2 [27.0]	88.5 [25.9]	95.6 [28.0]	91.0 [26.7]	88.6 [26.0]
	Power	13.1	12.8	12.6	13.0	12.7	12.5	12.9	12.6	12.4	12.9	12.5	12.3

**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 - DR) x CFM x (1 - DR) x (dbE - 80)].

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

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

[ ] Designates Metric Conversions



# COOLING PERFORMANCE DATA — RACDZT150A

wDE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		71°F [21.7°C]				67°F [19.4°C]				63°F [17.2°C]			
		4500 [2124]	3000 [1416]	3750 [1770]	0	4500 [2124]	3000 [1416]	3750 [1770]	0	4500 [2124]	3000 [1416]	3750 [1770]	0
75 [23.9]	Total BTUH [kW]	179.6 [52.6]	167.0 [48.9]	173.3 [50.8]	0	172.2 [50.5]	166.2 [48.7]	161.4 [47.3]	167.3 [49.0]	160.2 [46.9]	161.4 [47.3]	155.5 [45.6]	
	Sens BTUH [kW]	113.4 [33.2]	82.6 [24.2]	97.4 [28.5]	0	131.0 [38.4]	113.8 [33.3]	128.9 [37.8]	147.4 [43.2]	97.7 [28.6]	128.9 [37.8]	111.5 [32.7]	
	Power	10.2	9.9	10.0	0	10.1	9.9	9.9	10.0	9.8	9.9	9.7	
80 [26.7]	Total BTUH [kW]	175.0 [51.3]	162.8 [47.7]	168.9 [49.5]	0	167.6 [49.1]	161.8 [47.4]	157.0 [46.0]	162.7 [47.7]	155.9 [45.7]	157.0 [46.0]	151.3 [44.3]	
	Sens BTUH [kW]	110.9 [32.5]	80.9 [23.7]	95.3 [27.9]	0	128.5 [37.7]	111.7 [32.7]	126.8 [37.2]	144.9 [42.5]	95.9 [28.1]	126.8 [37.2]	109.8 [32.2]	
	Power	10.6	10.3	10.4	0	10.5	10.4	10.3	10.4	10.2	10.3	10.1	
85 [29.4]	Total BTUH [kW]	170.5 [50.0]	158.5 [46.4]	164.5 [48.2]	0	163.1 [47.8]	157.4 [46.1]	152.5 [44.7]	158.1 [46.3]	151.6 [44.4]	152.5 [44.7]	147.0 [43.1]	
	Sens BTUH [kW]	108.5 [31.8]	79.1 [23.2]	93.2 [27.3]	0	126.1 [36.9]	109.6 [32.1]	124.6 [36.5]	142.4 [41.7]	94.1 [27.6]	124.6 [36.5]	108.0 [31.6]	
	Power	11.1	10.7	10.9	0	11.0	10.8	10.7	10.9	10.6	10.7	10.5	
90 [32.2]	Total BTUH [kW]	165.9 [48.6]	154.3 [45.2]	160.1 [46.9]	0	158.5 [46.4]	153.0 [44.8]	148.1 [43.4]	153.5 [45.0]	147.4 [43.2]	148.1 [43.4]	142.8 [41.8]	
	Sens BTUH [kW]	105.8 [31.0]	77.2 [22.6]	91.0 [26.7]	0	123.4 [36.2]	107.4 [31.5]	122.4 [35.9]	139.7 [40.9]	92.3 [27.0]	122.4 [35.9]	106.2 [31.1]	
	Power	11.6	11.2	11.4	0	11.5	11.3	11.2	11.4	11.1	11.2	11.0	
95 [35]	Total BTUH [kW]	161.4 [47.3]	150.0 [43.9]	155.7 [45.6]	0	154.0 [45.1]	148.6 [43.5]	143.8 [42.1]	149.0 [43.7]	143.2 [42.0]	143.8 [42.1]	138.5 [40.6]	
	Sens BTUH [kW]	103.3 [30.3]	75.3 [22.1]	88.8 [26.0]	0	120.9 [35.4]	105.2 [30.8]	120.3 [35.2]	137.2 [40.2]	90.5 [26.5]	120.3 [35.2]	104.3 [30.6]	
	Power	12.1	11.6	11.9	0	12.0	11.8	11.7	11.9	11.6	11.7	11.5	
100 [37.8]	Total BTUH [kW]	158.8 [45.9]	145.8 [42.7]	151.3 [44.3]	0	149.4 [43.8]	144.2 [42.3]	139.4 [40.8]	144.5 [42.3]	139.0 [40.7]	139.4 [40.8]	134.3 [39.3]	
	Sens BTUH [kW]	100.6 [29.5]	73.4 [21.5]	86.5 [25.3]	0	118.2 [34.6]	102.9 [30.1]	118.0 [34.6]	134.6 [39.4]	88.6 [26.0]	118.0 [34.6]	102.4 [30.0]	
	Power	12.6	12.2	12.4	0	12.5	12.3	12.2	12.4	12.1	12.2	12.0	
105 [40.6]	Total BTUH [kW]	152.3 [44.6]	141.6 [41.5]	147.0 [43.1]	0	144.9 [42.5]	139.8 [41.0]	135.0 [39.6]	139.9 [41.0]	134.8 [39.5]	135.0 [39.6]	130.1 [38.1]	
	Sens BTUH [kW]	98.0 [28.7]	71.5 [20.9]	84.3 [24.7]	0	115.6 [33.9]	100.6 [29.5]	115.7 [33.9]	131.9 [38.6]	86.7 [25.4]	115.7 [33.9]	100.5 [29.4]	
	Power	13.2	12.7	13.0	0	13.1	12.9	12.8	13.0	12.6	12.8	12.5	
110 [43.3]	Total BTUH [kW]	147.8 [43.3]	137.4 [40.3]	142.6 [41.8]	0	140.4 [41.1]	135.5 [39.7]	130.7 [38.3]	135.4 [39.7]	130.6 [38.3]	130.7 [38.3]	125.9 [36.9]	
	Sens BTUH [kW]	95.3 [27.9]	69.6 [20.4]	82.0 [24.0]	0	112.9 [33.1]	98.4 [28.8]	113.5 [33.3]	129.2 [37.9]	84.8 [24.8]	113.5 [33.3]	98.6 [28.9]	
	Power	13.8	13.3	13.5	0	13.7	13.5	13.4	13.6	13.2	13.4	13.1	
115 [46.1]	Total BTUH [kW]	143.3 [42.0]	133.3 [39.1]	138.3 [40.5]	0	135.9 [39.8]	131.2 [38.4]	126.4 [37.0]	130.9 [38.4]	126.4 [37.0]	126.4 [37.0]	121.8 [35.7]	
	Sens BTUH [kW]	92.6 [27.1]	67.7 [19.8]	79.7 [23.4]	0	110.1 [32.3]	96.0 [28.1]	111.1 [32.6]	126.4 [37.0]	82.7 [24.2]	111.1 [32.6]	96.6 [28.3]	
	Power	14.4	13.9	14.2	0	14.3	14.1	14.0	14.2	13.8	14.0	13.7	

[ ] Designates Metric Conversions

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

DR — Depression ratio  
 dbE — Entering air dry bulb  
 wDE — Entering air wet bulb  
 Total — Total capacity x 1000 BTUH  
 Sens — Sensible capacity x 1000 BTUH  
 Power — KW Input



## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZS090

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			1800 [850]	1700 [802]	1200 [566]	1800 [850]	1700 [802]	1200 [566]	1800 [850]	1700 [802]	1200 [566]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	29.7 [8.7]	29.4 [8.6]	27.9 [8.2]	27.0 [7.9]	26.7 [7.8]	25.3 [7.4]	26.6 [7.8]	26.4 [7.7]	24.9 [7.3]
		Sens BTUH [kW]	6.5 [1.9]	6.3 [1.8]	5.4 [1.6]	9.0 [2.6]	8.7 [2.6]	7.5 [2.2]	11.4 [3.4]	11.1 [3.3]	9.6 [2.8]
		Power	3.2	3.1	3.1	3.2	3.2	3.1	3.2	3.2	3.2
	65 [18.3]	Total BTUH [kW]	29.5 [8.6]	29.2 [8.5]	27.6 [8.1]	26.7 [7.8]	26.4 [7.7]	25.0 [7.3]	26.4 [7.7]	26.1 [7.6]	24.7 [7.2]
		Sens BTUH [kW]	5.0 [1.5]	4.9 [1.4]	4.2 [1.2]	7.6 [2.2]	7.4 [2.2]	6.3 [1.9]	10.0 [2.9]	9.7 [2.9]	8.4 [2.5]
		Power	3.2	3.2	3.1	3.3	3.2	3.2	3.2	3.2	3.2
	70 [21.1]	Total BTUH [kW]	28.8 [8.4]	28.5 [8.4]	27.0 [7.9]	26.0 [7.6]	25.8 [7.6]	24.4 [7.1]	25.7 [7.5]	25.4 [7.5]	24.1 [7.1]
Sens BTUH [kW]		3.7 [1.1]	3.6 [1.0]	3.1 [0.9]	6.2 [1.8]	6.0 [1.8]	5.2 [1.5]	8.6 [2.5]	8.4 [2.5]	7.2 [2.1]	
Power		3.2	3.2	3.1	3.3	3.3	3.2	3.3	3.3	3.2	
75 [23.9]	Total BTUH [kW]	27.8 [8.1]	27.5 [8.1]	26.0 [7.6]	25.0 [7.3]	24.7 [7.2]	23.4 [6.9]	24.7 [7.2]	24.4 [7.2]	23.1 [6.8]	
	Sens BTUH [kW]	2.3 [0.7]	2.3 [0.7]	2.0 [0.6]	4.9 [1.4]	4.7 [1.4]	4.1 [1.2]	7.3 [2.1]	7.1 [2.1]	6.1 [1.8]	
	Power	3.3	3.3	3.2	3.4	3.4	3.3	3.4	3.4	3.3	
80 [26.7]	Total BTUH [kW]	26.3 [7.7]	26.0 [7.6]	24.6 [7.2]	23.5 [6.9]	23.3 [6.8]	22.1 [6.5]	23.2 [6.8]	23.0 [6.7]	21.7 [6.4]	
	Sens BTUH [kW]	1.1 [0.3]	1.0 [0.3]	0.9 [0.3]	3.6 [1.0]	3.5 [1.0]	3.0 [0.9]	6.0 [1.8]	5.9 [1.7]	5.1 [1.5]	
	Power	3.4	3.4	3.3	3.5	3.5	3.4	3.5	3.5	3.4	
85 [29.4]	Total BTUH [kW]	24.5 [7.2]	24.2 [7.1]	22.9 [6.7]	21.7 [6.4]	21.5 [6.3]	20.3 [6.0]	21.4 [6.3]	21.1 [6.2]	20.0 [5.9]	
	Sens BTUH [kW]	-0.2 [-0.1]	-0.2 [0.0]	-0.1 [0.0]	2.4 [0.7]	2.3 [0.7]	2.0 [0.6]	4.8 [1.4]	4.7 [1.4]	4.0 [1.2]	
	Power	3.6	3.6	3.5	3.7	3.6	3.6	3.6	3.6	3.5	
90 [32.2]	Total BTUH [kW]	22.2 [6.5]	22.0 [6.4]	20.8 [6.1]	19.5 [5.7]	19.3 [5.6]	18.2 [5.3]	19.1 [5.6]	18.9 [5.5]	17.9 [5.3]	
	Sens BTUH [kW]	-1.3 [-0.4]	-1.3 [-0.4]	-1.1 [-0.3]	1.2 [0.3]	1.1 [0.3]	1.0 [0.3]	3.6 [1.1]	3.5 [1.0]	3.0 [0.9]	
	Power	3.8	3.7	3.6	3.8	3.8	3.7	3.8	3.8	3.7	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZS090

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			3600 [1699]	2900 [1369]	2400 [1133]	3600 [1699]	2900 [1369]	2400 [1133]	3600 [1699]	2900 [1369]	2400 [1133]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	41.7 [12.2]	39.9 [11.7]	38.7 [11.3]	40.1 [11.8]	38.4 [11.3]	37.2 [10.9]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]
		Sens BTUH [kW]	8.9 [2.6]	8.0 [2.4]	7.4 [2.2]	12.8 [3.7]	11.5 [3.4]	10.5 [3.1]	18.5 [5.4]	16.7 [4.9]	15.3 [4.5]
		Power	5.0	4.9	4.8	4.9	4.8	4.8	4.9	4.8	4.8
	70 [21.1]	Total BTUH [kW]	39.8 [11.7]	38.1 [11.2]	36.9 [10.8]	38.3 [11.2]	36.7 [10.7]	35.5 [10.4]	38.1 [11.2]	36.5 [10.7]	35.4 [10.4]
		Sens BTUH [kW]	5.9 [1.7]	5.3 [1.6]	4.9 [1.4]	9.8 [2.9]	8.8 [2.6]	8.1 [2.4]	15.5 [4.6]	14.0 [4.1]	12.8 [3.8]
		Power	5.1	5.0	4.9	5.1	5.0	4.9	5.0	4.9	4.9
	80 [26.7]	Total BTUH [kW]	36.7 [10.7]	35.1 [10.3]	34.0 [10.0]	35.1 [10.3]	33.7 [9.9]	32.6 [9.6]	35.0 [10.3]	33.5 [9.8]	32.5 [9.5]
Sens BTUH [kW]		2.1 [0.6]	1.9 [0.5]	1.7 [0.5]	5.9 [1.7]	5.3 [1.6]	4.9 [1.4]	11.7 [3.4]	10.5 [3.1]	9.6 [2.8]	
Power		5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	32.3 [9.5]	30.9 [9.1]	30.0 [8.8]	30.8 [9.0]	29.5 [8.6]	28.5 [8.4]	30.6 [9.0]	29.3 [8.6]	28.4 [8.3]	
	Sens BTUH [kW]	-2.7 [-0.8]	-2.4 [-0.7]	-2.2 [-0.6]	1.2 [0.3]	1.0 [0.3]	1.0 [0.3]	6.9 [2.0]	6.2 [1.8]	5.7 [1.7]	
	Power	5.8	5.6	5.6	5.7	5.6	5.5	5.7	5.6	5.5	
100 [37.8]	Total BTUH [kW]	26.7 [7.8]	25.5 [7.5]	24.7 [7.3]	25.1 [7.4]	24.1 [7.1]	23.3 [6.8]	25.0 [7.3]	23.9 [7.0]	23.2 [6.8]	
	Sens BTUH [kW]	-8.3 [-2.4]	-7.4 [-2.2]	-6.8 [-2.0]	-4.4 [-1.3]	-4.0 [-1.2]	-3.7 [-1.1]	1.3 [0.4]	1.2 [0.4]	1.1 [0.3]	
	Power	6.3	6.2	6.1	6.2	6.1	6.0	6.2	6.1	6.0	
110 [43.3]	Total BTUH [kW]	19.8 [5.8]	19.0 [5.6]	18.4 [5.4]	18.3 [5.4]	17.5 [5.1]	17.0 [5.0]	18.1 [5.3]	17.4 [5.1]	16.8 [4.9]	
	Sens BTUH [kW]	-14.7 [-4.3]	-13.2 [-3.9]	-12.2 [-3.6]	-10.9 [-3.2]	-9.8 [-2.9]	-9.0 [-2.6]	-5.1 [-1.5]	-4.6 [-1.4]	-4.2 [-1.2]	
	Power	6.9	6.8	6.7	6.9	6.7	6.6	6.9	6.7	6.6	
120 [48.9]	Total BTUH [kW]	11.7 [3.4]	11.2 [3.3]	10.8 [3.2]	10.1 [3.0]	9.7 [2.8]	9.4 [2.8]	10.0 [2.9]	9.6 [2.8]	9.3 [2.7]	
	Sens BTUH [kW]	-22.1 [-6.5]	-19.8 [-5.8]	-18.2 [-5.3]	-18.2 [-5.3]	-16.4 [-4.8]	-15.1 [-4.4]	-12.5 [-3.7]	-11.2 [-3.3]	-10.3 [-3.0]	
	Power	7.8	7.6	7.5	7.7	7.5	7.4	7.7	7.5	7.4	





## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZS102

		ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①									
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		2100 [991]	1700 [802]	1400 [661]	2100 [991]	1700 [802]	1400 [661]	2100 [991]	1700 [802]	1400 [661]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	36.6 [10.7]	35.1 [10.3]	33.9 [9.9]	34.5 [10.1]	33.1 [9.7]	32.1 [9.4]	31.9 [9.3]	30.6 [9.0]	29.6 [8.7]
		Sens BTUH [kW]	7.1 [2.1]	6.4 [1.9]	5.9 [1.7]	9.0 [2.6]	8.1 [2.4]	7.4 [2.2]	10.7 [3.1]	9.7 [2.8]	8.9 [2.6]
		Power	3.9	3.8	3.7	3.8	3.8	3.7	3.8	3.8	3.7
	65 [18.3]	Total BTUH [kW]	35.5 [10.4]	34.0 [10.0]	32.9 [9.6]	33.4 [9.8]	32.1 [9.4]	31.0 [9.1]	30.8 [9.0]	29.5 [8.6]	28.6 [8.4]
		Sens BTUH [kW]	6.1 [1.8]	5.5 [1.6]	5.0 [1.5]	8.0 [2.3]	7.2 [2.1]	6.6 [1.9]	9.7 [2.8]	8.7 [2.6]	8.0 [2.4]
		Power	3.9	3.8	3.8	3.9	3.8	3.8	3.9	3.8	3.8
	70 [21.1]	Total BTUH [kW]	34.1 [10.0]	32.7 [9.6]	31.7 [9.3]	32.1 [9.4]	30.8 [9.0]	29.8 [8.7]	29.5 [8.6]	28.3 [8.3]	27.4 [8.0]
Sens BTUH [kW]		4.8 [1.4]	4.3 [1.3]	4.0 [1.2]	6.7 [2.0]	6.0 [1.8]	5.5 [1.6]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]	
Power		4.0	3.9	3.9	4.0	3.9	3.9	4.0	3.9	3.9	
75 [23.9]	Total BTUH [kW]	32.7 [9.6]	31.3 [9.2]	30.3 [8.9]	30.6 [9.0]	29.4 [8.6]	28.4 [8.3]	28.0 [8.2]	26.8 [7.9]	26.0 [7.6]	
	Sens BTUH [kW]	3.3 [1.0]	3.0 [0.9]	2.8 [0.8]	5.2 [1.5]	4.7 [1.4]	4.3 [1.3]	7.0 [2.0]	6.3 [1.8]	5.8 [1.7]	
	Power	4.1	4.0	4.0	4.1	4.0	4.0	4.1	4.0	4.0	
80 [26.7]	Total BTUH [kW]	31.0 [9.1]	29.7 [8.7]	28.8 [8.4]	29.0 [8.5]	27.8 [8.1]	26.9 [7.9]	26.3 [7.7]	25.2 [7.4]	24.4 [7.2]	
	Sens BTUH [kW]	1.7 [0.5]	1.5 [0.4]	1.4 [0.4]	3.6 [1.0]	3.2 [0.9]	2.9 [0.9]	5.3 [1.6]	4.8 [1.4]	4.4 [1.3]	
	Power	4.3	4.2	4.1	4.3	4.2	4.1	4.3	4.2	4.1	
85 [29.4]	Total BTUH [kW]	29.1 [8.5]	27.9 [8.2]	27.0 [7.9]	27.1 [7.9]	26.0 [7.6]	25.1 [7.4]	24.4 [7.2]	23.4 [6.9]	22.7 [6.6]	
	Sens BTUH [kW]	-0.2 [-0.1]	-0.2 [-0.1]	-0.2 [-0.1]	1.7 [0.5]	1.5 [0.4]	1.4 [0.4]	3.4 [1.0]	3.1 [0.9]	2.8 [0.8]	
	Power	4.4	4.3	4.3	4.4	4.3	4.3	4.4	4.3	4.3	
90 [32.2]	Total BTUH [kW]	27.1 [7.9]	26.0 [7.6]	25.1 [7.4]	25.0 [7.3]	24.0 [7.0]	23.2 [6.8]	22.4 [6.6]	21.5 [6.3]	20.8 [6.1]	
	Sens BTUH [kW]	-2.3 [-0.7]	-2.1 [-0.6]	-1.9 [-0.6]	-0.4 [-0.1]	-0.4 [-0.1]	-0.4 [-0.1]	1.3 [0.4]	1.2 [0.3]	1.1 [0.3]	
	Power	4.6	4.5	4.4	4.6	4.5	4.4	4.6	4.5	4.4	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZS102

		ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①									
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		4100 [1935]	2900 [1369]	2700 [1274]	4100 [1935]	2900 [1369]	2700 [1274]	4100 [1935]	2900 [1369]	2700 [1274]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	57.6 [16.9]	53.6 [15.7]	52.9 [15.5]	45.7 [13.4]	42.5 [12.5]	42.0 [12.3]	51.3 [15.0]	47.7 [14.0]	47.1 [13.8]
		Sens BTUH [kW]	12.7 [3.7]	10.7 [3.1]	10.3 [3.0]	14.6 [4.3]	12.2 [3.6]	11.8 [3.5]	20.5 [6.0]	17.2 [5.0]	16.6 [4.9]
		Power	6.6	6.4	6.3	5.2	5.0	5.0	6.3	6.1	6.0
	70 [21.1]	Total BTUH [kW]	52.7 [15.5]	49.1 [14.4]	48.4 [14.2]	40.9 [12.0]	38.0 [11.1]	37.5 [11.0]	46.4 [13.6]	43.2 [12.7]	42.6 [12.5]
		Sens BTUH [kW]	10.1 [3.0]	8.5 [2.5]	8.2 [2.4]	11.9 [3.5]	10.0 [2.9]	9.7 [2.8]	17.9 [5.2]	15.0 [4.4]	14.5 [4.2]
		Power	6.4	6.1	6.1	5.0	4.8	4.8	6.0	5.8	5.8
	80 [26.7]	Total BTUH [kW]	46.3 [13.6]	43.1 [12.6]	42.6 [12.5]	34.5 [10.1]	32.1 [9.4]	31.6 [9.3]	40.0 [11.7]	37.2 [10.9]	36.7 [10.8]
Sens BTUH [kW]		5.6 [1.6]	4.7 [1.4]	4.5 [1.3]	7.4 [2.2]	6.2 [1.8]	6.0 [1.8]	13.3 [3.9]	11.2 [3.3]	10.8 [3.2]	
Power		6.4	6.1	6.1	5.0	4.8	4.8	6.1	5.8	5.8	
90 [32.2]	Total BTUH [kW]	38.4 [11.2]	35.7 [10.5]	35.2 [10.3]	26.5 [7.8]	24.7 [7.2]	24.3 [7.1]	32.1 [9.4]	29.8 [8.7]	29.4 [8.6]	
	Sens BTUH [kW]	-0.9 [-0.3]	-0.7 [-0.2]	-0.7 [-0.2]	0.9 [0.3]	0.8 [0.2]	0.8 [0.2]	6.9 [2.0]	5.8 [1.7]	5.6 [1.6]	
	Power	6.6	6.4	6.4	5.2	5.1	5.0	6.3	6.1	6.1	
100 [37.8]	Total BTUH [kW]	28.9 [8.5]	26.9 [7.9]	26.5 [7.8]	17.0 [5.0]	15.8 [4.6]	15.6 [4.6]	22.6 [6.6]	21.0 [6.1]	20.7 [6.1]	
	Sens BTUH [kW]	-9.2 [-2.7]	-7.7 [-2.3]	-7.5 [-2.2]	-7.4 [-2.2]	-6.2 [-1.8]	-6.0 [-1.8]	-1.5 [-0.4]	-1.2 [-0.4]	-1.2 [-0.4]	
	Power	7.2	6.9	6.9	5.8	5.6	5.5	6.8	6.6	6.6	
110 [43.3]	Total BTUH [kW]	17.9 [5.2]	16.6 [4.9]	16.4 [4.8]	6.0 [1.8]	5.6 [1.6]	5.5 [1.6]	11.5 [3.4]	10.7 [3.1]	10.6 [3.1]	
	Sens BTUH [kW]	-19.5 [-5.7]	-16.3 [-4.8]	-15.8 [-4.6]	-17.7 [-5.2]	-14.8 [-4.3]	-14.3 [-4.2]	-11.7 [-3.4]	-9.8 [-2.9]	-9.5 [-2.8]	
	Power	7.9	7.7	7.6	6.5	6.3	6.3	7.6	7.4	7.3	
120 [48.9]	Total BTUH [kW]	5.3 [1.5]	4.9 [1.4]	4.9 [1.4]	-6.6 [-1.9]	-6.1 [-1.8]	-6.0 [-1.8]	-1.0 [-0.3]	-1.0 [-0.3]	-1.0 [-0.3]	
	Sens BTUH [kW]	-31.6 [-9.3]	-26.5 [-7.8]	-25.7 [-7.5]	-29.8 [-8.7]	-25.0 [-7.3]	-24.2 [-7.1]	-23.9 [-7.0]	-20.0 [-5.9]	-19.4 [-5.7]	
	Power	9.0	8.7	8.6	7.6	7.3	7.3	8.7	8.4	8.3	



## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZS120

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	46.5 [13.6]	44.4 [13.0]	43.1 [12.6]	43.1 [12.6]	41.2 [12.1]	40.0 [11.7]	40.3 [11.8]	38.6 [11.3]	37.4 [11.0]
		Sens BTUH [kW]	12.9 [3.8]	11.6 [3.4]	10.7 [3.1]	13.8 [4.0]	12.3 [3.6]	11.4 [3.3]	18.5 [5.4]	16.5 [4.8]	15.3 [4.5]
		Power	4.6	4.5	4.4	4.5	4.4	4.3	4.5	4.4	4.3
	65 [18.3]	Total BTUH [kW]	45.7 [13.4]	43.7 [12.8]	42.4 [12.4]	42.3 [12.4]	40.5 [11.9]	39.3 [11.5]	39.6 [11.6]	37.8 [11.1]	36.7 [10.8]
		Sens BTUH [kW]	10.5 [3.1]	9.4 [2.8]	8.7 [2.5]	11.4 [3.3]	10.2 [3.0]	9.4 [2.8]	16.1 [4.7]	14.4 [4.2]	13.3 [3.9]
		Power	4.6	4.5	4.5	4.6	4.5	4.4	4.5	4.4	4.4
	70 [21.1]	Total BTUH [kW]	44.7 [13.1]	42.7 [12.5]	41.4 [12.1]	41.3 [12.1]	39.5 [11.6]	38.3 [11.2]	38.5 [11.3]	36.9 [10.8]	35.7 [10.5]
Sens BTUH [kW]		8.3 [2.4]	7.4 [2.2]	6.9 [2.0]	9.2 [2.7]	8.2 [2.4]	7.6 [2.2]	13.9 [4.1]	12.4 [3.6]	11.4 [3.4]	
Power		4.7	4.6	4.6	4.7	4.6	4.5	4.6	4.5	4.5	
75 [23.9]	Total BTUH [kW]	43.4 [12.7]	41.5 [12.2]	40.2 [11.8]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]	37.2 [10.9]	35.6 [10.4]	34.5 [10.1]	
	Sens BTUH [kW]	6.3 [1.8]	5.6 [1.7]	5.2 [1.5]	7.2 [2.1]	6.4 [1.9]	5.9 [1.7]	11.9 [3.5]	10.6 [3.1]	9.8 [2.9]	
	Power	4.9	4.8	4.7	4.8	4.7	4.7	4.8	4.7	4.6	
80 [26.7]	Total BTUH [kW]	41.8 [12.2]	40.0 [11.7]	38.8 [11.4]	38.4 [11.3]	36.8 [10.8]	35.6 [10.4]	35.7 [10.5]	34.1 [10.0]	33.1 [9.7]	
	Sens BTUH [kW]	4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	5.4 [1.6]	4.8 [1.4]	4.4 [1.3]	10.1 [2.9]	9.0 [2.6]	8.3 [2.4]	
	Power	5.1	5	4.9	5	4.9	4.9	5	4.9	4.8	
85 [29.4]	Total BTUH [kW]	40.0 [11.7]	38.2 [11.2]	37.1 [10.9]	36.6 [10.7]	35.0 [10.3]	33.9 [9.9]	33.8 [9.9]	32.4 [9.5]	31.4 [9.2]	
	Sens BTUH [kW]	2.9 [0.8]	2.6 [0.8]	2.4 [0.7]	3.8 [1.1]	3.4 [1.0]	3.1 [0.9]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]	
	Power	5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	37.9 [11.1]	36.2 [10.6]	35.1 [10.3]	34.5 [10.1]	33.0 [9.7]	32.0 [9.4]	31.7 [9.3]	30.4 [8.9]	29.4 [8.6]	
	Sens BTUH [kW]	1.5 [0.4]	1.3 [0.4]	1.2 [0.4]	2.4 [0.7]	2.1 [0.6]	2.0 [0.6]	7.1 [2.1]	6.3 [1.9]	5.8 [1.7]	
	Power	5.7	5.6	5.5	5.6	5.5	5.4	5.6	5.5	5.4	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZS120

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			4800 [2265]	3800 [1793]	3200 [1510]	4800 [2265]	3800 [1793]	3200 [1510]	4800 [2265]	3800 [1793]	3200 [1510]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	58.1 [17.0]	55.4 [16.2]	53.9 [15.8]	55.5 [16.3]	53.0 [15.5]	51.4 [15.1]	53.1 [15.6]	50.7 [14.9]	49.2 [14.4]
		Sens BTUH [kW]	10.5 [3.1]	9.3 [2.7]	8.6 [2.5]	15.6 [4.6]	13.9 [4.1]	12.9 [3.8]	19.9 [5.8]	17.7 [5.2]	16.4 [4.8]
		Power	7.0	6.9	6.8	6.9	6.8	6.7	6.9	6.8	6.7
	70 [21.1]	Total BTUH [kW]	53.4 [15.7]	51.0 [14.9]	49.5 [14.5]	50.8 [14.9]	48.5 [14.2]	47.1 [13.8]	48.4 [14.2]	46.2 [13.5]	44.9 [13.2]
		Sens BTUH [kW]	8.3 [2.4]	7.4 [2.2]	6.8 [2.0]	13.4 [3.9]	12.0 [3.5]	11.1 [3.2]	17.7 [5.2]	15.8 [4.6]	14.6 [4.3]
		Power	7.1	7.0	6.9	7.0	6.9	6.8	7.0	6.9	6.8
	80 [26.7]	Total BTUH [kW]	48.4 [14.2]	46.2 [13.5]	44.9 [13.2]	45.8 [13.4]	43.7 [12.8]	42.5 [12.4]	43.4 [12.7]	41.5 [12.1]	40.3 [11.8]
Sens BTUH [kW]		4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	9.7 [2.8]	8.6 [2.5]	8.0 [2.3]	14.0 [4.1]	12.5 [3.6]	11.5 [3.4]	
Power		7.4	7.3	7.2	7.3	7.2	7.1	7.3	7.2	7.1	
90 [32.2]	Total BTUH [kW]	43.1 [12.6]	41.1 [12.0]	39.9 [11.7]	40.5 [11.9]	38.6 [11.3]	37.5 [11.0]	38.1 [11.2]	36.3 [10.6]	35.3 [10.3]	
	Sens BTUH [kW]	-0.8 [-0.2]	-0.7 [-0.2]	-0.6 [-0.2]	4.4 [1.3]	3.9 [1.1]	3.6 [1.1]	8.7 [2.5]	7.7 [2.3]	7.2 [2.1]	
	Power	7.9	7.7	7.6	7.8	7.7	7.5	7.8	7.6	7.5	
100 [37.8]	Total BTUH [kW]	37.4 [11.0]	35.7 [10.5]	34.6 [10.2]	34.8 [10.2]	33.2 [9.7]	32.2 [9.4]	32.4 [9.5]	30.9 [9.1]	30.0 [8.8]	
	Sens BTUH [kW]	-7.6 [-2.2]	-6.8 [-2.0]	-6.3 [-1.8]	-2.5 [-0.7]	-2.2 [-0.6]	-2.0 [-0.6]	1.8 [0.5]	1.6 [0.5]	1.5 [0.4]	
	Power	8.6	8.4	8.3	8.5	8.3	8.2	8.5	8.3	8.2	
110 [43.3]	Total BTUH [kW]	31.3 [9.2]	29.9 [8.8]	29.0 [8.5]	28.7 [8.4]	27.4 [8.0]	26.6 [7.8]	26.3 [7.7]	25.1 [7.4]	24.4 [7.1]	
	Sens BTUH [kW]	-16.0 [-4.7]	-14.3 [-4.2]	-13.2 [-3.9]	-10.9 [-3.2]	-9.7 [-2.8]	-9.0 [-2.6]	-6.6 [-1.9]	-5.9 [-1.7]	-5.5 [-1.6]	
	Power	9.5	9.3	9.2	9.4	9.2	9.1	9.4	9.2	9.0	
120 [48.9]	Total BTUH [kW]	24.9 [7.3]	23.8 [7.0]	23.1 [6.8]	22.3 [6.5]	21.3 [6.2]	20.7 [6.1]	19.9 [5.8]	19.0 [5.6]	18.5 [5.4]	
	Sens BTUH [kW]	-26.0 [-7.6]	-23.2 [-6.8]	-21.5 [-6.3]	-20.9 [-6.1]	-18.6 [-5.5]	-17.2 [-5.0]	-16.6 [-4.9]	-14.8 [-4.3]	-13.7 [-4.0]	
	Power	10.6	10.3	10.2	10.5	10.2	10.1	10.5	10.2	10.1	







## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZS150

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	46.5 [13.6]	44.4 [13.0]	43.1 [12.6]	43.1 [12.6]	41.2 [12.1]	40.0 [11.7]	40.3 [11.8]	38.6 [11.3]	37.4 [11.0]
		Sens BTUH [kW]	12.9 [3.8]	11.6 [3.4]	10.7 [3.1]	13.8 [4.0]	12.3 [3.6]	11.4 [3.3]	18.5 [5.4]	16.5 [4.8]	15.3 [4.5]
		Power	4.6	4.5	4.4	4.5	4.4	4.3	4.5	4.4	4.3
	65 [18.3]	Total BTUH [kW]	45.7 [13.4]	43.7 [12.8]	42.4 [12.4]	42.3 [12.4]	40.5 [11.9]	39.3 [11.5]	39.6 [11.6]	37.8 [11.1]	36.7 [10.8]
		Sens BTUH [kW]	10.5 [3.1]	9.4 [2.8]	8.7 [2.5]	11.4 [3.3]	10.2 [3.0]	9.4 [2.8]	16.1 [4.7]	14.4 [4.2]	13.3 [3.9]
		Power	4.6	4.5	4.5	4.6	4.5	4.4	4.5	4.4	4.4
	70 [21.1]	Total BTUH [kW]	44.7 [13.1]	42.7 [12.5]	41.4 [12.1]	41.3 [12.1]	39.5 [11.6]	38.3 [11.2]	38.5 [11.3]	36.9 [10.8]	35.7 [10.5]
Sens BTUH [kW]		8.3 [2.4]	7.4 [2.2]	6.9 [2.0]	9.2 [2.7]	8.2 [2.4]	7.6 [2.2]	13.9 [4.1]	12.4 [3.6]	11.4 [3.4]	
Power		4.7	4.6	4.6	4.7	4.6	4.5	4.6	4.5	4.5	
75 [23.9]	Total BTUH [kW]	43.4 [12.7]	41.5 [12.2]	40.2 [11.8]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]	37.2 [10.9]	35.6 [10.4]	34.5 [10.1]	
	Sens BTUH [kW]	6.3 [1.8]	5.6 [1.7]	5.2 [1.5]	7.2 [2.1]	6.4 [1.9]	5.9 [1.7]	11.9 [3.5]	10.6 [3.1]	9.8 [2.9]	
	Power	4.9	4.8	4.7	4.8	4.7	4.7	4.8	4.7	4.6	
80 [26.7]	Total BTUH [kW]	41.8 [12.2]	40.0 [11.7]	38.8 [11.4]	38.4 [11.3]	36.8 [10.8]	35.6 [10.4]	35.7 [10.5]	34.1 [10.0]	33.1 [9.7]	
	Sens BTUH [kW]	4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	5.4 [1.6]	4.8 [1.4]	4.4 [1.3]	10.1 [2.9]	9.0 [2.6]	8.3 [2.4]	
	Power	5.1	5	4.9	5	4.9	4.9	5	4.9	4.8	
85 [29.4]	Total BTUH [kW]	40.0 [11.7]	38.2 [11.2]	37.1 [10.9]	36.6 [10.7]	35.0 [10.3]	33.9 [9.9]	33.8 [9.9]	32.4 [9.5]	31.4 [9.2]	
	Sens BTUH [kW]	2.9 [0.8]	2.6 [0.8]	2.4 [0.7]	3.8 [1.1]	3.4 [1.0]	3.1 [0.9]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]	
	Power	5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	37.9 [11.1]	36.2 [10.6]	35.1 [10.3]	34.5 [10.1]	33.0 [9.7]	32.0 [9.4]	31.7 [9.3]	30.4 [8.9]	29.4 [8.6]	
	Sens BTUH [kW]	1.5 [0.4]	1.3 [0.4]	1.2 [0.4]	2.4 [0.7]	2.1 [0.6]	2.0 [0.6]	7.1 [2.1]	6.3 [1.9]	5.8 [1.7]	
	Power	5.7	5.6	5.5	5.6	5.5	5.4	5.6	5.5	5.4	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZS150

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		6000 [2832]	4100 [1935]	4000 [1888]	6000 [2832]	4100 [1935]	4000 [1888]	6000 [2832]	4100 [1935]	4000 [1888]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6]	Total BTUH [kW]	99.3 [29.1]	91.5 [26.8]	91.1 [26.7]	101.6 [29.8]	93.7 [27.4]	93.2 [27.3]	92.7 [27.2]	85.5 [25.1]	85.2 [25.0]
		Sens BTUH [kW]	33.3 [9.7]	27.4 [8.0]	27.0 [7.9]	40.1 [11.8]	33.0 [9.7]	32.6 [9.6]	46.4 [13.6]	38.1 [11.2]	37.7 [11.0]
		Power	9.5	9.1	9.1	9.3	8.9	8.9	9.3	8.9	8.9
	70°F [21.1]	Total BTUH [kW]	94.4 [27.7]	87.1 [25.5]	86.7 [25.4]	96.7 [28.3]	89.2 [26.1]	88.8 [26.0]	87.9 [25.8]	81.1 [23.8]	80.7 [23.7]
		Sens BTUH [kW]	27 [7.9]	22.2 [6.5]	21.9 [6.4]	33.9 [9.9]	27.9 [8.2]	27.5 [8.1]	40.1 [11.7]	33.0 [9.7]	32.6 [9.5]
		Power	9.7	9.3	9.3	9.5	9.2	9.2	9.5	9.2	9.1
	80°F [26.7]	Total BTUH [kW]	87.6 [25.7]	80.8 [23.7]	80.4 [23.6]	89.9 [26.3]	82.9 [24.3]	82.5 [24.2]	81.1 [23.8]	74.8 [21.9]	74.4 [21.8]
Sens BTUH [kW]		20.1 [5.9]	16.5 [4.8]	16.3 [4.8]	27.0 [7.9]	22.2 [6.5]	21.9 [6.4]	33.2 [9.7]	27.3 [8.0]	27.0 [7.9]	
Power		10.2	9.8	9.8	10	9.6	9.6	10	9.6	9.6	
90°F [32.2]	Total BTUH [kW]	78.7 [23.1]	72.6 [21.3]	72.3 [21.2]	81.0 [23.7]	74.7 [21.9]	74.4 [21.8]	72.2 [21.2]	66.6 [19.5]	66.3 [19.4]	
	Sens BTUH [kW]	12.5 [3.7]	10.3 [3.0]	10.2 [3.0]	19.4 [5.7]	15.9 [4.7]	15.8 [4.6]	25.6 [7.5]	21.0 [6.2]	20.8 [6.1]	
	Power	11	10.5	10.5	10.8	10.4	10.3	10.8	10.3	10.3	
100°F [37.8]	Total BTUH [kW]	67.8 [19.9]	62.5 [18.3]	62.3 [18.2]	70.1 [20.5]	64.7 [18.9]	64.4 [18.9]	61.3 [18.0]	56.5 [16.6]	56.3 [16.5]	
	Sens BTUH [kW]	4.3 [1.3]	3.5 [1.0]	3.5 [1.0]	11.2 [3.3]	9.2 [2.7]	9.1 [2.7]	17.4 [5.1]	14.3 [4.2]	14.1 [4.1]	
	Power	11.9	11.5	11.4	11.8	11.3	11.3	11.8	11.3	11.3	
110 [43.3]	Total BTUH [kW]	54.9 [16.1]	50.6 [14.8]	50.4 [14.8]	57.2 [16.8]	52.7 [15.5]	52.5 [15.4]	48.4 [14.2]	44.6 [13.1]	44.4 [13.0]	
	Sens BTUH [kW]	-4.6 [-1.3]	-3.8 [-1.1]	-3.7 [-1.1]	2.3 [0.7]	1.9 [0.5]	1.9 [0.5]	8.5 [2.5]	7.0 [2.0]	6.9 [2.0]	
	Power	13.2	12.6	12.6	13	12.5	12.4	13	12.5	12.4	
120 [48.9]	Total BTUH [kW]	40.0 [11.7]	36.8 [10.8]	36.7 [10.8]	42.3 [12.4]	39.0 [11.4]	38.8 [11.4]	33.4 [9.8]	30.8 [9.0]	30.7 [9.0]	
	Sens BTUH [kW]	-14.1 [-4.1]	-11.6 [-3.4]	-11.5 [-3.4]	-7.2 [-2.1]	-6.0 [-1.7]	-5.9 [-1.7]	-1.0 [-0.3]	-0.9 [-0.2]	-0.8 [-0.2]	
	Power	14.6	14.1	14	14.5	13.9	13.9	14.4	13.9	13.8	



## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZT090

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			1800 [850]	1700 [802]	1200 [566]	1800 [850]	1700 [802]	1200 [566]	1800 [850]	1700 [802]	1200 [566]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	29.7 [8.7]	29.4 [8.6]	27.9 [8.2]	27.0 [7.9]	26.7 [7.8]	25.3 [7.4]	26.6 [7.8]	26.4 [7.7]	24.9 [7.3]
		Sens BTUH [kW]	6.5 [1.9]	6.3 [1.8]	5.4 [1.6]	9.0 [2.6]	8.7 [2.6]	7.5 [2.2]	11.4 [3.4]	11.1 [3.3]	9.6 [2.8]
		Power	3.2	3.1	3.1	3.2	3.2	3.1	3.2	3.2	3.2
	65 [18.3]	Total BTUH [kW]	29.5 [8.6]	29.2 [8.5]	27.6 [8.1]	26.7 [7.8]	26.4 [7.7]	25.0 [7.3]	26.4 [7.7]	26.1 [7.6]	24.7 [7.2]
		Sens BTUH [kW]	5.0 [1.5]	4.9 [1.4]	4.2 [1.2]	7.6 [2.2]	7.4 [2.2]	6.3 [1.9]	10.0 [2.9]	9.7 [2.9]	8.4 [2.5]
		Power	3.2	3.2	3.1	3.3	3.2	3.2	3.2	3.2	3.2
	70 [21.1]	Total BTUH [kW]	28.8 [8.4]	28.5 [8.4]	27.0 [7.9]	26.0 [7.6]	25.8 [7.6]	24.4 [7.1]	25.7 [7.5]	25.4 [7.5]	24.1 [7.1]
Sens BTUH [kW]		3.7 [1.1]	3.6 [1.0]	3.1 [0.9]	6.2 [1.8]	6.0 [1.8]	5.2 [1.5]	8.6 [2.5]	8.4 [2.5]	7.2 [2.1]	
Power		3.2	3.2	3.1	3.3	3.3	3.2	3.3	3.3	3.2	
75 [23.9]	Total BTUH [kW]	27.8 [8.1]	27.5 [8.1]	26.0 [7.6]	25.0 [7.3]	24.7 [7.2]	23.4 [6.9]	24.7 [7.2]	24.4 [7.2]	23.1 [6.8]	
	Sens BTUH [kW]	2.3 [0.7]	2.3 [0.7]	2.0 [0.6]	4.9 [1.4]	4.7 [1.4]	4.1 [1.2]	7.3 [2.1]	7.1 [2.1]	6.1 [1.8]	
	Power	3.3	3.3	3.2	3.4	3.4	3.3	3.4	3.4	3.3	
80 [26.7]	Total BTUH [kW]	26.3 [7.7]	26.0 [7.6]	24.6 [7.2]	23.5 [6.9]	23.3 [6.8]	22.1 [6.5]	23.2 [6.8]	23.0 [6.7]	21.7 [6.4]	
	Sens BTUH [kW]	1.1 [0.3]	1.0 [0.3]	0.9 [0.3]	3.6 [1.0]	3.5 [1.0]	3.0 [0.9]	6.0 [1.8]	5.9 [1.7]	5.1 [1.5]	
	Power	3.4	3.4	3.3	3.5	3.5	3.4	3.5	3.5	3.4	
85 [29.4]	Total BTUH [kW]	24.5 [7.2]	24.2 [7.1]	22.9 [6.7]	21.7 [6.4]	21.5 [6.3]	20.3 [6.0]	21.4 [6.3]	21.1 [6.2]	20.0 [5.9]	
	Sens BTUH [kW]	-0.2 [-0.1]	-0.2 [0.0]	-0.1 [0.0]	2.4 [0.7]	2.3 [0.7]	2.0 [0.6]	4.8 [1.4]	4.7 [1.4]	4.0 [1.2]	
	Power	3.6	3.6	3.5	3.7	3.6	3.6	3.6	3.6	3.5	
90 [32.2]	Total BTUH [kW]	22.2 [6.5]	22.0 [6.4]	20.8 [6.1]	19.5 [5.7]	19.3 [5.6]	18.2 [5.3]	19.1 [5.6]	18.9 [5.5]	17.9 [5.3]	
	Sens BTUH [kW]	-1.3 [-0.4]	-1.3 [-0.4]	-1.1 [-0.3]	1.2 [0.3]	1.1 [0.3]	1.0 [0.3]	3.6 [1.1]	3.5 [1.0]	3.0 [0.9]	
	Power	3.8	3.7	3.6	3.8	3.8	3.7	3.8	3.8	3.7	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZT090

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			3600 [1699]	2900 [1369]	2400 [1133]	3600 [1699]	2900 [1369]	2400 [1133]	3600 [1699]	2900 [1369]	2400 [1133]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	41.7 [12.2]	39.9 [11.7]	38.7 [11.3]	40.1 [11.8]	38.4 [11.3]	37.2 [10.9]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]
		Sens BTUH [kW]	8.9 [2.6]	8.0 [2.4]	7.4 [2.2]	12.8 [3.7]	11.5 [3.4]	10.5 [3.1]	18.5 [5.4]	16.7 [4.9]	15.3 [4.5]
		Power	5.0	4.9	4.8	4.9	4.8	4.8	4.9	4.8	4.8
	70 [21.1]	Total BTUH [kW]	39.8 [11.7]	38.1 [11.2]	36.9 [10.8]	38.3 [11.2]	36.7 [10.7]	35.5 [10.4]	38.1 [11.2]	36.5 [10.7]	35.4 [10.4]
		Sens BTUH [kW]	5.9 [1.7]	5.3 [1.6]	4.9 [1.4]	9.8 [2.9]	8.8 [2.6]	8.1 [2.4]	15.5 [4.6]	14.0 [4.1]	12.8 [3.8]
		Power	5.1	5.0	4.9	5.1	5.0	4.9	5.0	4.9	4.9
	80 [26.7]	Total BTUH [kW]	36.7 [10.7]	35.1 [10.3]	34.0 [10.0]	35.1 [10.3]	33.7 [9.9]	32.6 [9.6]	35.0 [10.3]	33.5 [9.8]	32.5 [9.5]
Sens BTUH [kW]		2.1 [0.6]	1.9 [0.5]	1.7 [0.5]	5.9 [1.7]	5.3 [1.6]	4.9 [1.4]	11.7 [3.4]	10.5 [3.1]	9.6 [2.8]	
Power		5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	32.3 [9.5]	30.9 [9.1]	30.0 [8.8]	30.8 [9.0]	29.5 [8.6]	28.5 [8.4]	30.6 [9.0]	29.3 [8.6]	28.4 [8.3]	
	Sens BTUH [kW]	-2.7 [-0.8]	-2.4 [-0.7]	-2.2 [-0.6]	1.2 [0.3]	1.0 [0.3]	1.0 [0.3]	6.9 [2.0]	6.2 [1.8]	5.7 [1.7]	
	Power	5.8	5.6	5.6	5.7	5.6	5.5	5.7	5.6	5.5	
100 [37.8]	Total BTUH [kW]	26.7 [7.8]	25.5 [7.5]	24.7 [7.3]	25.1 [7.4]	24.1 [7.1]	23.3 [6.8]	25.0 [7.3]	23.9 [7.0]	23.2 [6.8]	
	Sens BTUH [kW]	-8.3 [-2.4]	-7.4 [-2.2]	-6.8 [-2.0]	-4.4 [-1.3]	-4.0 [-1.2]	-3.7 [-1.1]	1.3 [0.4]	1.2 [0.4]	1.1 [0.3]	
	Power	6.3	6.2	6.1	6.2	6.1	6.0	6.2	6.1	6.0	
110 [43.3]	Total BTUH [kW]	19.8 [5.8]	19.0 [5.6]	18.4 [5.4]	18.3 [5.4]	17.5 [5.1]	17.0 [5.0]	18.1 [5.3]	17.4 [5.1]	16.8 [4.9]	
	Sens BTUH [kW]	-14.7 [-4.3]	-13.2 [-3.9]	-12.2 [-3.6]	-10.9 [-3.2]	-9.8 [-2.9]	-9.0 [-2.6]	-5.1 [-1.5]	-4.6 [-1.4]	-4.2 [-1.2]	
	Power	6.9	6.8	6.7	6.9	6.7	6.6	6.9	6.7	6.6	
120 [48.9]	Total BTUH [kW]	11.7 [3.4]	11.2 [3.3]	10.8 [3.2]	10.1 [3.0]	9.7 [2.8]	9.4 [2.8]	10.0 [2.9]	9.6 [2.8]	9.3 [2.7]	
	Sens BTUH [kW]	-22.1 [-6.5]	-19.8 [-5.8]	-18.2 [-5.3]	-18.2 [-5.3]	-16.4 [-4.8]	-15.1 [-4.4]	-12.5 [-3.7]	-11.2 [-3.3]	-10.3 [-3.0]	
	Power	7.8	7.6	7.5	7.7	7.5	7.4	7.7	7.5	7.4	





## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE)–RACDZT102

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			2100 [991]	1700 [802]	1400 [661]	2100 [991]	1700 [802]	1400 [661]	2100 [991]	1700 [802]	1400 [661]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	36.6 [10.7]	35.1 [10.3]	33.9 [9.9]	34.5 [10.1]	33.1 [9.7]	32.1 [9.4]	31.9 [9.3]	30.6 [9.0]	29.6 [8.7]
		Sens BTUH [kW]	7.1 [2.1]	6.4 [1.9]	5.9 [1.7]	9.0 [2.6]	8.1 [2.4]	7.4 [2.2]	10.7 [3.1]	9.7 [2.8]	8.9 [2.6]
		Power	3.9	3.8	3.7	3.8	3.8	3.7	3.8	3.8	3.7
	65 [18.3]	Total BTUH [kW]	35.5 [10.4]	34.0 [10.0]	32.9 [9.6]	33.4 [9.8]	32.1 [9.4]	31.0 [9.1]	30.8 [9.0]	29.5 [8.6]	28.6 [8.4]
		Sens BTUH [kW]	6.1 [1.8]	5.5 [1.6]	5.0 [1.5]	8.0 [2.3]	7.2 [2.1]	6.6 [1.9]	9.7 [2.8]	8.7 [2.6]	8.0 [2.4]
		Power	3.9	3.8	3.8	3.9	3.8	3.8	3.9	3.8	3.8
	70 [21.1]	Total BTUH [kW]	34.1 [10.0]	32.7 [9.6]	31.7 [9.3]	32.1 [9.4]	30.8 [9.0]	29.8 [8.7]	29.5 [8.6]	28.3 [8.3]	27.4 [8.0]
Sens BTUH [kW]		4.8 [1.4]	4.3 [1.3]	4.0 [1.2]	6.7 [2.0]	6.0 [1.8]	5.5 [1.6]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]	
Power		4.0	3.9	3.9	4.0	3.9	3.9	4.0	3.9	3.9	
75 [23.9]	Total BTUH [kW]	32.7 [9.6]	31.3 [9.2]	30.3 [8.9]	30.6 [9.0]	29.4 [8.6]	28.4 [8.3]	28.0 [8.2]	26.8 [7.9]	26.0 [7.6]	
	Sens BTUH [kW]	3.3 [1.0]	3.0 [0.9]	2.8 [0.8]	5.2 [1.5]	4.7 [1.4]	4.3 [1.3]	7.0 [2.0]	6.3 [1.8]	5.8 [1.7]	
	Power	4.1	4.0	4.0	4.1	4.0	4.0	4.1	4.0	4.0	
80 [26.7]	Total BTUH [kW]	31.0 [9.1]	29.7 [8.7]	28.8 [8.4]	29.0 [8.5]	27.8 [8.1]	26.9 [7.9]	26.3 [7.7]	25.2 [7.4]	24.4 [7.2]	
	Sens BTUH [kW]	1.7 [0.5]	1.5 [0.4]	1.4 [0.4]	3.6 [1.0]	3.2 [0.9]	2.9 [0.9]	5.3 [1.6]	4.8 [1.4]	4.4 [1.3]	
	Power	4.3	4.2	4.1	4.3	4.2	4.1	4.3	4.2	4.1	
85 [29.4]	Total BTUH [kW]	29.1 [8.5]	27.9 [8.2]	27.0 [7.9]	27.1 [7.9]	26.0 [7.6]	25.1 [7.4]	24.4 [7.2]	23.4 [6.9]	22.7 [6.6]	
	Sens BTUH [kW]	-0.2 [-0.1]	-0.2 [-0.1]	-0.2 [-0.1]	1.7 [0.5]	1.5 [0.4]	1.4 [0.4]	3.4 [1.0]	3.1 [0.9]	2.8 [0.8]	
	Power	4.4	4.3	4.3	4.4	4.3	4.3	4.4	4.3	4.3	
90 [32.2]	Total BTUH [kW]	27.1 [7.9]	26.0 [7.6]	25.1 [7.4]	25.0 [7.3]	24.0 [7.0]	23.2 [6.8]	22.4 [6.6]	21.5 [6.3]	20.8 [6.1]	
	Sens BTUH [kW]	-2.3 [-0.7]	-2.1 [-0.6]	-1.9 [-0.6]	-0.4 [-0.1]	-0.4 [-0.1]	-0.4 [-0.1]	1.3 [0.4]	1.2 [0.3]	1.1 [0.3]	
	Power	4.6	4.5	4.4	4.6	4.5	4.4	4.6	4.5	4.4	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE)–RACDZT102

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			4100 [1935]	2900 [1369]	2700 [1274]	4100 [1935]	2900 [1369]	2700 [1274]	4100 [1935]	2900 [1369]	2700 [1274]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	57.6 [16.9]	53.6 [15.7]	52.9 [15.5]	45.7 [13.4]	42.5 [12.5]	42.0 [12.3]	51.3 [15.0]	47.7 [14.0]	47.1 [13.8]
		Sens BTUH [kW]	12.7 [3.7]	10.7 [3.1]	10.3 [3.0]	14.6 [4.3]	12.2 [3.6]	11.8 [3.5]	20.5 [6.0]	17.2 [5.0]	16.6 [4.9]
		Power	6.6	6.4	6.3	5.2	5.0	5.0	6.3	6.1	6.0
	70 [21.1]	Total BTUH [kW]	52.7 [15.5]	49.1 [14.4]	48.4 [14.2]	40.9 [12.0]	38.0 [11.1]	37.5 [11.0]	46.4 [13.6]	43.2 [12.7]	42.6 [12.5]
		Sens BTUH [kW]	10.1 [3.0]	8.5 [2.5]	8.2 [2.4]	11.9 [3.5]	10.0 [2.9]	9.7 [2.8]	17.9 [5.2]	15.0 [4.4]	14.5 [4.2]
		Power	6.4	6.1	6.1	5.0	4.8	4.8	6.0	5.8	5.8
	80 [26.7]	Total BTUH [kW]	46.3 [13.6]	43.1 [12.6]	42.6 [12.5]	34.5 [10.1]	32.1 [9.4]	31.6 [9.3]	40.0 [11.7]	37.2 [10.9]	36.7 [10.8]
Sens BTUH [kW]		5.6 [1.6]	4.7 [1.4]	4.5 [1.3]	7.4 [2.2]	6.2 [1.8]	6.0 [1.8]	13.3 [3.9]	11.2 [3.3]	10.8 [3.2]	
Power		6.4	6.1	6.1	5.0	4.8	4.8	6.1	5.8	5.8	
90 [32.2]	Total BTUH [kW]	38.4 [11.2]	35.7 [10.5]	35.2 [10.3]	26.5 [7.8]	24.7 [7.2]	24.3 [7.1]	32.1 [9.4]	29.8 [8.7]	29.4 [8.6]	
	Sens BTUH [kW]	-0.9 [-0.3]	-0.7 [-0.2]	-0.7 [-0.2]	0.9 [0.3]	0.8 [0.2]	0.8 [0.2]	6.9 [2.0]	5.8 [1.7]	5.6 [1.6]	
	Power	6.6	6.4	6.4	5.2	5.1	5.0	6.3	6.1	6.1	
100 [37.8]	Total BTUH [kW]	28.9 [8.5]	26.9 [7.9]	26.5 [7.8]	17.0 [5.0]	15.8 [4.6]	15.6 [4.6]	22.6 [6.6]	21.0 [6.1]	20.7 [6.1]	
	Sens BTUH [kW]	-9.2 [-2.7]	-7.7 [-2.3]	-7.5 [-2.2]	-7.4 [-2.2]	-6.2 [-1.8]	-6.0 [-1.8]	-1.5 [-0.4]	-1.2 [-0.4]	-1.2 [-0.4]	
	Power	7.2	6.9	6.9	5.8	5.6	5.5	6.8	6.6	6.6	
110 [43.3]	Total BTUH [kW]	17.9 [5.2]	16.6 [4.9]	16.4 [4.8]	6.0 [1.8]	5.6 [1.6]	5.5 [1.6]	11.5 [3.4]	10.7 [3.1]	10.6 [3.1]	
	Sens BTUH [kW]	-19.5 [-5.7]	-16.3 [-4.8]	-15.8 [-4.6]	-17.7 [-5.2]	-14.8 [-4.3]	-14.3 [-4.2]	-11.7 [-3.4]	-9.8 [-2.9]	-9.5 [-2.8]	
	Power	7.9	7.7	7.6	6.5	6.3	6.3	7.6	7.4	7.3	
120 [48.9]	Total BTUH [kW]	5.3 [1.5]	4.9 [1.4]	4.9 [1.4]	-6.6 [-1.9]	-6.1 [-1.8]	-6.0 [-1.8]	-1.0 [-0.3]	-1.0 [-0.3]	-1.0 [-0.3]	
	Sens BTUH [kW]	-31.6 [-9.3]	-26.5 [-7.8]	-25.7 [-7.5]	-29.8 [-8.7]	-25.0 [-7.3]	-24.2 [-7.1]	-23.9 [-7.0]	-20.0 [-5.9]	-19.4 [-5.7]	
	Power	9.0	8.7	8.6	7.6	7.3	7.3	8.7	8.4	8.3	



## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZT120

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	46.5 [13.6]	44.4 [13.0]	43.1 [12.6]	43.1 [12.6]	41.2 [12.1]	40.0 [11.7]	40.3 [11.8]	38.6 [11.3]	37.4 [11.0]
		Sens BTUH [kW]	12.9 [3.8]	11.6 [3.4]	10.7 [3.1]	13.8 [4.0]	12.3 [3.6]	11.4 [3.3]	18.5 [5.4]	16.5 [4.8]	15.3 [4.5]
		Power	4.6	4.5	4.4	4.5	4.4	4.3	4.5	4.4	4.3
	65 [18.3]	Total BTUH [kW]	45.7 [13.4]	43.7 [12.8]	42.4 [12.4]	42.3 [12.4]	40.5 [11.9]	39.3 [11.5]	39.6 [11.6]	37.8 [11.1]	36.7 [10.8]
		Sens BTUH [kW]	10.5 [3.1]	9.4 [2.8]	8.7 [2.5]	11.4 [3.3]	10.2 [3.0]	9.4 [2.8]	16.1 [4.7]	14.4 [4.2]	13.3 [3.9]
		Power	4.6	4.5	4.5	4.6	4.5	4.4	4.5	4.4	4.4
	70 [21.1]	Total BTUH [kW]	44.7 [13.1]	42.7 [12.5]	41.4 [12.1]	41.3 [12.1]	39.5 [11.6]	38.3 [11.2]	38.5 [11.3]	36.9 [10.8]	35.7 [10.5]
Sens BTUH [kW]		8.3 [2.4]	7.4 [2.2]	6.9 [2.0]	9.2 [2.7]	8.2 [2.4]	7.6 [2.2]	13.9 [4.1]	12.4 [3.6]	11.4 [3.4]	
Power		4.7	4.6	4.6	4.7	4.6	4.5	4.6	4.5	4.5	
75 [23.9]	Total BTUH [kW]	43.4 [12.7]	41.5 [12.2]	40.2 [11.8]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]	37.2 [10.9]	35.6 [10.4]	34.5 [10.1]	
	Sens BTUH [kW]	6.3 [1.8]	5.6 [1.7]	5.2 [1.5]	7.2 [2.1]	6.4 [1.9]	5.9 [1.7]	11.9 [3.5]	10.6 [3.1]	9.8 [2.9]	
	Power	4.9	4.8	4.7	4.8	4.7	4.7	4.8	4.7	4.6	
80 [26.7]	Total BTUH [kW]	41.8 [12.2]	40.0 [11.7]	38.8 [11.4]	38.4 [11.3]	36.8 [10.8]	35.6 [10.4]	35.7 [10.5]	34.1 [10.0]	33.1 [9.7]	
	Sens BTUH [kW]	4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	5.4 [1.6]	4.8 [1.4]	4.4 [1.3]	10.1 [2.9]	9.0 [2.6]	8.3 [2.4]	
	Power	5.1	5	4.9	5	4.9	4.9	5	4.9	4.8	
85 [29.4]	Total BTUH [kW]	40.0 [11.7]	38.2 [11.2]	37.1 [10.9]	36.6 [10.7]	35.0 [10.3]	33.9 [9.9]	33.8 [9.9]	32.4 [9.5]	31.4 [9.2]	
	Sens BTUH [kW]	2.9 [0.8]	2.6 [0.8]	2.4 [0.7]	3.8 [1.1]	3.4 [1.0]	3.1 [0.9]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]	
	Power	5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	37.9 [11.1]	36.2 [10.6]	35.1 [10.3]	34.5 [10.1]	33.0 [9.7]	32.0 [9.4]	31.7 [9.3]	30.4 [8.9]	29.4 [8.6]	
	Sens BTUH [kW]	1.5 [0.4]	1.3 [0.4]	1.2 [0.4]	2.4 [0.7]	2.1 [0.6]	2.0 [0.6]	7.1 [2.1]	6.3 [1.9]	5.8 [1.7]	
	Power	5.7	5.6	5.5	5.6	5.5	5.4	5.6	5.5	5.4	

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZT120

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			4800 [2265]	3800 [1793]	3200 [1510]	4800 [2265]	3800 [1793]	3200 [1510]	4800 [2265]	3800 [1793]	3200 [1510]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	58.1 [17.0]	55.4 [16.2]	53.9 [15.8]	55.5 [16.3]	53.0 [15.5]	51.4 [15.1]	53.1 [15.6]	50.7 [14.9]	49.2 [14.4]
		Sens BTUH [kW]	10.5 [3.1]	9.3 [2.7]	8.6 [2.5]	15.6 [4.6]	13.9 [4.1]	12.9 [3.8]	19.9 [5.8]	17.7 [5.2]	16.4 [4.8]
		Power	7.0	6.9	6.8	6.9	6.8	6.7	6.9	6.8	6.7
	70 [21.1]	Total BTUH [kW]	53.4 [15.7]	51.0 [14.9]	49.5 [14.5]	50.8 [14.9]	48.5 [14.2]	47.1 [13.8]	48.4 [14.2]	46.2 [13.5]	44.9 [13.2]
		Sens BTUH [kW]	8.3 [2.4]	7.4 [2.2]	6.8 [2.0]	13.4 [3.9]	12.0 [3.5]	11.1 [3.2]	17.7 [5.2]	15.8 [4.6]	14.6 [4.3]
		Power	7.1	7.0	6.9	7.0	6.9	6.8	7.0	6.9	6.8
	80 [26.7]	Total BTUH [kW]	48.4 [14.2]	46.2 [13.5]	44.9 [13.2]	45.8 [13.4]	43.7 [12.8]	42.5 [12.4]	43.4 [12.7]	41.5 [12.1]	40.3 [11.8]
Sens BTUH [kW]		4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	9.7 [2.8]	8.6 [2.5]	8.0 [2.3]	14.0 [4.1]	12.5 [3.6]	11.5 [3.4]	
Power		7.4	7.3	7.2	7.3	7.2	7.1	7.3	7.2	7.1	
90 [32.2]	Total BTUH [kW]	43.1 [12.6]	41.1 [12.0]	39.9 [11.7]	40.5 [11.9]	38.6 [11.3]	37.5 [11.0]	38.1 [11.2]	36.3 [10.6]	35.3 [10.3]	
	Sens BTUH [kW]	-0.8 [-0.2]	-0.7 [-0.2]	-0.6 [-0.2]	4.4 [1.3]	3.9 [1.1]	3.6 [1.1]	8.7 [2.5]	7.7 [2.3]	7.2 [2.1]	
	Power	7.9	7.7	7.6	7.8	7.7	7.5	7.8	7.6	7.5	
100 [37.8]	Total BTUH [kW]	37.4 [11.0]	35.7 [10.5]	34.6 [10.2]	34.8 [10.2]	33.2 [9.7]	32.2 [9.4]	32.4 [9.5]	30.9 [9.1]	30.0 [8.8]	
	Sens BTUH [kW]	-7.6 [-2.2]	-6.8 [-2.0]	-6.3 [-1.8]	-2.5 [-0.7]	-2.2 [-0.6]	-2.0 [-0.6]	1.8 [0.5]	1.6 [0.5]	1.5 [0.4]	
	Power	8.6	8.4	8.3	8.5	8.3	8.2	8.5	8.3	8.2	
110 [43.3]	Total BTUH [kW]	31.3 [9.2]	29.9 [8.8]	29.0 [8.5]	28.7 [8.4]	27.4 [8.0]	26.6 [7.8]	26.3 [7.7]	25.1 [7.4]	24.4 [7.1]	
	Sens BTUH [kW]	-16.0 [-4.7]	-14.3 [-4.2]	-13.2 [-3.9]	-10.9 [-3.2]	-9.7 [-2.8]	-9.0 [-2.6]	-6.6 [-1.9]	-5.9 [-1.7]	-5.5 [-1.6]	
	Power	9.5	9.3	9.2	9.4	9.2	9.1	9.4	9.2	9.0	
120 [48.9]	Total BTUH [kW]	24.9 [7.3]	23.8 [7.0]	23.1 [6.8]	22.3 [6.5]	21.3 [6.2]	20.7 [6.1]	19.9 [5.8]	19.0 [5.6]	18.5 [5.4]	
	Sens BTUH [kW]	-26.0 [-7.6]	-23.2 [-6.8]	-21.5 [-6.3]	-20.9 [-6.1]	-18.6 [-5.5]	-17.2 [-5.0]	-16.6 [-4.9]	-14.8 [-4.3]	-13.7 [-4.0]	
	Power	10.6	10.3	10.2	10.5	10.2	10.1	10.5	10.2	10.1	





## GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE) – RACDZT150

		ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①									
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW] Sens BTUH [kW] Power	46.5 [13.6] 12.9 [3.8] 4.6	44.4 [13.0] 11.6 [3.4] 4.5	43.1 [12.6] 10.7 [3.1] 4.4	43.1 [12.6] 13.8 [4.0] 4.5	41.2 [12.1] 12.3 [3.6] 4.4	40.0 [11.7] 11.4 [3.3] 4.3	40.3 [11.8] 18.5 [5.4] 4.5	38.6 [11.3] 16.5 [4.8] 4.4	37.4 [11.0] 15.3 [4.5] 4.3
	65 [18.3]	Total BTUH [kW] Sens BTUH [kW] Power	45.7 [13.4] 10.5 [3.1] 4.6	43.7 [12.8] 9.4 [2.8] 4.5	42.4 [12.4] 8.7 [2.5] 4.5	42.3 [12.4] 11.4 [3.3] 4.6	40.5 [11.9] 10.2 [3.0] 4.5	39.3 [11.5] 9.4 [2.8] 4.4	39.6 [11.6] 16.1 [4.7] 4.5	37.8 [11.1] 14.4 [4.2] 4.4	36.7 [10.8] 13.3 [3.9] 4.4
	70 [21.1]	Total BTUH [kW] Sens BTUH [kW] Power	44.7 [13.1] 8.3 [2.4] 4.7	42.7 [12.5] 7.4 [2.2] 4.6	41.4 [12.1] 6.9 [2.0] 4.6	41.3 [12.1] 9.2 [2.7] 4.7	39.5 [11.6] 8.2 [2.4] 4.6	38.3 [11.2] 7.6 [2.2] 4.5	38.5 [11.3] 13.9 [4.1] 4.6	36.9 [10.8] 12.4 [3.6] 4.5	35.7 [10.5] 11.4 [3.4] 4.5
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	43.4 [12.7] 6.3 [1.8] 4.9	41.5 [12.2] 5.6 [1.7] 4.8	40.2 [11.8] 5.2 [1.5] 4.7	40.0 [11.7] 7.2 [2.1] 4.8	38.3 [11.2] 6.4 [1.9] 4.7	37.1 [10.9] 5.9 [1.7] 4.7	37.2 [10.9] 11.9 [3.5] 4.8	35.6 [10.4] 10.6 [3.1] 4.7	34.5 [10.1] 9.8 [2.9] 4.6
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	41.8 [12.2] 4.5 [1.3] 5.1	40.0 [11.7] 4.0 [1.2] 5	38.8 [11.4] 3.7 [1.1] 4.9	38.4 [11.3] 5.4 [1.6] 5	36.8 [10.8] 4.8 [1.4] 4.9	35.6 [10.4] 4.4 [1.3] 4.9	35.7 [10.5] 10.1 [2.9] 5	34.1 [10.0] 9.0 [2.6] 4.9	33.1 [9.7] 8.3 [2.4] 4.8
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	40.0 [11.7] 2.9 [0.8] 5.4	38.2 [11.2] 2.6 [0.8] 5.3	37.1 [10.9] 2.4 [0.7] 5.2	36.6 [10.7] 3.8 [1.1] 5.3	35.0 [10.3] 3.4 [1.0] 5.2	33.9 [9.9] 3.1 [0.9] 5.1	33.8 [9.9] 8.5 [2.5] 5.3	32.4 [9.5] 7.6 [2.2] 5.2	31.4 [9.2] 7.0 [2.0] 5.1
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	37.9 [11.1] 1.5 [0.4] 5.7	36.2 [10.6] 1.3 [0.4] 5.6	35.1 [10.3] 1.2 [0.4] 5.5	34.5 [10.1] 2.4 [0.7] 5.6	33.0 [9.7] 2.1 [0.6] 5.5	32.0 [9.4] 2.0 [0.6] 5.4	31.7 [9.3] 7.1 [2.1] 5.6	30.4 [8.9] 6.3 [1.9] 5.5	29.4 [8.6] 5.8 [1.7] 5.4

## GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE) – RACDZT150

		ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①									
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		6000 [2832]	4100 [1935]	4000 [1888]	6000 [2832]	4100 [1935]	4000 [1888]	6000 [2832]	4100 [1935]	4000 [1888]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6]	Total BTUH [kW] Sens BTUH [kW] Power	99.3 [29.1] 33.3 [9.7] 9.5	91.5 [26.8] 27.4 [8.0] 9.1	91.1 [26.7] 27.0 [7.9] 9.1	101.6 [29.8] 40.1 [11.8] 9.3	93.7 [27.4] 33.0 [9.7] 8.9	93.2 [27.3] 32.6 [9.6] 8.9	92.7 [27.2] 46.4 [13.6] 9.3	85.5 [25.1] 38.1 [11.2] 8.9	85.2 [25.0] 37.7 [11.0] 8.9
	70°F [21.1]	Total BTUH [kW] Sens BTUH [kW] Power	94.4 [27.7] 27 [7.9] 9.7	87.1 [25.5] 22.2 [6.5] 9.3	86.7 [25.4] 21.9 [6.4] 9.3	96.7 [28.3] 33.9 [9.9] 9.5	89.2 [26.1] 27.9 [8.2] 9.2	88.8 [26.0] 27.5 [8.1] 9.2	87.9 [25.8] 40.1 [11.7] 9.5	81.1 [23.8] 33.0 [9.7] 9.2	80.7 [23.7] 32.6 [9.5] 9.1
	80°F [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	87.6 [25.7] 20.1 [5.9] 10.2	80.8 [23.7] 16.5 [4.8] 9.8	80.4 [23.6] 16.3 [4.8] 9.8	89.9 [26.3] 27.0 [7.9] 10	82.9 [24.3] 22.2 [6.5] 9.6	82.5 [24.2] 21.9 [6.4] 9.6	81.1 [23.8] 33.2 [9.7] 10	74.8 [21.9] 27.3 [8.0] 9.6	74.4 [21.8] 27.0 [7.9] 9.6
	90°F [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	78.7 [23.1] 12.5 [3.7] 11	72.6 [21.3] 10.3 [3.0] 10.5	72.3 [21.2] 10.2 [3.0] 10.5	81.0 [23.7] 19.4 [5.7] 10.8	74.7 [21.9] 15.9 [4.7] 10.4	74.4 [21.8] 15.8 [4.6] 10.3	72.2 [21.2] 25.6 [7.5] 10.8	66.6 [19.5] 21.0 [6.2] 10.3	66.3 [19.4] 20.8 [6.1] 10.3
	100°F [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	67.8 [19.9] 4.3 [1.3] 11.9	62.5 [18.3] 3.5 [1.0] 11.5	62.3 [18.2] 3.5 [1.0] 11.4	70.1 [20.5] 11.2 [3.3] 11.8	64.7 [18.9] 9.2 [2.7] 11.3	64.4 [18.9] 9.1 [2.7] 11.3	61.3 [18.0] 17.4 [5.1] 11.8	56.5 [16.6] 14.3 [4.2] 11.3	56.3 [16.5] 14.1 [4.1] 11.3
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	54.9 [16.1] -4.6 [-1.3] 13.2	50.6 [14.8] -3.8 [-1.1] 12.6	50.4 [14.8] -3.7 [-1.1] 12.6	57.2 [16.8] 2.3 [0.7] 13	52.7 [15.5] 1.9 [0.5] 12.5	52.5 [15.4] 1.9 [0.5] 12.4	48.4 [14.2] 8.5 [2.5] 13	44.6 [13.1] 7.0 [2.0] 12.5	44.4 [13.0] 6.9 [2.0] 12.4
	120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	40.0 [11.7] -14.1 [-4.1] 14.6	36.8 [10.8] -11.6 [-3.4] 14.1	36.7 [10.8] -11.5 [-3.4] 14	42.3 [12.4] -7.2 [-2.1] 14.5	39.0 [11.4] -6.0 [-1.7] 13.9	38.8 [11.4] -5.9 [-1.7] 13.9	33.4 [9.8] -1.0 [-0.3] 14.4	30.8 [9.0] -0.9 [-0.2] 13.9	30.7 [9.0] -0.8 [-0.2] 13.8

# AIRFLOW PERFORMANCE— 7.5 TON [26.4 kW] — 60 HZ — DOWNFLOW

Air Flow CFM [L/s]	Model RACDZ*090* 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]				
2400 [1133]	551	582	616	649	684	717	748	780	810	841	870	900	929	957	985	1012	1039	1065	1091	1118				
2500 [1180]	562	593	627	661	693	725	756	787	818	849	879	909	938	966	994	1021	1048	1074	1100	1127				
2600 [1227]	574	605	639	672	704	735	766	797	828	859	889	919	948	976	1004	1031	1057	1083	1109	1136				
2700 [1274]	585	616	650	683	715	746	777	808	839	870	900	930	959	987	1015	1042	1068	1094	1120	1147				
2800 [1321]	596	627	661	694	726	757	788	819	850	881	911	941	970	998	1026	1053	1079	1105	1131	1158				
2900 [1368]	607	638	672	705	737	768	799	830	861	892	922	952	981	1009	1037	1064	1090	1116	1142	1169				
3000 [1416]	618	649	683	716	748	779	810	841	872	903	933	963	992	1020	1048	1075	1101	1127	1153	1180				
3100 [1463]	629	660	694	727	759	790	821	852	883	914	944	974	1003	1031	1059	1086	1112	1138	1164	1191				
3200 [1510]	640	671	705	738	770	801	832	863	894	925	955	985	1014	1042	1070	1097	1123	1149	1175	1202				
3300 [1557]	651	682	716	749	781	812	843	874	905	936	966	995	1024	1052	1080	1107	1133	1159	1185	1212				
3400 [1604]	662	693	727	760	792	823	854	885	916	947	977	1006	1035	1063	1091	1118	1144	1170	1196	1223				
3500 [1652]	673	704	738	771	803	834	865	896	927	958	988	1017	1046	1074	1102	1129	1155	1181	1207	1234				
3600 [1699]	684	715	749	782	814	845	876	907	938	969	999	1028	1057	1085	1113	1140	1166	1192	1218	1245				

NOTE: AF-Drive left of the bold line, B/G-Drive right of bold lines, C/H-Drive right of double line.

Drive Package	A/F	B/G	C/H
Motor H.P. [W]	2 [1491.4]	3 [2237.1]	3 [2237.1]
Blower Sheave	AK84H	AK84H	AK84H
Motor Sheave	1VL40*7/8	1VP50*7/8	1VP56*7/8
Belt	A49	A50	A51
Turns Open	0 1 2 3 4 5	0 1 2 3 4 5	0 1 2 3 4 5
RPM	767 721 678 635 590 548	992 949 908 866 823 782	1029 987 946 905 864 823 782 741 700 659 618 577 536 495 454 413 372 331 290 249 208 167 126 85 44 3 1 0

- 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— 7.5 TON [26.4 kW] — 60 Hz — DOWNFLOW (con't.)**

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				
	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	
CFM [L/s]	Resistance — Inches of Water [kPa]							
2400 [1133]	0.96	0.89	0.98	0.04 [.01]	0.01 [.00]	0.66 [.16]	0.53 [.13]	
2500 [1180]	0.96	0.90	0.99	0.05 [.01]	0.02 [.00]	0.71 [.18]	0.57 [.14]	
2600 [1227]	0.97	0.92	0.99	0.05 [.01]	0.02 [.01]	0.75 [.19]	0.60 [.15]	
2700 [1274]	0.97	0.93	0.99	0.05 [.01]	0.03 [.01]	0.80 [.20]	0.65 [.16]	
2800 [1321]	0.98	0.95	0.99	0.06 [.01]	0.04 [.01]	0.85 [.21]	0.69 [.17]	
2900 [1368]	0.98	0.96	1.00	0.06 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]	
3000 [1416]	0.99	0.97	1.00	0.07 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]	
3100 [1463]	1.00	0.99	1.00	0.07 [.02]	0.06 [.02]	1.02 [.25]	0.86 [.21]	
3200 [1510]	1.00	1.00	1.01	0.07 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]	
3300 [1557]	1.01	1.02	1.01	0.08 [.02]	0.08 [.02]	1.15 [.29]	0.99 [.25]	
3400 [1604]	1.01	1.03	1.01	0.08 [.02]	0.09 [.02]	1.21 [.30]	1.05 [.26]	
3500 [1652]	1.02	1.05	1.01	0.09 [.02]	0.10 [.02]	1.29 [.32]	1.09 [.27]	
3600 [1699]	1.02	1.06	1.02	0.09 [.02]	0.11 [.03]	1.36 [.34]	1.13 [.28]	

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE— 7.5 TON [26.4 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RACDZ*090* 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]																				
2400 [1133]	—	—	558	822	594	853	629	887	663	925	697	965	730	1009	763	1056	794	1106	826	1159	856	1216	886	1275	915	1338	943	1404	971	1474	998	1546	1025	1622	1051	1700	1076	1782		
2500 [1180]	—	—	568	848	604	881	638	917	672	956	705	988	738	1044	769	1092	801	1144	831	1199	861	1258	890	1319	919	1384	947	1452	974	1523	1001	1597	1027	1674	1052	1755	1077	1838		
2600 [1227]	—	543	846	579	877	613	912	647	950	681	991	713	1035	745	1082	777	1132	807	1186	837	1243	867	1303	895	1366	923	1433	951	1502	978	1575	1004	1651	1029	1730	1054	1812	1078	1898	
2700 [1274]	—	554	877	589	910	623	946	657	986	689	1029	722	1074	753	1124	784	1176	814	1231	844	1290	872	1352	901	1417	928	1485	955	1556	981	1631	1007	1708	1032	1789	1056	1873	1079	1961	
2800 [1321]	—	566	911	600	946	634	984	666	1026	699	1070	730	1118	761	1169	792	1223	821	1280	850	1340	878	1404	906	1470	933	1540	959	1613	985	1690	1010	1769	1034	1852	1058	1938	1081	2027	
2900 [1368]	543	577	949	611	986	644	1026	676	1069	708	1115	739	1164	770	1217	799	1273	828	1332	857	1394	885	1459	912	1528	938	1599	964	1674	989	1752	1014	1833	1037	1918	1061	2005	1083	2096	
3000 [1416]	555	589	990	622	1029	655	1070	687	1115	718	1163	748	1214	778	1269	807	1326	836	1387	864	1451	891	1518	918	1588	944	1662	969	1738	994	1818	1017	1901	1041	1987	1063	2077	1085	2169	
3100 [1463]	568	601	1035	634	1075	666	1118	697	1165	728	1215	758	1268	787	1324	816	1383	844	1445	871	1511	898	1580	924	1652	949	1727	974	1806	998	1887	1022	1972	1044	2060	1066	2151	1088	2245	
3200 [1510]	581	1044	614	1083	646	1125	677	1170	708	1218	738	1270	768	1324	796	1382	824	1443	852	1507	879	1575	905	1646	931	1719	955	1796	980	1876	1003	1960	1026	2046	1048	2136	1070	2229	1091	2325
3300 [1557]	594	1093	626	1134	658	1178	689	1225	719	1275	749	1328	778	1384	806	1444	833	1507	860	1573	887	1642	912	1714	937	1790	962	1869	985	1951	1008	2036	1031	2124	1052	2216	1073	2310	1094	2408
3400 [1604]	607	1146	639	1189	670	1234	701	1283	730	1335	759	1390	788	1448	815	1509	843	1574	869	1642	895	1713	920	1787	944	1864	968	1945	991	2028	1014	2115	1036	2205	1057	2298	1077	2395	1097	2494
3500 [1652]	621	1203	652	1247	683	1294	713	1344	742	1398	770	1455	798	1515	825	1578	852	1644	878	1714	903	1786	928	1862	952	1941	975	2024	997	2109	1019	2198	1041	2290	1061	2385	1081	2483	1101	2584
3600 [1699]	635	1262	666	1308	696	1357	725	1409	754	1465	782	1523	809	1585	836	1650	862	1718	887	1789	912	1864	936	1941	959	2022	982	2106	1004	2194	1025	2284	1046	2378	1066	2474	1086	2574	1104	2677

NOTE: A/F—Drive left of the bold line, B/G—Drive right of bold lines, C/H—Drive right of double line.

Drive Package	A/F	B/G	C/H
Motor H.P. [W]	2 [1491.4]	3 [2237.1]	3 [2237.1]
Blower Sheave	AK84H	AK84H	AK84H
Motor Sheave	1VL40*7/8	1VP50*7/8	1VP56*7/8
Belt	A49	A50	A51
Turns Open	0	1	2
RPM	765	720	676
	1	2	3
	3	4	5
	4	5	6
	5	6	7
	6	7	8
	7	8	9
	8	9	10
	9	10	11
	10	11	12
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	166	167	168
	167	168	169
	168	169	170
	169	170	



## AIRFLOW PERFORMANCE— 7.5 TON [26.4 kW] — 60 Hz — SIDEFLOW (con't.)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)
2400 [1133]	0.96	0.89	0.98	0.04 [.01]	0.01 [.00]	0.66 [.16]	0.53 [.13]
2500 [1180]	0.96	0.90	0.99	0.05 [.01]	0.02 [.00]	0.71 [.18]	0.57 [.14]
2600 [1227]	0.97	0.92	0.99	0.05 [.01]	0.02 [.00]	0.75 [.19]	0.60 [.15]
2700 [1274]	0.97	0.93	0.99	0.05 [.01]	0.03 [.01]	0.80 [.20]	0.65 [.16]
2800 [1321]	0.98	0.95	0.99	0.06 [.01]	0.04 [.01]	0.85 [.21]	0.69 [.17]
2900 [1368]	0.98	0.96	1.00	0.06 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]
3000 [1416]	0.99	0.97	1.00	0.07 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]
3100 [1463]	1.00	0.99	1.00	0.07 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]
3200 [1510]	1.00	1.00	1.01	0.07 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]
3300 [1557]	1.01	1.02	1.01	0.08 [.02]	0.08 [.02]	1.15 [.29]	0.99 [.25]
3400 [1604]	1.01	1.03	1.01	0.08 [.02]	0.09 [.02]	1.21 [.30]	1.05 [.26]
3500 [1652]	1.02	1.05	1.01	0.09 [.02]	0.10 [.02]	1.29 [.32]	1.09 [.27]
3600 [1699]	1.02	1.06	1.02	0.09 [.02]	0.11 [.03]	1.36 [.34]	1.13 [.28]

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE—8.5 TON [29.9 kW] — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RACDZ*102* 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]																				
2700 [1274]	—	561	894	596	934	631	975	665	1018	698	1062	730	1108	762	1155	793	1203	823	1253	853	1304	882	1357	910	1411	937	1467	964	1524	990	1583	1015	1643	1039	1704	1063	1767	1086	1832	
2800 [1321]	—	573	927	608	969	642	1013	676	1058	708	1104	740	1152	771	1201	802	1252	832	1304	861	1358	889	1413	917	1470	943	1528	970	1587	995	1648	1020	1711	1044	1775	1067	1840	1090	1907	
2900 [1368]	—	586	964	620	1008	654	1054	687	1101	719	1150	750	1200	781	1252	811	1305	840	1360	869	1416	897	1473	924	1532	950	1593	976	1654	1001	1718	1025	1782	1048	1848	1071	1916	1093	1985	
3000 [1416]	564	959	1004	633	1051	666	1099	698	1149	730	1200	761	1253	791	1307	820	1362	849	1419	877	1477	904	1537	931	1598	957	1661	982	1725	1006	1791	1030	1858	1053	1926	1075	1996	1097	2067	
3100 [1463]	578	1001	612	1048	645	1098	678	1148	710	1200	741	1254	771	1308	801	1365	830	1423	858	1482	886	1542	912	1605	939	1668	964	1733	989	1800	1012	1868	1036	1937	1058	2008	1080	2080	1101	2154
3200 [1510]	592	1046	625	1096	658	1148	690	1201	721	1255	752	1311	782	1368	811	1427	840	1487	867	1548	894	1611	921	1676	946	1742	971	1809	995	1878	1019	1948	1041	2020	1063	2093	1085	2168	1105	2244
3300 [1557]	605	1096	638	1148	671	1202	702	1257	733	1314	763	1372	793	1432	821	1493	849	1555	877	1619	903	1684	929	1751	954	1819	979	1899	1002	1960	1025	2033	1047	2107	1069	2182	1090	2259	1110	2337
3400 [1604]	619	1149	652	1204	684	1260	715	1317	745	1376	775	1437	804	1499	832	1562	860	1627	886	1693	912	1761	938	1830	962	1900	986	1972	1009	2046	1032	2121	1053	2197	1074	2275	1095	2354	1114	2435
3500 [1652]	634	1206	666	1263	697	1322	728	1382	758	1443	787	1506	815	1570	843	1635	870	1702	896	1771	922	1841	946	1912	970	1985	994	2060	1017	2135	1038	2213	1060	2291	1080	2371	1100	2453	1119	2536
3600 [1699]	648	1267	680	1326	711	1387	741	1449	770	1513	799	1578	827	1645	854	1713	880	1782	906	1853	931	1925	955	1999	979	2074	1002	2151	1024	2229	1045	2308	1066	2389	1086	2472	1105	2556	1124	2641
3700 [1746]	663	1332	694	1393	724	1456	754	1521	783	1587	811	1654	838	1723	865	1793	891	1865	916	1938	941	2013	965	2089	988	2167	1010	2246	1032	2326	1053	2408	1073	2491	1092	2576	1111	2662	1129	2750
3800 [1793]	678	1400	708	1464	738	1529	767	1596	795	1665	823	1734	850	1805	876	1878	902	1952	926	2028	951	2105	974	2183	996	2263	1018	2344	1039	2427	1060	2511	1080	2597	1099	2684	1117	2772	1134	2862
3900 [1840]	693	1472	723	1538	752	1606	781	1675	808	1746	836	1818	862	1892	888	1966	913	2043	937	2121	961	2200	983	2281	1005	2363	1027	2447	1048	2532	1067	2618	1087	2706	1105	2796	1123	2886	1140	2979
4000 [1888]	708	1548	737	1617	766	1687	794	1758	822	1831	848	1906	874	1981	900	2059	924	2137	948	2218	971	2299	993	2382	1015	2467	1036	2553	1056	2640	1075	2729	1094	2819	1112	2911	1129	3004	1146	3099
4100 [1935]	723	1628	752	1699	781	1771	808	1845	835	1920	861	1997	887	2075	911	2155	935	2236	959	2318	981	2402	1003	2488	1024	2574	1045	2663	1064	2752	1083	2844	1101	2936	1119	3030	1136	3126	1152	3223

NOTE: A/F—Drive left of the bold line, B/G—Drive right of bold lines, C/H—Drive right of double line.

Drive Package	A/F	B/G					C/H											
Motor H.P. [W]	2 [1491.4]	3 [2237.1]					3 [2237.1]											
Blower Sheave	AK79H	AK79H					AK79H											
Motor Sheave	1VL40*7/8	1VP50*7/8					1VP56*7/8											
Belt	A49	A50					A51											
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	804	758	710	661	616	559	1048	1003	959	914	872	826	1168	1128	1087	1044	1002	957

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— 8.5 TON [29.9 kW] — 60 Hz — DOWNFLOW (con't.)

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				
	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)	
CFM [L/s]	Resistance — Inches of Water [kPa]							
2700 [1274]	0.97	0.93	0.99	0.07 [.02]	0.03 [.01]	0.80 [.20]	0.65 [.16]	
2800 [1321]	0.98	0.94	0.99	0.07 [.02]	0.03 [.01]	0.85 [.21]	0.69 [.17]	
2900 [1368]	0.98	0.96	0.99	0.08 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]	
3000 [1416]	0.99	0.97	1.00	0.08 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]	
3100 [1463]	0.99	0.99	1.00	0.09 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]	
3200 [1510]	1.00	1.00	1.00	0.10 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]	
3300 [1557]	1.01	1.01	1.00	0.10 [.03]	0.08 [.02]	1.15 [.29]	0.99 [.25]	
3400 [1604]	1.01	1.03	1.01	0.11 [.03]	0.09 [.02]	1.21 [.30]	1.05 [.26]	
3500 [1652]	1.02	1.04	1.01	0.11 [.03]	0.10 [.02]	1.29 [.32]	1.09 [.27]	
3600 [1699]	1.02	1.06	1.01	0.12 [.03]	0.11 [.03]	1.36 [.34]	1.13 [.28]	
3700 [1746]	1.03	1.07	1.02	0.13 [.03]	0.12 [.03]	1.43 [.36]	1.18 [.29]	
3800 [1793]	1.03	1.09	1.02	0.13 [.03]	0.13 [.03]	1.50 [.37]	1.23 [.31]	
3900 [1840]	1.04	1.10	1.02	0.14 [.04]	0.15 [.04]	1.59 [.40]	1.31 [.33]	
4000 [1888]	1.05	1.12	1.02	0.14 [.04]	0.16 [.04]	1.68 [.42]	1.38 [.34]	
4100 [1935]	1.05	1.13	1.03	0.15 [.04]	0.17 [.04]	1.74 [.43]	1.44 [.36]	

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions



# AIRFLOW PERFORMANCE— 8.5 TON [29.9 kW] — 60 Hz — SIDEFLOW (con't.)

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)
CFM [L/s]	Resistance — Inches of Water [kPa]						
2700 [1274]	0.97	0.93	0.99	0.07 [.02]	0.03 [.01]	0.80 [.20]	0.65 [.16]
2800 [1321]	0.98	0.94	0.99	0.07 [.02]	0.03 [.01]	0.85 [.21]	0.69 [.17]
2900 [1368]	0.98	0.96	0.99	0.08 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]
3000 [1416]	0.99	0.97	1.00	0.08 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]
3100 [1463]	0.99	0.99	1.00	0.09 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]
3200 [1510]	1.00	1.00	1.00	0.10 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]
3300 [1557]	1.01	1.01	1.00	0.10 [.03]	0.08 [.02]	1.15 [.29]	0.99 [.25]
3400 [1604]	1.01	1.03	1.01	0.11 [.03]	0.09 [.02]	1.21 [.30]	1.05 [.26]
3500 [1652]	1.02	1.04	1.01	0.11 [.03]	0.10 [.02]	1.29 [.32]	1.09 [.27]
3600 [1699]	1.02	1.06	1.01	0.12 [.03]	0.11 [.03]	1.36 [.34]	1.13 [.28]
3700 [1746]	1.03	1.07	1.02	0.13 [.03]	0.12 [.03]	1.43 [.36]	1.18 [.29]
3800 [1793]	1.03	1.09	1.02	0.13 [.03]	0.13 [.03]	1.50 [.37]	1.23 [.31]
3900 [1840]	1.04	1.10	1.02	0.14 [.04]	0.15 [.04]	1.59 [.40]	1.31 [.33]
4000 [1888]	1.05	1.12	1.02	0.15 [.04]	0.16 [.04]	1.68 [.42]	1.38 [.34]
4100 [1935]	1.05	1.13	1.03	0.15 [.04]	0.17 [.04]	1.74 [.43]	1.44 [.36]

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions



# AIRFLOW PERFORMANCE— 10 TON [35.1 kW] — 60 Hz — DOWNFLOW (con't.)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Drop)
	Resistance — Inches of Water [kPa]						
3200 [1510]	0.97	0.93	0.99	0.10 [0.02]	0.07 [0.02]	0.74 [0.18]	0.56 [0.14]
3300 [1557]	0.98	0.94	0.99	0.10 [0.03]	0.08 [0.02]	0.79 [0.20]	0.59 [0.15]
3400 [1604]	0.98	0.96	0.99	0.11 [0.03]	0.09 [0.02]	0.84 [0.21]	0.62 [0.15]
3500 [1652]	0.99	0.97	1.00	0.11 [0.03]	0.10 [0.02]	0.90 [0.22]	0.66 [0.16]
3600 [1699]	0.99	0.98	1.00	0.12 [0.03]	0.11 [0.03]	0.95 [0.24]	0.69 [0.17]
3700 [1746]	1.00	0.99	1.00	0.13 [0.03]	0.12 [0.03]	1.00 [0.25]	0.73 [0.18]
3800 [1793]	1.00	1.01	1.00	0.13 [0.03]	0.13 [0.03]	1.04 [0.26]	0.76 [0.19]
3900 [1840]	1.01	1.02	1.00	0.14 [0.04]	0.15 [0.04]	1.09 [0.27]	0.80 [0.20]
4000 [1888]	1.01	1.03	1.01	0.15 [0.04]	0.16 [0.04]	1.13 [0.28]	0.84 [0.21]
4100 [1935]	1.02	1.04	1.01	0.15 [0.04]	0.17 [0.04]	1.19 [0.30]	0.88 [0.22]
4200 [1982]	1.02	1.06	1.01	0.16 [0.04]	0.19 [0.05]	1.24 [0.31]	0.92 [0.23]
4300 [2029]	1.03	1.07	1.01	0.17 [0.04]	0.20 [0.05]	1.31 [0.33]	0.97 [0.24]
4400 [2076]	1.03	1.08	1.01	0.18 [0.04]	0.21 [0.05]	1.37 [0.34]	1.02 [0.25]
4500 [2123]	1.04	1.09	1.02	0.19 [0.05]	0.23 [0.06]	1.43 [0.35]	1.07 [0.27]
4600 [2171]	1.04	1.11	1.02	0.19 [0.05]	0.24 [0.06]	1.48 [0.37]	1.11 [0.28]
4700 [2218]	1.05	1.12	1.02	0.20 [0.05]	0.26 [0.06]	1.54 [0.38]	1.15 [0.29]
4800 [2265]	1.05	1.13	1.02	0.21 [0.05]	0.28 [0.07]	1.59 [0.40]	1.19 [0.30]

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions





# AIRFLOW PERFORMANCE— 10 TON [35.1 kW] — 60 Hz — SIDEFLOW (con't.)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AED3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AED3415 & Diffuser RXMC-DD02 (Drop)
3200 [1510]	0.97	0.93	0.99	0.10 [.02]	0.07 [.02]	0.74 [.18]	0.56 [.14]
3300 [1557]	0.98	0.94	0.99	0.10 [.03]	0.08 [.02]	0.79 [.20]	0.59 [.15]
3400 [1604]	0.98	0.96	0.99	0.11 [.03]	0.09 [.02]	0.84 [.21]	0.62 [.15]
3500 [1652]	0.99	0.97	1.00	0.11 [.03]	0.10 [.02]	0.90 [.22]	0.66 [.16]
3600 [1699]	0.99	0.98	1.00	0.12 [.03]	0.11 [.03]	0.95 [.24]	0.69 [.17]
3700 [1746]	1.00	0.99	1.00	0.13 [.03]	0.12 [.03]	1.00 [.25]	0.73 [.18]
3800 [1793]	1.00	1.01	1.00	0.13 [.03]	0.13 [.03]	1.04 [.26]	0.76 [.19]
3900 [1840]	1.01	1.02	1.00	0.14 [.04]	0.15 [.04]	1.09 [.27]	0.80 [.20]
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	1.13 [.28]	0.84 [.21]
4100 [1935]	1.02	1.04	1.01	0.15 [.04]	0.17 [.04]	1.19 [.30]	0.88 [.22]
4200 [1982]	1.02	1.06	1.01	0.16 [.04]	0.19 [.05]	1.24 [.31]	0.92 [.23]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	1.31 [.33]	0.97 [.24]
4400 [2076]	1.03	1.08	1.01	0.18 [.04]	0.21 [.05]	1.37 [.34]	1.02 [.25]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	1.43 [.35]	1.07 [.27]
4600 [2171]	1.04	1.11	1.02	0.19 [.05]	0.24 [.06]	1.48 [.37]	1.11 [.28]
4700 [2218]	1.05	1.12	1.02	0.20 [.05]	0.26 [.06]	1.54 [.38]	1.15 [.29]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.59 [.40]	1.19 [.30]

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RACDZ*150* 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]
4000 [1888]	766 [1776]	795 [1806]	824 [1842]	851 [1883]	878 [1931]	904 [1985]	929 [2044]	953 [2110]	976 [2181]	998 [2259]	1019 [2342]	1040 [2431]	1059 [2526]	1078 [2627]	1096 [2734]	1113 [2847]	1129 [2966]	1144 [3091]	1158 [3221]	1171 [3358]
4100 [1935]	778 [1820]	807 [1856]	835 [1897]	862 [1944]	888 [1997]	913 [2056]	937 [2120]	961 [2191]	983 [2268]	1005 [2350]	1026 [2439]	1045 [2533]	1064 [2634]	1082 [2740]	1099 [2852]	1116 [2970]	1131 [3094]	1145 [3224]	1159 [3360]	1171 [3502]
4200 [1982]	792 [1875]	820 [1915]	847 [1961]	873 [2014]	899 [2072]	923 [2136]	947 [2206]	969 [2282]	991 [2364]	1012 [2451]	1032 [2545]	1051 [2645]	1070 [2750]	1087 [2862]	1103 [2979]	1119 [3102]	1134 [3232]	1147 [3367]	1160 [3508]	1172 [3655]
4300 [2029]	806 [1938]	833 [1984]	859 [2036]	885 [2093]	910 [2156]	934 [2226]	957 [2301]	979 [2382]	1000 [2469]	1020 [2562]	1040 [2661]	1058 [2766]	1076 [2877]	1092 [2993]	1108 [3116]	1123 [3244]	1137 [3379]	1150 [3519]	1162 [3665]	1174 [3818]
4400 [2076]	820 [2012]	847 [2063]	873 [2119]	898 [2182]	922 [2251]	945 [2325]	967 [2404]	989 [2492]	1009 [2584]	1029 [2682]	1048 [2787]	1065 [2897]	1082 [3013]	1098 [3134]	1113 [3262]	1128 [3396]	1141 [3536]	1154 [3681]	1165 [3833]	1176 [3990]
4500 [2123]	835 [2095]	861 [2151]	886 [2213]	911 [2281]	934 [2355]	957 [2434]	978 [2520]	999 [2611]	1019 [2709]	1038 [2812]	1056 [2922]	1073 [3037]	1090 [3158]	1105 [3285]	1119 [3418]	1133 [3557]	1146 [3702]	1158 [3853]	1168 [4009]	1178 [4172]
4600 [2171]	851 [2187]	876 [2249]	901 [2316]	925 [2389]	947 [2468]	969 [2553]	990 [2644]	1010 [2740]	1030 [2843]	1048 [2952]	1065 [3066]	1082 [3187]	1097 [3313]	1112 [3445]	1126 [3584]	1139 [3728]	1151 [3878]	1162 [4034]	1172 [4196]	1182 [4363]
4700 [2218]	867 [2290]	892 [2356]	916 [2428]	939 [2507]	961 [2591]	982 [2681]	1003 [2774]	1022 [2879]	1041 [2987]	1058 [3101]	1075 [3220]	1091 [3346]	1106 [3478]	1120 [3615]	1133 [3759]	1145 [3908]	1157 [4063]	1167 [4224]	1177 [4391]	1186 [4564]
4800 [2265]	884 [2401]	908 [2473]	932 [2551]	954 [2634]	975 [2723]	996 [2819]	1016 [2920]	1034 [3027]	1052 [3140]	1069 [3259]	1085 [3384]	1101 [3515]	1115 [3652]	1128 [3795]	1141 [3943]	1153 [4098]	1163 [4258]	1173 [4425]	1182 [4597]	1190 [4775]
4900 [2312]	902 [2523]	925 [2599]	948 [2682]	969 [2771]	990 [2866]	1010 [2966]	1029 [3073]	1047 [3185]	1065 [3303]	1081 [3427]	1097 [3558]	1111 [3694]	1125 [3836]	1138 [3984]	1149 [4137]	1160 [4297]	1170 [4463]	1180 [4634]	1188 [4812]	1195 [4995]
5000 [2359]	920 [2653]	943 [2736]	965 [2824]	986 [2917]	1006 [3017]	1025 [3123]	1044 [3235]	1061 [3352]	1078 [3476]	1093 [3605]	1108 [3741]	1122 [3882]	1135 [4029]	1147 [4182]	1158 [4341]	1169 [4506]	1178 [4677]	1187 [4854]	1194 [5036]	1201 [5225]
5100 [2407]	939 [2794]	961 [2881]	982 [2974]	1003 [3073]	1022 [3179]	1041 [3289]	1058 [3406]	1075 [3529]	1091 [3658]	1106 [3792]	1120 [3933]	1134 [4079]	1146 [4232]	1158 [4390]	1168 [4554]	1178 [4725]	1187 [4901]	1194 [5083]	1201 [5270]	1208 [5464]
5200 [2454]	958 [2944]	980 [3036]	1000 [3135]	1020 [3239]	1039 [3349]	1057 [3465]	1074 [3588]	1090 [3716]	1105 [3849]	1120 [3989]	1133 [4135]	1146 [4287]	1158 [4444]	1168 [4608]	1178 [4777]	1187 [4953]	1196 [5134]	1203 [5321]	1209 [5514]	1215 [5713]
5300 [2501]	978 [3103]	999 [3201]	1019 [3305]	1038 [3414]	1056 [3530]	1074 [3651]	1090 [3778]	1106 [3912]	1120 [4051]	1134 [4196]	1147 [4347]	1159 [4504]	1170 [4666]	1180 [4835]	1189 [5010]	1198 [5190]	1205 [5377]	1212 [5569]	1217 [5767]	1222 [5972]
5400 [2548]	999 [3273]	1020 [3376]	1038 [3484]	1057 [3599]	1074 [3720]	1091 [3846]	1107 [3979]	1122 [4117]	1136 [4261]	1149 [4412]	1161 [4568]	1172 [4730]	1183 [4898]	1192 [5072]	1201 [5252]	1209 [5438]	1215 [5629]	1221 [5827]	1226 [6030]	—
5500 [2595]	1020 [3451]	1040 [3559]	1058 [3673]	1076 [3793]	1093 [3919]	1109 [4051]	1124 [4188]	1138 [4332]	1152 [4482]	1164 [4637]	1176 [4799]	1186 [4966]	1196 [5139]	1205 [5318]	1213 [5503]	1220 [5694]	1226 [5891]	—	—	—
5600 [2642]	1042 [3640]	1061 [3753]	1079 [3872]	1096 [3997]	1112 [4128]	1128 [4265]	1142 [4408]	1156 [4557]	1168 [4712]	1180 [4872]	1191 [5039]	1201 [5212]	1210 [5390]	1218 [5574]	1226 [5765]	—	—	—	—	—
5700 [2690]	1064 [3838]	1083 [3956]	1100 [4080]	1117 [4211]	1132 [4347]	1147 [4489]	1161 [4637]	1174 [4791]	1186 [4951]	1197 [5117]	1207 [5289]	1216 [5467]	1225 [5650]	—	—	—	—	—	—	—
5800 [2737]	1088 [4045]	1105 [4169]	1122 [4298]	1138 [4434]	1153 [4575]	1167 [4723]	1180 [4876]	1192 [5035]	1204 [5200]	1214 [5371]	1224 [5548]	—	—	—	—	—	—	—	—	—
5900 [2784]	1111 [4262]	1128 [4391]	1144 [4526]	1160 [4666]	1174 [4813]	1187 [4966]	1200 [5124]	1211 [5289]	1222 [5459]	—	—	—	—	—	—	—	—	—	—	—
6000 [2831]	1136 [4489]	1152 [4623]	1167 [4763]	1182 [4909]	1196 [5061]	1208 [5218]	1220 [5382]	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: A/F—Drive left of the bold line, B/G—Drive right of bold lines.

Drive Package	A/F	B/G
Motor H.P. [W]	3 [2237.1]	5 [3728.5]
Blower Sheave	AK71H	AK79H
Motor Sheave	1VL44*7/8	1VP60*1x1/8
Belt	A48	A52
Turns Open	0 1 2 3 4 5	0 1 2 3 4 5
RPM	1003 958 <b>912</b> 863 814 764	1220 1171 1127 1085 1039 <b>994</b>

- 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— 12.5 TON [43.9 kW] — 60 HZ — DOWNFLOW (con't.)

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3618 & Concentric Adapter RXMC-DD03 (Flush)	Concentric Diffuser RXRN-AEF3618 & Concentric Adapter RXMC-DD03 (Drop)
CFM [L/s]	Resistance — Inches of Water [kPa]						
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	0.76 [.19]	0.68 [.17]
4100 [1935]	1.02	1.04	1.01	0.16 [.04]	0.17 [.04]	0.79 [.20]	0.72 [.18]
4200 [1982]	1.02	1.06	1.01	0.17 [.04]	0.19 [.05]	0.82 [.20]	0.75 [.19]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	0.86 [.21]	0.79 [.20]
4400 [2076]	1.03	1.08	1.01	0.18 [.05]	0.21 [.05]	0.90 [.22]	0.83 [.21]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	0.94 [.23]	0.86 [.21]
4600 [2171]	1.04	1.11	1.02	0.20 [.05]	0.24 [.06]	0.98 [.24]	0.89 [.22]
4700 [2218]	1.05	1.12	1.02	0.21 [.05]	0.26 [.06]	1.02 [.25]	0.94 [.23]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.06 [.26]	0.98 [.24]
4900 [2312]	1.06	1.14	1.02	0.22 [.06]	0.29 [.07]	1.10 [.27]	1.01 [.25]
5000 [2359]	1.06	1.16	1.03	0.23 [.06]	0.31 [.08]	1.14 [.28]	1.04 [.26]
5100 [2407]	1.07	1.17	1.03	0.24 [.06]	0.33 [.08]	1.18 [.29]	1.07 [.27]
5200 [2454]	1.07	1.18	1.03	0.25 [.06]	0.35 [.09]	1.22 [.30]	1.10 [.27]
5300 [2501]	1.08	1.19	1.03	0.26 [.06]	0.36 [.09]	1.27 [.32]	1.15 [.29]
5400 [2548]	1.08	1.21	1.03	0.27 [.07]	0.38 [.09]	1.33 [.33]	1.20 [.30]
5500 [2595]	1.09	1.22	1.04	0.28 [.07]	0.40 [.10]	1.37 [.34]	1.25 [.31]
5600 [2643]	1.09	1.23	1.04	0.29 [.07]	0.42 [.10]	1.42 [.35]	1.30 [.32]
5700 [2690]	1.10	1.24	1.04	0.30 [.07]	0.44 [.11]	1.47 [.37]	1.34 [.33]
5800 [2737]	1.10	1.26	1.04	0.31 [.08]	0.46 [.11]	1.52 [.38]	1.38 [.34]
5900 [2784]	1.10	1.27	1.05	0.32 [.08]	0.48 [.12]	1.56 [.39]	1.42 [.35]
6000 [2831]	1.11	1.28	1.05	0.33 [.08]	0.51 [.13]	1.60 [.40]	1.45 [.36]

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RACDZ*150* 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]																				
4000 [1888]	—	791	1757	819	1824	846	1892	872	1961	897	2031	922	2101	946	2173	970	2245	993	2318	1015	2392	1036	2467	1057	2542	1077	2619	1096	2696	1115	2774	1133	2853	1150	2933	1167	3014	1183	3095	
4100 [1935]	782	1773	809	1841	836	1911	863	1982	888	2053	913	2125	937	2198	961	2272	984	2346	1006	2422	1027	2498	1048	2576	1068	2654	1088	2733	1106	2812	1124	2893	1142	2975	1158	3057	1174	3140	1189	3224
4200 [1982]	801	1860	828	1932	854	2004	880	2077	905	2150	929	2225	952	2300	975	2377	997	2454	1019	2532	1040	2611	1060	2691	1079	2771	1098	2853	1116	2935	1133	3018	1150	3102	1166	3187	1181	3272	1196	3359
4300 [2029]	819	1954	845	2028	871	2102	896	2177	920	2254	944	2331	967	2409	989	2488	1011	2567	1032	2648	1052	2729	1071	2811	1090	2894	1108	2978	1125	3063	1142	3149	1158	3235	1174	3323	1188	3411	1202	3500
4400 [2076]	837	2053	863	2129	888	2207	912	2284	936	2363	959	2443	981	2523	1003	2605	1024	2687	1044	2770	1064	2854	1082	2938	1101	3024	1118	3110	1135	3197	1151	3286	1166	3375	1181	3464	1195	3555	1208	3646
4500 [2123]	855	2159	880	2237	905	2317	929	2397	952	2479	974	2561	996	2644	1016	2727	1037	2812	1056	2897	1075	2984	1093	3071	1111	3159	1128	3248	1144	3338	1159	3428	1174	3520	1188	3612	1201	3705	1214	3799
4600 [2171]	873	2270	898	2351	921	2433	944	2516	967	2600	988	2684	1009	2770	1030	2856	1049	2943	1068	3031	1086	3120	1104	3210	1121	3300	1137	3392	1152	3484	1167	3577	1181	3671	1195	3766	1207	3861	1219	3958
4700 [2218]	891	2387	914	2471	938	2556	960	2641	982	2727	1003	2814	1023	2902	1043	2991	1062	3080	1080	3171	1097	3262	1114	3354	1130	3447	1146	3541	1161	3636	1175	3732	1188	3828	1201	3925	1213	4023	—	—
4800 [2265]	908	2511	931	2597	954	2684	975	2772	996	2860	1017	2950	1036	3040	1055	3132	1074	3224	1091	3317	1108	3410	1124	3505	1140	3601	1155	3697	1169	3794	1182	3892	1195	3991	1207	4091	1219	4191	—	—
4900 [2312]	925	2640	947	2729	969	2818	990	2908	1011	3000	1031	3092	1050	3184	1068	3278	1086	3373	1102	3468	1119	3565	1134	3662	1149	3760	1163	3859	1177	3958	1190	4059	1202	4160	1213	4262	—	—	—	—
5000 [2359]	942	2775	964	2866	985	2958	1005	3051	1025	3145	1044	3239	1062	3335	1080	3431	1097	3528	1113	3626	1129	3725	1144	3824	1158	3925	1172	4026	1185	4128	1197	4231	1208	4335	1219	4440	—	—	—	—
5100 [2407]	958	2916	979	3010	1000	3104	1020	3200	1039	3296	1057	3393	1075	3491	1092	3589	1108	3689	1124	3789	1139	3891	1153	3993	1167	4096	1180	4200	1192	4304	1204	4410	1214	4516	—	—	—	—	—	
5200 [2454]	975	3063	995	3160	1015	3256	1034	3354	1053	3453	1070	3552	1087	3653	1104	3754	1120	3856	1135	3959	1149	4063	1162	4167	1175	4273	1188	4379	1199	4486	1210	4594	1220	4703	—	—	—	—	—	
5300 [2501]	991	3217	1010	3315	1030	3415	1048	3515	1066	3616	1083	3718	1100	3821	1115	3924	1130	4029	1145	4134	1158	4241	1171	4348	1184	4456	1195	4564	1206	4674	1216	4785	—	—	—	—	—	—		
5400 [2548]	1006	3376	1026	3477	1044	3579	1062	3681	1079	3785	1096	3889	1111	3995	1126	4101	1141	4208	1155	4316	1168	4425	1180	4534	1192	4645	1203	4756	1213	4868	—	—	—	—	—	—	—	—		
5500 [2595]	1022	3541	1040	3644	1058	3749	1075	3854	1092	3960	1108	4067	1123	4175	1137	4283	1151	4393	1164	4503	1177	4614	1188	4726	1199	4839	1210	4953	1219	5068	—	—	—	—	—	—	—	—		
5600 [2643]	1037	3712	1055	3818	1072	3924	1089	4032	1105	4141	1120	4250	1134	4361	1148	4472	1161	4584	1174	4697	1185	4810	1196	4925	1207	5040	1216	5156	—	—	—	—	—	—	—	—	—	—		
5700 [2690]	1052	3888	1069	3997	1086	4106	1102	4217	1117	4328	1132	4440	1145	4552	1159	4666	1171	4780	1183	4896	1194	5012	1204	5129	1214	5247	—	—	—	—	—	—	—	—	—	—	—	—	—	
5800 [2737]	1067	4071	1083	4182	1099	4294	1115	4407	1129	4520	1143	4635	1156	4750	1169	4866	1181	4983	1192	5101	1202	5220	1212	5339	1221	5460	—	—	—	—	—	—	—	—	—	—	—	—	—	
5900 [2784]	1081	4260	1097	4374	1113	4488	1127	4603	1141	4719	1154	4836	1167	4954	1179	5073	1190	5192	1200	5312	1210	5433	1219	5555	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6000 [2831]	1095	4455	1111	4571	1126	4688	1139	4805	1153	4924	1165	5043	1177	5164	1188	5285	1199	5407	1209	5529	1218	5653	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: A/F-Drive left of the bold line, B/G-Drive right of bold lines.

Drive Package	A/F	B/G
Motor H.P. [W]	3 [2237.1]	5 [3728.5]
Blower Sheave	AK71H	AK79H
Motor Sheave	1V44*7/8	1VP60*1x1/2
Belt	A48	A52
Turns Open	0 1 2 3 4 5	0 1 2 3 4 5
RPM	1002 955 <b>909</b> 862 813 765	1208 1171 1127 1084 1038 <b>995</b>

- 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

# AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — SIDEFLOW (con't.)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3618 & Concentric Adapter RXMC-DD03 (Flush)	Concentric Diffuser RXRN-AEF3618 & Concentric Adapter RXMC-DD03 (Drop)
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	0.76 [.19]	0.68 [.17]
4100 [1935]	1.02	1.04	1.01	0.16 [.04]	0.17 [.04]	0.79 [.20]	0.72 [.18]
4200 [1982]	1.02	1.06	1.01	0.17 [.04]	0.19 [.05]	0.82 [.20]	0.75 [.19]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	0.86 [.21]	0.79 [.20]
4400 [2076]	1.03	1.08	1.01	0.18 [.05]	0.21 [.05]	0.90 [.22]	0.83 [.21]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	0.94 [.23]	0.86 [.21]
4600 [2171]	1.04	1.11	1.02	0.20 [.05]	0.24 [.06]	0.98 [.24]	0.89 [.22]
4700 [2218]	1.05	1.12	1.02	0.21 [.05]	0.26 [.06]	1.02 [.25]	0.94 [.23]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.06 [.26]	0.98 [.24]
4900 [2312]	1.06	1.14	1.02	0.22 [.06]	0.29 [.07]	1.10 [.27]	1.01 [.25]
5000 [2359]	1.06	1.16	1.03	0.23 [.06]	0.31 [.08]	1.14 [.28]	1.04 [.26]
5100 [2407]	1.07	1.17	1.03	0.24 [.06]	0.33 [.08]	1.18 [.29]	1.07 [.27]
5200 [2454]	1.07	1.18	1.03	0.25 [.06]	0.35 [.09]	1.22 [.30]	1.10 [.27]
5300 [2501]	1.08	1.19	1.03	0.26 [.06]	0.36 [.09]	1.27 [.32]	1.15 [.29]
5400 [2548]	1.08	1.21	1.03	0.27 [.07]	0.38 [.09]	1.33 [.33]	1.20 [.30]
5500 [2595]	1.09	1.22	1.04	0.28 [.07]	0.40 [.10]	1.37 [.34]	1.25 [.31]
5600 [2643]	1.09	1.23	1.04	0.29 [.07]	0.42 [.10]	1.42 [.35]	1.30 [.32]
5700 [2690]	1.10	1.24	1.04	0.30 [.07]	0.44 [.11]	1.47 [.37]	1.34 [.33]
5800 [2737]	1.10	1.26	1.04	0.31 [.08]	0.46 [.11]	1.52 [.38]	1.38 [.34]
5900 [2784]	1.10	1.27	1.05	0.32 [.08]	0.48 [.12]	1.56 [.39]	1.42 [.35]
6000 [2831]	1.11	1.28	1.05	0.33 [.08]	0.51 [.13]	1.60 [.40]	1.45 [.36]

\*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

### ELECTRICAL DATA – RACDZR SERIES

		<b>090ACA</b>	<b>090ACB 090ACC</b>	<b>090ADA</b>	<b>090ADB 090ADC</b>	<b>090AYA</b>	<b>090AYB</b>	<b>090AYC</b>
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	517-633	517-633	517-633
	Volts	208/230	208/230	460	460	575	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	41	43	21	23	16	17	17
	Minimum Overcurrent Protection Device Size	50	50	25	30	20	20	20
<b>Compressor Motor</b>	Maximum Overcurrent Protection Device Size	60	60	30	35	25	25	25
	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575	575
	Phase	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7	7	7	7
<b>Condenser Motor</b>	Amps (RLA), Comp. 1	25	25	12.8	12.8	9.6	9.6	9.6
	Amps (LRA), Comp. 1	164	164	100	100	78	78	78
	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575	575
	Phase	1	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5	1/5
<b>Evaporator Fan</b>	Amps (FLA, each)	1.2	1.2	0.8	0.8	0.6	0.6	0.6
	Amps (LRA, each)	2.3	2.3	1.4	1.4	1.1	1.1	1.1
	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575	575
	Phase	3	3	3	3	3	3	3
	HP	2	3	2	3	2	3	3
	Amps (FLA, each)	6.6	9.1	3.3	4.6	2.5	3.5	3.5
	Amps (LRA, each)	47	74.5	22.5	38.1	19	20	20

### ELECTRICAL DATA – RACDZR SERIES

		102ACA	102ACB	102ACC	102ADA	102ADB	102ADC	102AYA	102AYB	102AYC
<b>Unit Information</b>	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	44	46	49	22	23	24	16	17	17
	Minimum Overcurrent Protection Device Size	60	60	60	25	30	30	20	20	20
	Maximum Overcurrent Protection Device Size	70	70	70	30	35	35	25	25	25
<b>Compressor Motor</b>	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	209/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	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
<b>Condenser Motor</b>	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	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8	0.6	0.6	0.6
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4	1.1	1.1	1.1
	<b>Evaporator Fan</b>	No.	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		2	3	3	2	3	3	2	3	3
Amps (FLA, each)		7.1	9.1	12	3.5	4.6	6	2.5	3.5	3.5
Amps (LRA, each)		45	74.5	74.5	22.5	38.1	38.1	19	20	20

### ELECTRICAL DATA – RACDZR SERIES

		120ACA	120ACB	120ACC	120ADA	120ADB	120ADC	120AYA	120AYB	120AYC
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	517-633	518-632	518-632
	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	48	51	53	26	27	28	19	20	20
	Minimum Overcurrent Protection Device Size	60	60	60	30	30	35	25	25	25
	Maximum Overcurrent Protection Device Size	70	70	80	35	40	40	25	30	30
<b>Compressor Motor</b>	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
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	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)	239	239	239	130	130	130	93.7	93.7	93.7
<b>Condenser Motor</b>	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	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4	1	1	1
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4	4.7	4.7	4.7
<b>Evaporator Fan</b>	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	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	5	6	2.5	3.5	3.5
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1	19	20	20



### ELECTRICAL DATA – RACDZS SERIES

		<b>090ACA 090ACF</b>	<b>090ACB 090ACG 090ACH 090ACC</b>	<b>090ADA 090ADF</b>	<b>090ADB 090ADC 090ADG 090ADH</b>	<b>090AYA</b>	<b>090AYB</b>	<b>090AYC</b>
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	517-633	517-633	517-633
	Volts	208/230	208/230	460	460	575	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	41	44	17	19	13	14	14
	Minimum Overcurrent Protection Device Size	50	50	20	25	15	20	20
	Maximum Overcurrent Protection Device Size	60	60	25	25	15	20	20
<b>Compressor Motor</b>	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575	575
	Phase	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7	7	7	7
	Amps (RLA), Comp. 1	25.3	25.3	9.6	9.6	7.1	7.1	7.1
	Amps (LRA), Comp. 1	184	184	84	84	60	60	60
<b>Condenser Motor</b>	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575	575
	Phase	1	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8	0.6	0.6	0.6
	Amps (LRA, each)	2.3	2.3	1.4	1.4	1.1	1.1	1.1
	<b>Evaporator Fan</b>	No.	1	1	1	1	1	1
Volts		208/230	208/230	460	460	575	575	575
Phase		3	3	3	3	3	3	3
HP		2	3	2	3	2	3	3
Amps (FLA, each)		6.6	9.1	3.2	9.1	2.5	3.5	3.5
Amps (LRA, each)		22.5	74.5	22.5	38.1	19	20	20

### ELECTRICAL DATA – RACDZS SERIES

		<b>102ACA 102ACF</b>	<b>102ACB 102ACG</b>	<b>102ACC 102ACH</b>	<b>102ADA 102ADF</b>	<b>102ADB 102ADG</b>	<b>102ADC</b>	<b>102ADH</b>	<b>102AYA</b>	<b>102AYB</b>	<b>102AYC</b>
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	414-506	517-633	517-633	517-633
	Volts	208/230	208/230	208/230	460	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60	60
	Minimum Circuit	46	48	51	21	22	24	24	16	17	17
	Minimum Overcurrent Protection Device Size	60	60	60	25	25	30	30	20	20	20
	Maximum Overcurrent Protection Device Size	70	70	70	30	30	35	35	25	25	25
<b>Compressor Motor</b>	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
	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	7 1/2
	Amps (RLA), Comp. 1	28.8	28.8	28.8	12.5	12.5	12.5	12.5	9.7	9.7	9.7
	Amps (LRA), Comp. 1	191	191	191	100	100	100	100	70	70	70
<b>Condenser Motor</b>	No.	2	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	460	575	575	575
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.6	0.6	0.6
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4	1.4	1.1	1.1	1.1
<b>Evaporator Fan</b>	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	3	2	3	3
	Amps (FLA, each)	7.1	9.1	12	3.5	9.1	9.1	12	2.5	3.5	3.5
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1	38.1	19	20	20

### ELECTRICAL DATA – RACDZS SERIES

		120ACA 120ACF	120ACB 120ACG	120ACC 120ACH	120ADA 120ADF	120ADB 120ADG	120ADC 120ADH	120AYA	120AYB	120AYC
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	517-633	518-632	518-632
	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	54	56	58	26	27	28	19	20	20
	Minimum Overcurrent Protection Device Size	70	70	70	30	35	35	25	25	25
<b>Compressor Motor</b>	Maximum Overcurrent Protection Device Size	80	80	90	40	40	40	25	30	30
	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
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10	10	10	10
<b>Condenser Motor</b>	Amps (RLA), Comp. 1	32.6	32.6	32.6	14.8	14.8	14.8	11.1	11.1	11.1
	Amps (LRA), Comp. 1	240	240	240	130	130	130	93.7	93.7	93.7
	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	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
<b>Evaporator Fan</b>	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4	1	1	1
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4	4.7	4.7	4.7
	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	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	5.1	6.0	2.5	3.5	3.5
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1	19	20	20

### ELECTRICAL DATA – RACDZS SERIES

		150ACA	150ACB 150ACG	150ACF	150ADA 150ADF	150ADB 150ADG	150AYA	150AYB
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	70	75	70	34	37	25	27
	Minimum Overcurrent Protection Device Size	80	90	80	40	40	30	30
<b>Compressor Motor</b>	Maximum Overcurrent Protection Device Size	90	90	90	40	45	30	30
	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	6	6	6	6	6	6	6
	Amps (RLA), Comp. 1	22.4	22.4	22.4	10.6	10.6	7.7	7.7
	Amps (LRA), Comp. 1	164	164	164	100	100	78	78
	HP, Compressor 2	0	0	0	0	0	0	0
<b>Condenser Motor</b>	Amps (RLA), Comp. 2	22.4	22.4	22.4	10.6	10.6	7.7	7.7
	Amps (LRA), Comp. 2	164	164	164	100	100	78	78
	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4
<b>Evaporator Fan</b>	Amps (FLA, each)	4.2	4.2	4.2	2.3	2.3	1.2	1.2
	Amps (LRA, each)	10.1	10.1	10.1	4.9	4.9	1	1
	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	3	5	3	3	5	3	5
	Amps (FLA, each)	10.4	16	10.4	5.2	8	4.4	5.9
	Amps (LRA, each)	74.5	82	74.5	38.1	41	20	38

### ELECTRICAL DATA – ACDZT SERIES

		090ACF	090ACG 090ACH	090ADF	090ADG 090ADH
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	Hz	60	60	60	60
	Minimum Circuit Ampacity	41	44	17	21
	Minimum Overcurrent Protection Device Size	50	50	20	30
<b>Compressor Motor</b>	Maximum Overcurrent Protection Device Size	60	60	25	30
	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	RPM	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7
<b>Condenser Motor</b>	Amps (RLA), Comp. 1	25.3	25.3	9.6	9.6
	Amps (LRA), Comp. 1	184	184	84	84
	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	1	1	1	1
	HP	1/5	1/5	1/5	1/5
<b>Evaporator Fan</b>	Amps (FLA, each)	1.2	1.2	0.8	0.8
	Amps (LRA, each)	2.3	2.3	1.4	1.4
	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	HP	2	3	2	3
Amps (FLA, each)	6.6	9.1	3.2	4.6	
Amps (LRA, each)	22.5	74.5	22.5	38.1	

### ELECTRICAL DATA – ACDZT SERIES

		102ACF	102ACG	102ACH	102ADF	102ADG	102ADH
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	46	48	51	21	22	24
	Minimum Overcurrent Protection Device Size	60	60	60	25	25	30
	Maximum Overcurrent Protection Device Size	70	70	70	30	30	35
<b>Compressor Motor</b>	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	28.8	28.8	28.8	12.5	12.5	12.5
	Amps (LRA), Comp. 1	191	191	191	100	100	100
<b>Condenser Motor</b>	No.	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4
<b>Evaporator Fan</b>	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7	9.1	12	3.5	4.6	6.0
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

<b>ELECTRICAL DATA – ACDZT SERIES</b>							
		<b>120ACF</b>	<b>120ACG</b>	<b>120ACH</b>	<b>120ADF</b>	<b>120ADG</b>	<b>120ADH</b>
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	54	56	58	26	27	28
	Minimum Overcurrent Protection Device Size	70	70	70	30	35	35
	Maximum Overcurrent Protection Device Size	80	80	90	40	40	40
<b>Compressor Motor</b>	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	32.6	32.6	32.6	14.8	14.8	14.8
	Amps (LRA), Comp. 1	240	240	240	130	130	130
<b>Condenser Motor</b>	No.	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4
<b>Evaporator Fan</b>	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	5.1	6.0
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

### ELECTRICAL DATA – ACDZT SERIES

		150ACF	150ACG	150ADF	150ADG
<b>Unit Information</b>	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	Hz	60	60	60	60
	Minimum Circuit Ampacity	70	75	39	37
	Minimum Overcurrent Protection Device Size	80	90	40	40
	Maximum Overcurrent Protection Device Size	90	90	40	45
<b>Compressor Motor</b>	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	RPM	3450	3450	3450	3450
	HP, Compressor 1	6	6	6	6
	Amps (RLA), Comp. 1	22.4	22.4	10.6	10.6
	Amps (LRA), Comp. 1	164	164	100	100
	HP, Compressor 2	0	0	0	0
	Amps (RLA), Comp. 2	22.4	22.4	10.6	10.6
	Amps (LRA), Comp. 2	164	164	100	100
<b>Condenser Motor</b>	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	1	1	1	1
	HP	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	2.3	2.3
	Amps (LRA, each)	10.1	10.1	4.9	4.9
<b>Evaporator Fan</b>	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	HP	3	5	3	5
	Amps (FLA, each)	10.4	16	5.2	8
	Amps (LRA, each)	74.5	82	38.1	41



## 208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner					Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ampacity @ 208/240 V	Protective Device Size		Min. Circuit Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Ckt. Ampacity 208/240 V	Protective Device Size		Min. Circuit Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Ckt. Ampacity 208/240 V	Protective Device Size			
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V							
R090ACA	No Heat	—	—	—	—	41/41	50/60	50/60	—	—	—	41/41	50/60	50/60	—	—	—	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	50/60	26/30	30/30	26/30	41/41	50/60	50/60	30/30	30/30	26/30	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	50/50	60/60	38/44	40/45	38/44	41/41	50/60	50/60	40/45	40/45	38/44	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	60/60	70/70	52/60	60/60	52/60	41/41	50/60	50/60	60/60	60/60	41/41	50/60		
R090ACB	No Heat	—	—	—	—	112/128	125/125	150/150	82.5/95.2	110/125	104/119	41/41	50/60	50/60	110/125	110/125	104/119	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	43/43	50/60	50/60	—	—	—	43/43	50/60	50/60	—	—	43/43	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	60/60	38/44	40/45	38/44	43/43	50/60	50/60	40/45	40/45	38/44	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	52/60	43/43	50/60	50/60	60/60	60/60	43/43	50/60		
R090ACC	No Heat	—	—	—	—	115/131	125/125	150/150	82.5/95.2	110/125	104/119	43/43	50/60	50/60	110/125	110/125	104/119	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	43/43	50/60	50/60	—	—	—	43/43	50/60	50/60	—	—	43/43	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	60/60	38/44	40/45	38/44	43/43	50/60	50/60	40/45	40/45	38/44	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	52/60	43/43	50/60	50/60	60/60	60/60	43/43	50/60		
R102ACA	No Heat	—	—	—	—	44/44	60/70	60/70	—	—	—	44/44	60/70	60/70	—	—	44/44	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	60/70	60/70	26/30	30/30	26/30	44/44	60/70	60/70	30/30	30/30	26/30	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/53	60/70	60/70	38/44	40/45	38/44	44/44	60/70	60/70	40/45	40/45	38/44	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	70/70	52/60	60/60	52/60	44/44	60/70	60/70	60/60	60/60	44/44	60/70		
R102ACB	No Heat	—	—	—	—	112/128	125/125	150/150	82.5/95.2	110/125	104/119	46/46	60/70	60/70	110/125	110/125	104/119	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/70	60/70	—	—	—	46/46	60/70	60/70	—	—	46/46	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/70	60/70	38/44	40/45	38/44	46/46	60/70	60/70	40/45	40/45	38/44	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	52/60	46/46	60/70	60/70	60/60	60/60	46/46	60/70		
R102ACC	No Heat	—	—	—	—	115/131	125/125	150/150	82.5/95.2	110/125	104/119	49/49	60/70	60/70	110/125	110/125	104/119	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	49/49	60/70	60/70	—	—	—	49/49	60/70	60/70	—	—	49/49	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/70	60/70	38/44	40/45	38/44	49/49	60/70	60/70	40/45	40/45	38/44	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	52/60	49/49	60/70	60/70	60/60	60/60	49/49	60/70		

\* = For Canadian use only. Uses "rp" fuses for inductive circuit.

+ = Field installed only.



## 208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit					
Unit Model No. RACDZ-	Heater Kit				Air Conditioner				Heater Kit		Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min. Ampacity @ 208/240 V	Max. Fuse Size @ 208/240 V	Min. Circuit Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min. Ampacity @ 208/240 V	Max. Fuse Size @ 208/240 V	Min. Circuit Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V
R120ACA	No Heat	—	—	—	—	48/48	60/70	—	—	48/48	60/70	—	—	48/48	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	48/48	60/60	26/30	30/30	48/48	60/70	26/30	30/30	48/48	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	48/54	60/60	38/44	40/45	48/48	60/70	38/44	40/45	48/48	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	52/60	60/60	48/48	60/70	52/60	60/60	48/48	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	75/87	80/90	48/48	60/70	75/87	80/90	48/48	60/70
DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	104/119	110/125	48/48	60/70	104/119	110/125	48/48	60/70	
R120ACB	No Heat	—	—	—	—	51/51	60/70	—	—	51/51	60/70	—	—	51/51	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/60	26/30	30/30	51/51	60/70	26/30	30/30	51/51	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	51/56	60/60	38/44	40/45	51/51	60/70	38/44	40/45	51/51	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	52/60	60/60	51/51	60/70	52/60	60/60	51/51	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	75/87	80/90	51/51	60/70	75/87	80/90	51/51	60/70
DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	104/119	110/125	51/51	60/70	104/119	110/125	51/51	60/70	
R120ACC	No Heat	—	—	—	—	53/53	60/80	—	—	53/53	60/80	—	—	53/53	60/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	53/53	60/60	26/30	30/30	53/53	60/60	26/30	30/30	53/53	60/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	38/44	40/45	53/53	60/60	38/44	40/45	53/53	60/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	52/60	60/60	53/53	60/60	52/60	60/60	53/53	60/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	75/87	80/90	53/53	60/60	75/87	80/90	53/53	60/80
DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	104/119	110/125	53/53	60/80	104/119	110/125	53/53	60/80	
S090ACA	No Heat	—	—	—	—	41/41	50/60	—	—	41/41	50/60	—	—	41/41	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	26/30	30/30	41/41	50/50	26/30	30/30	41/41	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	50/50	38/44	40/45	41/41	50/60	38/44	40/45	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	60/60	52/60	60/60	41/41	50/60	52/60	60/60	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/95	90/90	75/87	80/90	41/41	50/60	75/87	80/90	50/60	50/60
DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	104/119	110/125	41/41	50/60	104/119	110/125	50/60	50/60	
S090ACB	No Heat	—	—	—	—	44/44	50/60	—	—	44/44	50/60	—	—	44/44	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/50	26/30	30/30	44/44	50/50	26/30	30/30	44/44	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	38/44	40/45	44/44	50/60	38/44	40/45	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	52/60	60/60	44/44	50/60	52/60	60/60	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	75/87	80/90	44/44	50/60	75/87	80/90	50/60	50/60
DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	104/119	110/125	44/44	50/60	104/119	110/125	50/60	50/60	
S090ACC	No Heat	—	—	—	—	44/44	50/60	—	—	44/44	50/60	—	—	44/44	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/50	26/30	30/30	44/44	50/50	26/30	30/30	44/44	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	38/44	40/45	44/44	50/60	38/44	40/45	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	52/60	60/60	44/44	50/60	52/60	60/60	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	75/87	80/90	44/44	50/60	75/87	80/90	50/60	50/60
DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	104/119	110/125	44/44	50/60	104/119	110/125	50/60	50/60	

\* = For Canadian use only. Uses "P" fuses for inductive circuit.  
+ = Field installed only.

## 208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner					Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Circuit Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Ckt. Ampacity 208/240 V	Over Current Protective Device Size		Min. Circuit Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Ckt. Ampacity 208/240 V	Over Current Protective Device Size			
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V							
S090ACF	No Heat	—	—	—	—	41/41	50/60	50/60	—	—	41/41	50/60	50/60	—	—	41/41	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	50/50	26/30	30/30	41/41	50/60	50/60	26/30	30/30	41/41	50/60	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	60/60	60/60	38/44	40/45	41/41	50/60	50/60	38/44	40/45	41/41	50/60	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	70/70	70/70	52/60	60/60	41/41	50/60	50/60	52/60	60/60	41/41	50/60	50/60		
S090AGG	No Heat	—	—	—	—	112/128	125/125	150/150	104/119	110/125	41/41	50/60	50/60	104/119	110/125	41/41	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/60	50/60	26/30	30/30	44/44	50/60	50/60	26/30	30/30	44/44	50/60	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	60/60	38/44	40/45	44/44	50/60	50/60	38/44	40/45	44/44	50/60	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	70/70	52/60	60/60	44/44	50/60	50/60	52/60	60/60	44/44	50/60	50/60		
S090ACH	No Heat	—	—	—	—	115/131	125/125	150/150	104/119	110/125	44/44	50/60	50/60	104/119	110/125	44/44	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/60	50/60	26/30	30/30	44/44	50/60	50/60	26/30	30/30	44/44	50/60	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	60/60	38/44	40/45	44/44	50/60	50/60	38/44	40/45	44/44	50/60	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	70/70	52/60	60/60	44/44	50/60	50/60	52/60	60/60	44/44	50/60	50/60		
S102ACA	No Heat	—	—	—	—	115/131	125/125	150/150	104/119	110/125	44/44	50/60	50/60	104/119	110/125	44/44	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/70	60/70	26/30	30/30	46/46	60/70	60/70	26/30	30/30	46/46	60/70	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/52	60/60	60/60	38/44	40/45	46/46	60/60	60/70	38/44	40/45	46/46	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	70/70	52/60	60/60	46/46	60/60	60/70	52/60	60/60	46/46	60/70	60/70		
S102ACB	No Heat	—	—	—	—	112/128	125/125	150/150	104/119	110/125	48/48	60/70	60/70	104/119	110/125	48/48	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	48/48	60/60	60/60	26/30	30/30	48/48	60/60	60/70	26/30	30/30	48/48	60/70	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	60/60	38/44	40/45	48/48	60/60	60/70	38/44	40/45	48/48	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	70/70	52/60	60/60	48/48	60/60	60/70	52/60	60/60	48/48	60/70	60/70		
S102ACC	No Heat	—	—	—	—	115/131	125/125	150/150	104/119	110/125	51/51	60/70	60/70	104/119	110/125	48/48	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/70	60/60	26/30	30/30	51/51	60/70	60/70	26/30	30/30	51/51	60/70	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	60/60	38/44	40/45	51/51	60/60	60/70	38/44	40/45	51/51	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	70/70	52/60	60/60	51/51	60/60	60/70	52/60	60/60	51/51	60/70	60/70		

\* = For Canadian use only. Uses "rp" fuses for inductive circuit.

+ = Field installed only.

**208/240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION**

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit				
Unit Model No. RACDZ-	Heater Kit				Air Conditioner				Heater Kit		Air Conditioner			
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min. Ampacity @ 208/240 V	Max. Fuse Size @ 208/240 V	Min. Circuit Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min./Max. @ 240 V		
S102ACF	No Heat	—	—	—	—	46/46	60/70	—	—	46/46	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/60	26/30	30/30	46/46	60/70	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/53	60/60	38/44	40/45	46/46	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	52/60	60/60	46/46	60/70	60/70		
S102ACG	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/96	90/90	75/87	80/90	46/46	60/70	60/70		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	104/119	110/125	46/46	60/70	60/70		
	No Heat	—	—	—	—	48/48	60/70	—	—	48/48	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	48/48	60/60	26/30	30/30	48/48	60/70	60/70		
S102ACH	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	38/44	40/45	48/48	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	52/60	60/60	48/48	60/70	60/70		
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	75/87	80/90	48/48	60/70	60/70		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	104/119	110/125	48/48	60/70	60/70		
S120ACA	No Heat	—	—	—	—	51/51	60/70	—	—	51/51	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/60	26/30	30/30	51/51	60/70	60/70		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	38/44	40/45	51/51	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	52/60	60/60	51/51	60/70	60/70		
S120ACB	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	75/87	80/90	51/51	60/70	60/70		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	104/119	110/125	51/51	60/70	60/70		
	No Heat	—	—	—	—	54/54	70/80	—	—	54/54	70/80	70/80		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	54/54	70/70	26/30	30/30	54/54	70/80	70/80		
S120ACC	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	54/54	70/70	38/44	40/45	54/54	70/80	70/80		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	52/60	60/60	54/54	70/80	70/80		
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	75/87	80/90	54/54	70/80	70/80		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	104/119	110/125	54/54	70/80	70/80		
S120ACD	No Heat	—	—	—	—	56/56	70/80	—	—	56/56	70/80	70/80		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	56/56	70/70	26/30	30/30	56/56	70/80	70/80		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	56/56	70/70	38/44	40/45	56/56	70/80	70/80		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	52/60	60/60	56/56	70/80	70/80		
S120ACE	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	75/87	80/90	56/56	70/80	70/80		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	104/119	110/125	56/56	70/80	70/80		
	No Heat	—	—	—	—	58/58	70/90	—	—	58/58	70/90	70/90		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	58/58	70/70	26/30	30/30	58/58	70/90	70/90		
S120ACF	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	58/59	70/70	38/44	40/45	58/58	70/90	70/90		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	52/60	60/60	58/58	70/90	70/90		
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	75/87	80/90	58/58	70/90	70/90		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	104/119	110/125	58/58	70/90	70/90		

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+ = Field installed only.

## 208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner					Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ampacity @ 208/240 V	Protective Device Size		Min. Circuit Ampacity 208/240 V	Over Current Min./Max. @ 208 V	Min. Ckt. Ampacity 208/240 V	Max. Fuse Size 208/240 V	Over Current Min./Max. @ 208 V	Min. Circuit Ampacity 208/240 V	Over Current Min./Max. @ 240 V					
							Min./Max. @ 208 V	Min./Max. @ 240 V												
S120ACF	No Heat	—	—	—	—	54/54	70/80	70/80	54/54	70/80	—	—	70/80	54/54	70/80					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	54/54	70/70	70/70	54/54	70/80	30/30	—	70/80	54/54	70/80					
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	54/54	70/70	70/70	54/54	70/80	40/45	—	70/80	54/54	70/80					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	70/70	54/54	70/80	60/60	—	70/80	54/54	70/80					
S120ACG	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	100/100	54/54	70/80	80/90	—	70/80	54/54	70/80					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	150/150	54/54	70/80	110/125	—	70/80	54/54	70/80					
	No Heat	—	—	—	—	56/56	70/80	70/80	56/56	70/80	—	—	70/80	56/56	70/80					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	56/56	70/70	70/70	56/56	70/80	30/30	—	70/80	56/56	70/80					
S120ACH	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	56/56	70/70	70/70	56/56	70/80	40/45	—	70/80	56/56	70/80					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	80/80	56/56	70/80	60/60	—	70/80	56/56	70/80					
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	56/56	70/80	80/90	—	70/80	56/56	70/80					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	150/150	56/56	70/80	110/125	—	70/80	56/56	70/80					
S150ACA	No Heat	—	—	—	—	58/58	70/90	70/90	58/58	70/90	—	—	70/90	58/58	70/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	58/58	70/70	70/70	58/58	70/90	30/30	—	70/90	58/58	70/90					
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	58/59	70/70	70/70	58/58	70/90	40/45	—	70/90	58/58	70/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	58/58	70/90	60/60	—	70/90	58/58	70/90					
S150ACB	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	58/58	70/90	80/90	—	70/90	58/58	70/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	58/58	70/90	110/125	—	70/90	58/58	70/90					
	No Heat	—	—	—	—	70/70	80/90	80/90	70/70	80/90	—	—	70/70	80/90	80/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	70/70	80/90	80/90	70/70	80/90	30/30	—	80/90	70/70	80/90					
S150ACF	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	70/70	80/90	80/90	70/70	80/90	40/45	—	80/90	70/70	80/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	70/73	80/90	80/90	70/70	80/90	60/60	—	80/90	70/70	80/90					
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	70/70	80/90	80/90	—	80/90	70/70	80/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	117/132	125/125	150/150	70/70	80/90	110/125	—	80/90	70/70	80/90					
S150ACG	No Heat	—	—	—	—	75/75	90/90	90/90	75/75	90/90	—	—	90/90	75/75	90/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	75/75	90/90	90/90	75/75	90/90	30/30	—	90/90	75/75	90/90					
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	75/75	90/90	90/90	75/75	90/90	40/45	—	90/90	75/75	90/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	75/80	90/90	90/90	75/75	90/90	60/60	—	90/90	75/75	90/90					
S150ACH	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	95/107	100/100	110/110	75/75	90/90	80/90	—	90/90	75/75	90/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	124/139	125/125	150/150	75/75	90/90	110/125	—	90/90	75/75	90/90					
	No Heat	—	—	—	—	70/70	80/90	80/90	70/70	80/90	—	—	70/70	80/90	80/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	70/70	80/90	80/90	70/70	80/90	30/30	—	80/90	70/70	80/90					
S150ACF	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	70/70	80/90	80/90	70/70	80/90	40/45	—	80/90	70/70	80/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	70/73	80/90	80/90	70/70	80/90	60/60	—	80/90	70/70	80/90					
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	70/70	80/90	80/90	—	80/90	70/70	80/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	117/132	125/125	150/150	70/70	80/90	110/125	—	80/90	70/70	80/90					

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+ = Field installed only.



## 208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit				
Unit Model No. RACDZ-	Heater Kit				Air Conditioner				Heater Kit		Air Conditioner			
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min. Ckt. Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Circuit Ampacity 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min./Max. @ 240 V		
S150AGG	No Heat	—	—	—	—	75/75	90/90	—	—	75/75	90/90	90/90		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	75/75	90/90	26/30	30/30	75/75	90/90	90/90		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	75/75	90/90	38/44	40/45	75/75	90/90	90/90		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	75/80	90/90	52/60	60/60	75/75	90/90	90/90		
T090ACF	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	95/107	100/100	75/87	80/90	75/75	90/90	90/90		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	124/139	125/125	104/119	110/125	75/75	90/90	90/90		
	No Heat	—	—	—	—	41/41	50/60	—	—	41/41	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	26/30	30/30	41/41	50/60	50/60		
T090ACG	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	50/50	38/44	40/45	41/41	50/60	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	60/60	52/60	60/60	41/41	50/60	50/60		
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/95	90/90	75/87	80/90	41/41	50/60	50/60		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	104/119	110/125	41/41	50/60	50/60		
T090ACH	No Heat	—	—	—	—	44/44	50/60	—	—	44/44	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/50	26/30	30/30	44/44	50/60	50/60		
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	38/44	40/45	44/44	50/60	50/60		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	52/60	60/60	44/44	50/60	50/60		
T102ACF	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	75/87	80/90	44/44	50/60	50/60		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	104/119	110/125	44/44	50/60	50/60		
	No Heat	—	—	—	—	46/46	60/70	—	—	46/46	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/60	26/30	30/30	46/46	60/70	60/70		
T102ACG	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/52	60/60	38/44	40/45	46/46	60/70	60/70		
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	52/60	60/60	46/46	60/70	60/70		
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/96	90/90	75/87	80/90	46/46	60/70	60/70		
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	104/119	110/125	46/46	60/70	60/70		

\* = For Canadian use only. Uses "P" fuses for inductive circuit.  
+ = Field installed only.



## 208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner					Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Protective Device Size		Min. Circuit Ampacity 208/240 V	Over Current Min./Max. @ 208 V	Min. Ckt. Ampacity 208/240 V	Max. Fuse Size 208/240 V	Protective Device Size		Min. Circuit Ampacity 208/240 V	Over Current Min./Max. @ 208 V				
							Min./Max. @ 208 V	Min./Max. @ 240 V					Min./Max. @ 208 V	Min./Max. @ 240 V						
T102ACH	No Heat	—	—	—	—	51/51	60/70	60/70	—	—	—	—	51/51	60/70	60/70					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/60	60/60	30/30	26/30	30/30	—	51/51	60/70	60/70					
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	60/60	40/45	38/44	40/45	—	51/51	60/70	60/70					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	60/60	52/60	60/60	—	51/51	60/70	60/70					
T120ACF	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	80/90	75/87	80/90	—	51/51	60/70	60/70					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	110/125	104/119	110/125	—	51/51	60/70	60/70					
	No Heat	—	—	—	—	54/54	70/80	70/80	—	—	—	—	54/54	70/80	70/80					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	54/54	70/70	70/70	30/30	26/30	30/30	—	54/54	70/80	70/80					
T120ACG	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	54/54	70/70	70/70	40/45	38/44	40/45	—	54/54	70/80	70/80					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	70/70	60/60	52/60	60/60	—	54/54	70/80	70/80					
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	100/100	80/90	75/87	80/90	—	54/54	70/80	70/80					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	150/150	110/125	104/119	110/125	—	54/54	70/80	70/80					
T120ACH	No Heat	—	—	—	—	56/56	70/80	70/80	—	—	—	—	56/56	70/80	70/80					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	56/56	70/70	70/70	30/30	26/30	30/30	—	56/56	70/80	70/80					
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	56/56	70/70	70/70	40/45	38/44	40/45	—	56/56	70/80	70/80					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	80/80	60/60	52/60	60/60	—	56/56	70/80	70/80					
150ACF	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	80/90	75/87	80/90	—	56/56	70/80	70/80					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	150/150	110/125	104/119	110/125	—	56/56	70/80	70/80					
	No Heat	—	—	—	—	58/58	70/90	70/90	—	—	—	—	58/58	70/90	70/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	58/58	70/70	70/70	30/30	26/30	30/30	—	58/58	70/90	70/90					
150ACG	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	58/59	70/70	70/70	40/45	38/44	40/45	—	58/58	70/90	70/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	60/60	52/60	60/60	—	58/58	70/90	70/90					
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	80/90	75/87	80/90	—	58/58	70/90	70/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	110/125	104/119	110/125	—	58/58	70/90	70/90					
150ACG	No Heat	—	—	—	—	70/70	90/90	90/90	—	—	—	—	70/70	80/90	80/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	70/70	90/90	90/90	30/30	26/30	30/30	—	70/70	80/90	80/90					
	DD15CP	1	9.0/14.4	36.85/49.13	30.0/34.6	70/70	90/90	90/90	40/45	38/44	40/45	—	70/70	80/90	80/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	70/73	90/90	90/90	60/60	52/60	60/60	—	70/70	80/90	80/90					
150ACG	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/100	90/100	80/90	75/87	80/90	—	70/70	80/90	80/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	117/132	125/150	125/150	110/125	104/119	110/125	—	70/70	80/90	80/90					
	No Heat	—	—	—	—	75/75	90/90	90/90	—	—	—	—	75/75	90/90	90/90					
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	75/75	90/90	90/90	30/30	26/30	30/30	—	75/75	90/90	90/90					
150ACG	DD15CP	1	9.0/14.4	36.85/49.13	30.0/34.6	75/75	90/90	90/90	40/45	38/44	40/45	—	75/75	90/90	90/90					
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	75/80	90/90	90/90	60/60	52/60	60/60	—	75/75	90/90	90/90					
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	95/107	100/110	100/110	80/90	75/87	80/90	—	75/75	90/90	90/90					
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	124/139	125/150	125/150	110/125	104/119	110/125	—	75/75	90/90	90/90					

\* = For Canadian use only. Uses "rp" fuses for inductive circuit.

+ = Field installed only.

**480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION****Separate Power Supply For Both Unit and Heater Kit**

Unit Model No. RACDZ-	Single Power Supply For Both Unit and Heater Kit						Separate Power Supply For Both Unit and Heater Kit					
	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner		
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size Min./Max @ 480 V	Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max @ 480 V	
R090ADA	No Heat	—	—	—	—	21	25/30	—	—	21	25/30	
	DD10DNV	1	9.9	33.78	11.9	21	25/25	15	15	21	25/30	
	DD15DNV	1	14.4	49.13	17.3	26	30/30	22	25	21	25/30	
	DD20DNV	1	19.8	67.56	23.8	34	35/35	30	30	21	25/30	
	DD30DNV	1	28.8	98.27	34.6	48	50/50	44	45	21	25/30	
R090ADB	DD40DNV	1	39.6	135.12	47.6	64	70/70	60	60	21	25/30	
	No Heat	—	—	—	—	23	30/35	—	—	23	30/35	
	DD10DNV	1	9.9	33.78	11.9	23	30/30	15	15	23	30/35	
	DD15DNV	1	14.4	49.13	17.3	28	30/30	22	25	23	30/35	
	DD20DNV	1	19.8	67.56	23.8	36	40/40	30	30	23	30/35	
R090ADC	DD30DNV	1	28.8	98.27	34.6	49	50/50	44	45	23	30/35	
	DD40DNV	1	39.6	135.12	47.6	66	70/70	60	60	23	30/35	
	No Heat	—	—	—	—	23	30/35	—	—	23	30/35	
	DD10DNV	1	9.9	33.78	11.9	23	30/30	15	15	23	30/35	
	DD15DNV	1	14.4	49.13	17.3	28	30/30	22	25	23	30/35	
R102ADA	DD20DNV	1	19.8	67.56	23.8	36	40/40	30	30	23	30/35	
	DD30DNV	1	28.8	98.27	34.6	49	50/50	44	45	23	30/35	
	DD40DNV	1	39.6	135.12	47.6	66	70/70	60	60	23	30/35	
	No Heat	—	—	—	—	22	25/30	—	—	22	25/30	
	DD10CP	1	36.2	123.52	45.6	62	70/70	57	60	22	25/30	
R102ADB	DD15CP	1	52.8	180.16	66.3	88	90/90	83	90	22	25/30	
	DD20CP	1	72.9	248.75	91.3	119	125/125	115	125	22	25/30	
	DD30CP	1	105.6	360.32	132.7	171	175/175	166	175	22	25/30	
	DD40CP	1	145.3	495.78	182.5	233	250/250	229	250	22	25/30	
	No Heat	—	—	—	—	23	30/35	—	—	23	30/35	
R102ADC	DD10CP	1	36.2	123.52	45.6	63	70/70	57	60	23	30/35	
	DD15CP	1	52.8	180.16	66.3	89	90/90	83	90	23	30/35	
	DD20CP	1	72.9	248.75	91.3	120	125/125	115	125	23	30/35	
	DD30CP	1	105.6	360.32	132.7	172	175/175	166	175	23	30/35	
	DD40CP	1	145.3	495.78	182.5	234	250/250	229	250	23	30/35	
R102ADZ	No Heat	—	—	—	—	24	30/35	—	—	24	30/35	
	DD10CP	1	36.2	123.52	45.6	65	70/70	57	60	24	30/35	
	DD15CP	1	52.8	180.16	66.3	91	100/100	83	90	24	30/35	
	DD20CP	1	72.9	248.75	91.3	122	125/125	115	125	24	30/35	
	DD30CP	1	105.6	360.32	132.7	174	175/175	166	175	24	30/35	
DD40CP	1	145.3	495.78	182.5	236	250/250	229	250	24	30/35		

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### 480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit					
Unit Model No. RACDZ-	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner			
			Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size Min./Max @ 480 V	Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max @ 480 V				
R120ADA	No Heat	—	—	—	—	26	30/35	—	—	—	26	30/35	—		
	DD10DNV	1	9.9	33.78	11.9	26	30/30	15	15	26	30/35	—			
	DD15DNV	1	14.4	49.13	17.3	27	30/30	22	25	26	30/35	—			
	DD20DNV	1	19.8	67.56	23.8	35	35/35	30	30	26	30/35	—			
	DD30DNV	1	28.8	98.27	34.6	49	50/50	44	45	26	30/35	—			
DD40DNV	1	39.6	135.12	47.6	65	70/70	60	60	26	30/35	—				
R120ADB	No Heat	—	—	—	—	27	30/40	—	—	—	27	30/40	—		
	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	15	27	30/40	—			
	DD15DNV	1	14.4	49.13	17.3	28	30/30	22	25	27	30/40	—			
	DD20DNV	1	19.8	67.56	23.8	36	40/40	30	30	27	30/40	—			
	DD30DNV	1	28.8	98.27	34.6	50	50/50	44	45	27	30/40	—			
DD40DNV	1	39.6	135.12	47.6	66	70/70	60	60	27	30/40	—				
R120ADC	No Heat	—	—	—	—	28	35/40	—	—	—	28	35/40	—		
	DD10DNV	1	9.9	33.78	11.9	28	35/35	15	15	28	35/40	—			
	DD15DNV	1	14.4	49.13	17.3	30	35/35	22	25	28	35/40	—			
	DD20DNV	1	19.8	67.56	23.8	38	40/40	30	30	28	35/40	—			
	DD30DNV	1	28.8	98.27	34.6	51	60/60	44	45	28	35/40	—			
DD40DNV	1	39.6	135.12	47.6	67	70/70	60	60	28	35/40	—				
S090ADA	No Heat	—	—	—	—	17	20/25	—	—	—	17	20/25	—		
	DD10DNV	1	9.9	33.78	11.9	19	20/20	15	15	17	20/25	—			
	DD15DNV	1	14.4	49.13	17.3	26	30/30	22	25	17	20/25	—			
	DD20DNV	1	19.8	67.56	23.8	34	35/35	30	30	17	20/25	—			
	DD30DNV	1	28.8	98.27	34.6	48	50/50	44	45	17	20/25	—			
DD40DNV	1	39.6	135.12	47.6	64	70/70	60	60	17	20/25	—				
S090ADB	No Heat	—	—	—	—	19	25/25	—	—	—	19	25/25	—		
	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	15	19	25/25	—			
	DD15DNV	1	14.4	49.13	17.3	33	35/35	22	25	19	25/25	—			
	DD20DNV	1	19.8	67.56	23.8	42	45/45	30	30	19	25/25	—			
	DD30DNV	1	28.8	98.27	34.6	55	60/60	44	45	19	25/25	—			
DD40DNV	1	39.6	135.12	47.6	71	80/80	60	60	19	25/25	—				
S090ADC	No Heat	—	—	—	—	19	25/25	—	—	—	19	25/25	—		
	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	15	19	25/25	—			
	DD15DNV	1	14.4	49.13	17.3	33	35/35	22	25	19	25/25	—			
	DD20DNV	1	19.8	67.56	23.8	42	45/45	30	30	19	25/25	—			
	DD30DNV	1	28.8	98.27	34.6	55	60/60	44	45	19	25/25	—			
DD40DNV	1	39.6	135.12	47.6	71	80/80	60	60	19	25/25	—				

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## 480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size		Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max. @ 480 V
							Min./Max. @ 480 V	Min./Max. @ 480 V		
Single Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size		Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max. @ 480 V
							Min./Max. @ 480 V	Min./Max. @ 480 V		
S090ADF	No Heat	—	—	—	—	17	20/25	—	17	20/25
	DD10DNV	1	9.9	33.78	11.9	19	20/20	15	17	20/25
	DD15DNV	1	14.4	49.13	17.3	26	30/30	22	17	20/25
	DD20DNV	1	19.8	67.56	23.8	34	35/35	30	17	20/25
	DD30DNV	1	28.8	98.27	34.6	48	50/50	44	17	20/25
S090ADG	DD40DNV	1	39.6	135.12	47.6	64	70/70	60	17	20/25
	No Heat	—	—	—	—	19	25/25	—	19	25/25
	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	19	25/25
	DD15DNV	1	14.4	49.13	17.3	33	35/35	22	19	25/25
	DD20DNV	1	19.8	67.56	23.8	42	45/45	30	19	25/25
S090ADH	DD30DNV	1	28.8	98.27	34.6	55	60/60	44	19	25/25
	DD40DNV	1	39.6	135.12	47.6	71	80/80	60	19	25/25
	No Heat	—	—	—	—	19	25/25	—	19	25/25
	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	19	25/25
	DD15DNV	1	14.4	49.13	17.3	33	35/35	22	19	25/25
S102ADA	DD20DNV	1	19.8	67.56	23.8	42	45/45	30	19	25/25
	DD30DNV	1	28.8	98.27	34.6	55	60/60	44	19	25/25
	DD40DNV	1	39.6	135.12	47.6	71	80/80	60	19	25/25
	No Heat	—	—	—	—	21	25/30	—	21	25/30
	DD10DNV	1	9.9	33.78	11.9	21	25/25	15	21	25/30
S102ADB	DD15DNV	1	14.4	49.13	17.3	26	30/30	22	21	25/30
	DD20DNV	1	19.8	67.56	23.8	35	35/35	30	21	25/30
	DD30DNV	1	28.8	98.27	34.6	48	50/50	44	21	25/30
	DD40DNV	1	39.6	135.12	47.6	64	70/70	60	21	25/30
	No Heat	—	—	—	—	22	25/30	—	22	25/30
S102ADC	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	22	25/30
	DD15DNV	1	14.4	49.13	17.3	33	35/35	22	22	25/30
	DD20DNV	1	19.8	67.56	23.8	42	45/45	30	22	25/30
	DD30DNV	1	28.8	98.27	34.6	55	60/60	44	22	25/30
	DD40DNV	1	39.6	135.12	47.6	71	80/80	60	22	25/30
S102ADC	No Heat	—	—	—	—	24	30/35	—	24	30/35
	DD10DNV	1	9.9	33.78	11.9	27	30/30	15	24	30/35
	DD15DNV	1	14.4	49.13	17.3	33	35/35	22	24	30/35
	DD20DNV	1	19.8	67.56	23.8	42	45/45	30	24	30/35
	DD30DNV	1	28.8	98.27	34.6	55	60/60	44	24	30/35
DD40DNV	1	39.6	135.12	47.6	71	80/80	60	24	30/35	

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+ = Field installed only.



Air

Electric Heater Kits  
RACD Series

## 480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner					Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size Min./Max @ 480 V	Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max @ 480 V	Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max @ 480 V					
S102ADF	No Heat	—	—	—	—	21	25/30	—	—	21	25/30	—	—	21	25/30					
	DD10DNV	1	9.9	33.78	11.9	21	25/25	—	15	21	25/30	—	15	21	25/30					
	DD15DNV	1	14.4	49.13	17.3	26	30/30	—	22	21	25/30	—	25	21	25/30					
	DD20DNV	1	19.8	67.56	23.8	35	35/35	—	30	21	25/30	—	30	21	25/30					
	DD30DNV	1	28.8	98.27	34.6	48	50/50	—	44	21	25/30	—	45	21	25/30					
DD40DNV	1	39.6	135.12	47.6	64	70/70	—	60	21	25/30	—	60	21	25/30						
S102ADG	No Heat	—	—	—	—	22	25/30	—	—	22	25/30	—	—	22	25/30					
	DD10DNV	1	9.9	33.78	11.9	27	30/30	—	15	22	25/30	—	15	22	25/30					
	DD15DNV	1	14.4	49.13	17.3	33	35/35	—	22	22	25/30	—	25	22	25/30					
	DD20DNV	1	19.8	67.56	23.8	42	45/45	—	30	22	25/30	—	30	22	25/30					
	DD30DNV	1	28.8	98.27	34.6	55	60/60	—	44	22	25/30	—	45	22	25/30					
DD40DNV	1	39.6	135.12	47.6	71	80/80	—	60	22	25/30	—	60	22	25/30						
S102ADH	No Heat	—	—	—	—	24	30/35	—	—	24	30/35	—	—	24	30/35					
	DD10DNV	1	9.9	33.78	11.9	30	30/35	—	15	24	30/35	—	15	24	30/35					
	DD15DNV	1	14.4	49.13	17.3	37	40/40	—	22	24	30/35	—	25	24	30/35					
	DD20DNV	1	19.8	67.56	23.8	45	45/50	—	30	24	30/35	—	30	24	30/35					
	DD30DNV	1	28.8	98.27	34.6	59	60/60	—	44	24	30/35	—	45	24	30/35					
DD40DNV	1	39.6	135.12	47.6	75	80/80	—	60	24	30/35	—	60	24	30/35						
S120ADA	No Heat	—	—	—	—	26	30/40	—	—	26	30/40	—	—	26	30/40					
	DD10DNV	1	9.9	33.78	11.9	26	30/30	—	15	26	30/40	—	15	26	30/40					
	DD15DNV	1	14.4	49.13	17.3	27	30/30	—	22	26	30/40	—	25	26	30/40					
	DD20DNV	1	19.8	67.56	23.8	35	35/35	—	30	26	30/40	—	30	26	30/40					
	DD30DNV	1	28.8	98.27	34.6	49	50/50	—	44	26	30/40	—	45	26	30/40					
DD40DNV	1	39.6	135.12	47.6	65	70/70	—	60	26	30/40	—	60	26	30/40						
S120ADB	No Heat	—	—	—	—	27	35/40	—	—	27	35/40	—	—	27	35/40					
	DD10DNV	1	9.9	33.78	11.9	27	35/40	—	15	27	35/40	—	15	27	35/40					
	DD15DNV	1	14.4	49.13	17.3	28	35/40	—	22	27	35/40	—	25	27	35/40					
	DD20DNV	1	19.8	67.56	23.8	37	40/40	—	30	27	35/40	—	30	27	35/40					
	DD30DNV	1	28.8	98.27	34.6	50	50/50	—	44	27	35/40	—	45	27	35/40					
DD40DNV	1	39.6	135.12	47.6	66	60/70	—	60	27	35/40	—	60	27	35/40						
S120ADC	No Heat	—	—	—	—	28	35/40	—	—	28	35/40	—	—	28	35/40					
	DD10DNV	1	9.9	33.78	11.9	28	35/40	—	15	28	35/40	—	15	28	35/40					
	DD15DNV	1	14.4	49.13	17.3	30	35/40	—	22	28	35/40	—	25	28	35/40					
	DD20DNV	1	19.8	67.56	23.8	38	40/40	—	30	28	35/40	—	30	28	35/40					
	DD30DNV	1	28.8	98.27	34.6	51	60/60	—	44	28	35/40	—	45	28	35/40					
DD40DNV	1	39.6	135.12	47.6	67	70/70	—	60	28	35/40	—	60	28	35/40						

\* = For Canadian use only. Uses "rp" fuses for inductive circuit.

+ = Field installed only.





### 480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit				
Unit Model No. RACDZ-	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner		
			Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size Min./Max. @ 480 V	Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Ckt. Ampacity 480 V	Over Current Protective Device Size Min./Max. @ 480 V			
S120ADF	No Heat	—	—	—	—	26	30/40	—	—	—	—	26	30/40	—
	DD10DNV	1	9.9	33.78	11.9	26	30/30	15	15	15	15	26	30/40	—
	DD15DNV	1	14.4	49.13	17.3	27	30/30	22	22	22	25	26	30/40	—
	DD20DNV	1	19.8	67.56	23.8	35	35/35	30	30	30	30	26	30/40	—
	DD30DNV	1	28.8	98.27	34.6	49	50/50	44	44	44	45	26	30/40	—
S120ADG	DD40DNV	1	39.6	135.12	47.6	65	70/70	60	60	60	60	26	30/40	—
	No Heat	—	—	—	—	27	35/40	—	—	—	—	27	35/40	—
	DD10DNV	1	9.9	33.78	11.9	27	35/40	15	15	15	15	27	35/40	—
	DD15DNV	1	14.4	49.13	17.3	28	35/40	22	22	22	25	27	35/40	—
	DD20DNV	1	19.8	67.56	23.8	37	40/40	30	30	30	30	27	35/40	—
S120ADH	DD30DNV	1	28.8	98.27	34.6	50	50/50	44	44	44	45	27	35/40	—
	DD40DNV	1	39.6	135.12	47.6	70	70/70	60	60	60	60	27	35/40	—
	No Heat	—	—	—	—	28	35/40	—	—	—	—	28	35/40	—
	DD10DNV	1	9.9	33.78	11.9	28	35/40	15	15	15	15	28	35/40	—
	DD15DNV	1	14.4	49.13	17.3	30	35/40	22	22	22	25	28	35/40	—
S150ADA	DD20DNV	1	19.8	67.56	23.8	38	40/40	30	30	30	30	28	35/40	—
	DD30DNV	1	28.8	98.27	34.6	51	60/60	44	44	44	45	28	35/40	—
	DD40DNV	1	39.6	135.12	47.6	67	70/70	60	60	60	60	28	35/40	—
	No Heat	—	—	—	—	34	40/40	—	—	—	—	34	40/40	—
	DD10DNV	1	9.9	33.78	11.9	34	40/40	15	15	15	15	34	40/40	—
S150ADB	DD15DNV	1	14.4	49.13	17.3	34	40/40	22	22	22	25	34	40/40	—
	DD20DNV	1	19.8	67.56	23.8	37	40/40	30	30	30	30	34	40/40	—
	DD30DNV	1	28.8	98.27	34.6	50	50/50	44	44	44	45	34	40/40	—
	DD40DNV	1	39.6	135.12	47.6	66	70/70	60	60	60	60	34	40/40	—
	No Heat	—	—	—	—	37	40/45	—	—	—	—	37	40/45	—
S150ADF	DD10DNV	1	9.9	33.78	11.9	37	40/45	15	15	15	15	37	40/45	—
	DD15DNV	1	14.4	49.13	17.3	37	40/45	22	22	22	25	37	40/45	—
	DD20DNV	1	19.8	67.56	23.8	40	40/45	30	30	30	30	37	40/45	—
	DD30DNV	1	28.8	98.27	34.6	54	60/60	44	44	44	45	37	40/45	—
	DD40DNV	1	39.6	135.12	47.6	70	70/70	60	60	60	60	37	40/45	—

\* = For Canadian use only. Uses "P" fuses for inductive circuit.  
+ = Field installed only.





Air

Electric Heater Kits  
RACD Series

## 480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit										
Unit Model No. RACDZ-	Heater Kit					Air Conditioner					Heater Kit					Air Conditioner				
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size @ 480 V		Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size @ 480 V		Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size @ 480 V			
S150ADG	No Heat	—	—	—	—	37	40/45	—	—	—	37	40/45	—	—	—	37	40/45	—		
	DD10DNV	1	9.9	33.78	11.9	37	40/45	—	15	15	37	40/45	—	15	15	37	40/45	—		
	DD15DNV	1	14.4	49.13	17.3	37	40/45	—	22	25	37	40/45	—	22	25	37	40/45	—		
	DD20DNV	1	19.8	67.56	23.8	40	40/45	—	30	30	37	40/45	—	30	30	37	40/45	—		
	DD30DNV	1	28.8	98.27	34.6	54	60/60	—	44	45	37	40/45	—	44	45	37	40/45	—		
T090ADF	DD40DNV	1	39.6	135.12	47.6	70	70/70	—	60	60	37	40/45	—	60	60	37	40/45	—		
	No Heat	—	—	—	—	17	20/25	—	—	—	21	20/25	—	—	—	21	20/25	—		
	DD10DNV	1	9.9	33.78	11.9	19	20/25	—	15	15	21	20/25	—	15	15	21	20/25	—		
	DD15DNV	1	14.4	49.13	17.3	26	30/30	—	22	25	21	20/25	—	22	25	21	20/25	—		
	DD20DNV	1	19.8	67.56	23.8	34	35/35	—	30	30	21	20/25	—	30	30	21	20/25	—		
T090ADG	DD30DNV	1	28.8	98.27	34.6	48	50/50	—	44	45	21	20/25	—	44	45	21	20/25	—		
	DD40DNV	1	39.6	135.12	47.6	64	70/70	—	60	60	21	20/25	—	60	60	21	20/25	—		
	No Heat	—	—	—	—	21	30/30	—	—	—	21	30/30	—	—	—	21	30/30	—		
	DD10DNV	1	9.9	33.78	11.9	27	30/30	—	15	15	21	30/30	—	15	15	21	30/30	—		
	DD15DNV	1	14.4	49.13	17.3	33	35/35	—	22	25	21	30/30	—	22	25	21	30/30	—		
T090ADH	DD20DNV	1	19.8	67.56	23.8	42	45/45	—	30	30	21	30/30	—	30	30	21	30/30	—		
	DD30DNV	1	28.8	98.27	34.6	55	60/60	—	44	45	21	30/30	—	44	45	21	30/30	—		
	DD40DNV	1	39.6	135.12	47.6	71	80/80	—	60	60	21	30/30	—	60	60	21	30/30	—		
	No Heat	—	—	—	—	21	30/30	—	—	—	21	30/30	—	—	—	21	30/30	—		
	DD10DNV	1	9.9	33.78	11.9	27	30/30	—	15	15	21	30/30	—	15	15	21	30/30	—		
T102ADF	DD15DNV	1	14.4	49.13	17.3	33	35/35	—	22	25	21	30/30	—	22	25	21	30/30	—		
	DD20DNV	1	19.8	67.56	23.8	42	45/45	—	30	30	21	30/30	—	30	30	21	30/30	—		
	DD30DNV	1	28.8	98.27	34.6	55	60/60	—	44	45	21	30/30	—	44	45	21	30/30	—		
	DD40DNV	1	39.6	135.12	47.6	71	80/80	—	60	60	21	30/30	—	60	60	21	30/30	—		
	No Heat	—	—	—	—	21	25/30	—	—	—	21	25/30	—	—	—	21	25/30	—		
T102ADG	DD10DNV	1	9.9	33.78	11.9	21	25/30	—	15	15	22	25/30	—	15	15	22	25/30	—		
	DD15DNV	1	14.4	49.13	17.3	26	30/30	—	22	25	22	25/30	—	22	25	22	25/30	—		
	DD20DNV	1	19.8	67.56	23.8	35	35/35	—	30	30	22	25/30	—	30	30	22	25/30	—		
	DD30DNV	1	28.8	98.27	34.6	48	50/50	—	44	45	22	25/30	—	44	45	22	25/30	—		
	DD40DNV	1	39.6	135.12	47.6	64	70/70	—	60	60	22	25/30	—	60	60	22	25/30	—		

\* = For Canadian use only. Uses "rp" fuses for inductive circuit.

+ = Field installed only.



**480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION****Single Power Supply For Both Unit and Heater Kit**

Unit Model No. RACDZ-	Heater Kit						Air Conditioner				Separate Power Supply For Both Unit and Heater Kit			
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size @ 480 V		Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Air Conditioner		Min. Ckt. Ampacity 480 V	Over Current Protective Device Size Min./Max. @ 480 V
							Min./Max.	Min./Max.			Min./Max.	Min./Max.		
T102ADH	No Heat	—	—	—	—	24	30/35	—	—	—	24	30/35	—	
	DD10DNV	1	9.9	33.78	11.9	24	30/35	15	15	24	24	30/35	—	
	DD15DNV	1	14.4	49.13	17.3	30	30/35	22	25	24	24	30/35	—	
	DD20DNV	1	19.8	67.56	23.8	38	40/40	30	30	24	24	30/35	—	
T120ADF	DD30DNV	1	28.8	98.27	34.6	51	60/60	44	45	24	24	30/35	—	
	DD40DNV	1	39.6	135.12	47.6	67	70/70	60	60	24	24	30/35	—	
	No Heat	—	—	—	—	26	30/40	—	—	26	26	30/40	—	
	DD10DNV	1	9.9	33.78	11.9	26	30/30	15	15	26	26	30/40	—	
T120ADG	DD15DNV	1	14.4	49.13	17.3	27	30/30	22	25	26	26	30/40	—	
	DD20DNV	1	19.8	67.56	23.8	35	35/35	30	30	26	26	30/40	—	
	DD30DNV	1	28.8	98.27	34.6	49	50/50	44	45	26	26	30/40	—	
	DD40DNV	1	39.6	135.12	47.6	65	70/70	60	60	26	26	30/40	—	
T120ADH	No Heat	—	—	—	—	27	35/40	—	—	—	27	35/40	—	
	DD10DNV	1	9.9	33.78	11.9	27	35/40	15	15	27	27	35/40	—	
	DD15DNV	1	14.4	49.13	17.3	28	35/40	22	25	27	27	35/40	—	
	DD20DNV	1	19.8	67.56	23.8	37	40/40	30	30	27	27	35/40	—	
T150ADF	DD30DNV	1	28.8	98.27	34.6	50	50/50	44	45	25	25	35/40	—	
	DD40DNV	1	39.6	135.12	47.6	70	70/70	60	60	25	25	35/40	—	
	No Heat	—	—	—	—	28	35/40	—	—	—	25	35/40	—	
	DD10DNV	1	9.9	33.78	11.9	28	35/40	15	15	25	25	35/40	—	
T150ADG	DD15DNV	1	14.4	49.13	17.3	30	35/40	22	25	25	25	35/40	—	
	DD20DNV	1	19.8	67.56	23.8	38	40/40	30	30	25	25	35/40	—	
	DD30DNV	1	28.8	98.27	34.6	51	60/60	44	45	25	25	35/40	—	
	DD40DNV	1	39.6	135.12	47.6	67	70/70	60	60	25	25	35/40	—	
T150ADH	No Heat	—	—	—	—	34	40/40	—	—	—	35	40/40	—	
	DD10DNV	1	9.9	33.78	11.9	34	40/40	15	15	35	35	40/40	—	
	DD15DNV	1	14.4	49.13	17.3	34	40/40	22	25	35	35	40/40	—	
	DD20DNV	1	19.8	67.56	23.8	37	40/40	30	30	35	35	40/40	—	
T150ADG	DD30DNV	1	28.8	98.27	34.6	50	50/50	44	45	35	35	40/40	—	
	DD40DNV	1	39.6	135.12	47.6	66	70/70	60	60	35	35	40/40	—	
	No Heat	—	—	—	—	37	40/45	—	—	—	37	40/45	—	
	DD10DNV	1	9.9	33.78	11.9	37	40/45	15	15	37	37	40/45	—	
T150ADH	DD15DNV	1	14.4	49.13	17.3	37	40/45	22	25	37	37	40/45	—	
	DD20DNV	1	19.8	67.56	23.8	40	40/45	30	30	37	37	40/45	—	
	DD30DNV	1	28.8	98.27	34.6	54	60/60	44	45	37	37	40/45	—	
	DD40DNV	1	39.6	135.12	47.6	70	70/70	60	60	37	37	40/45	—	

\* = For Canadian use only. Uses "pr" fuses for inductive circuit.  
+ = Field installed only.

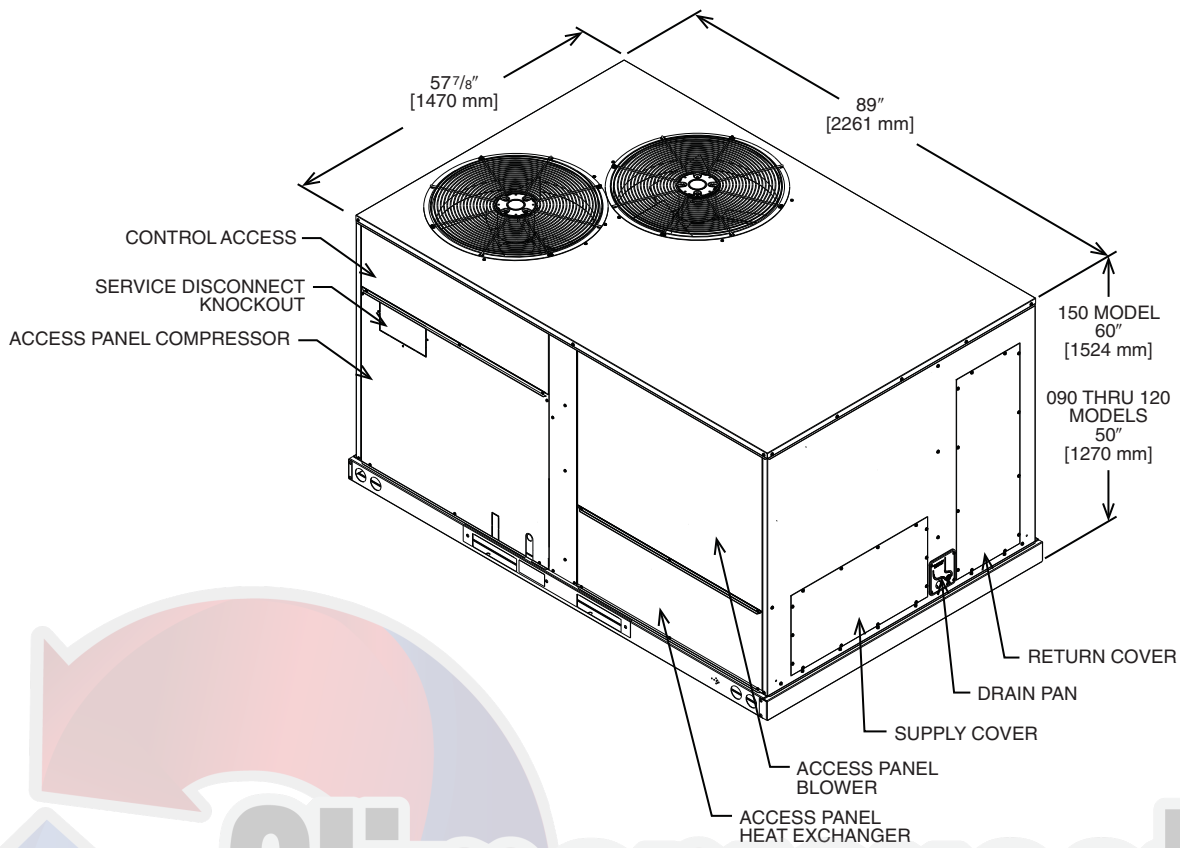


Illustration  
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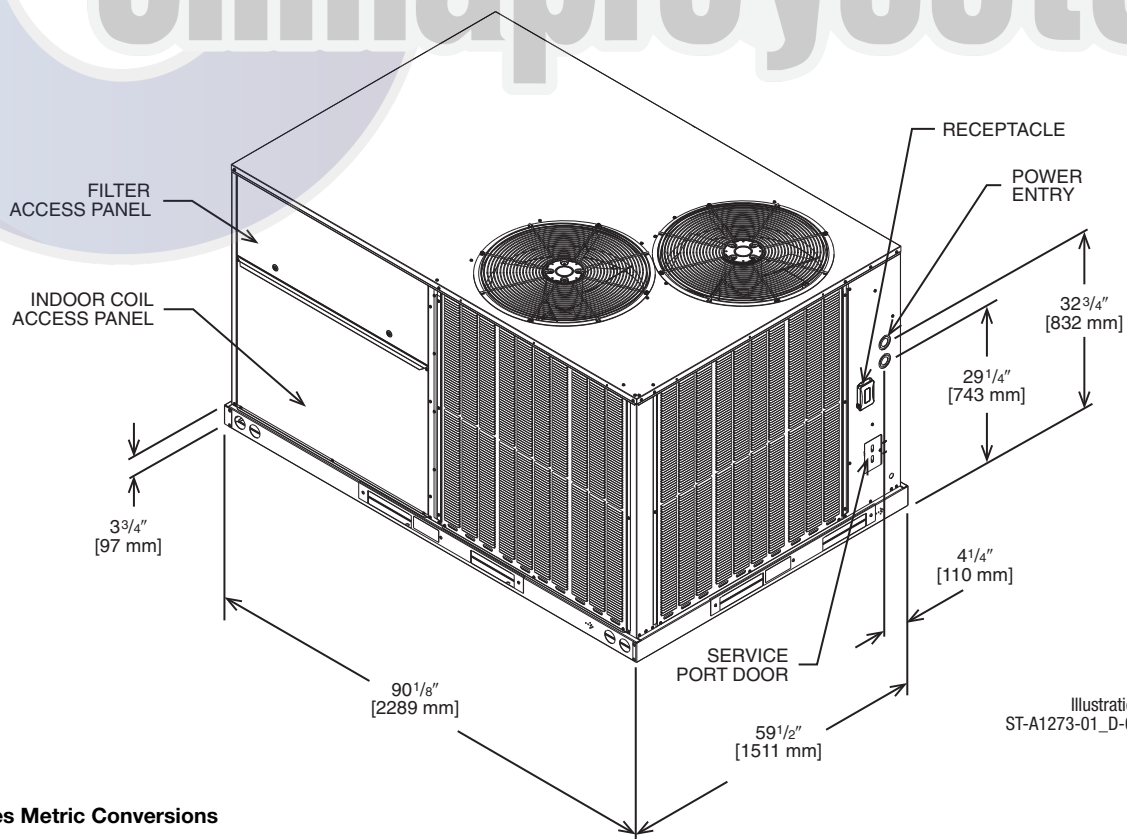
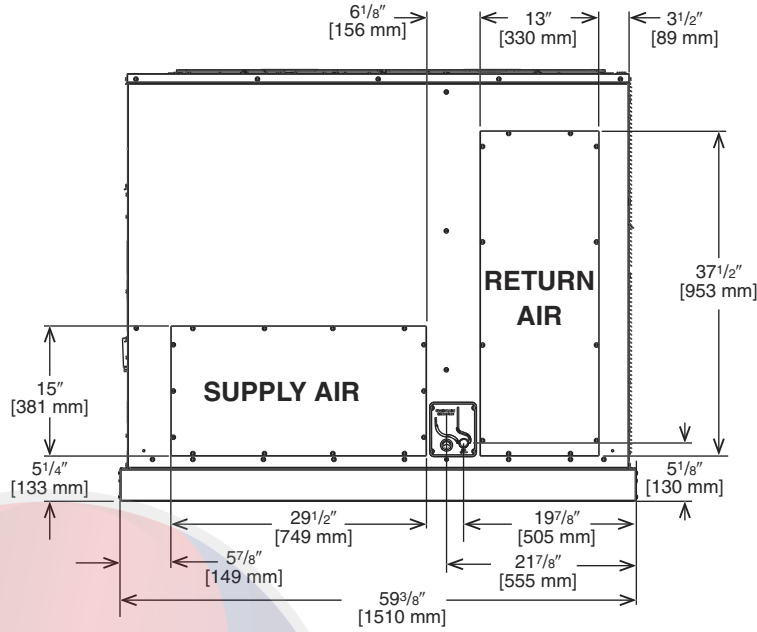


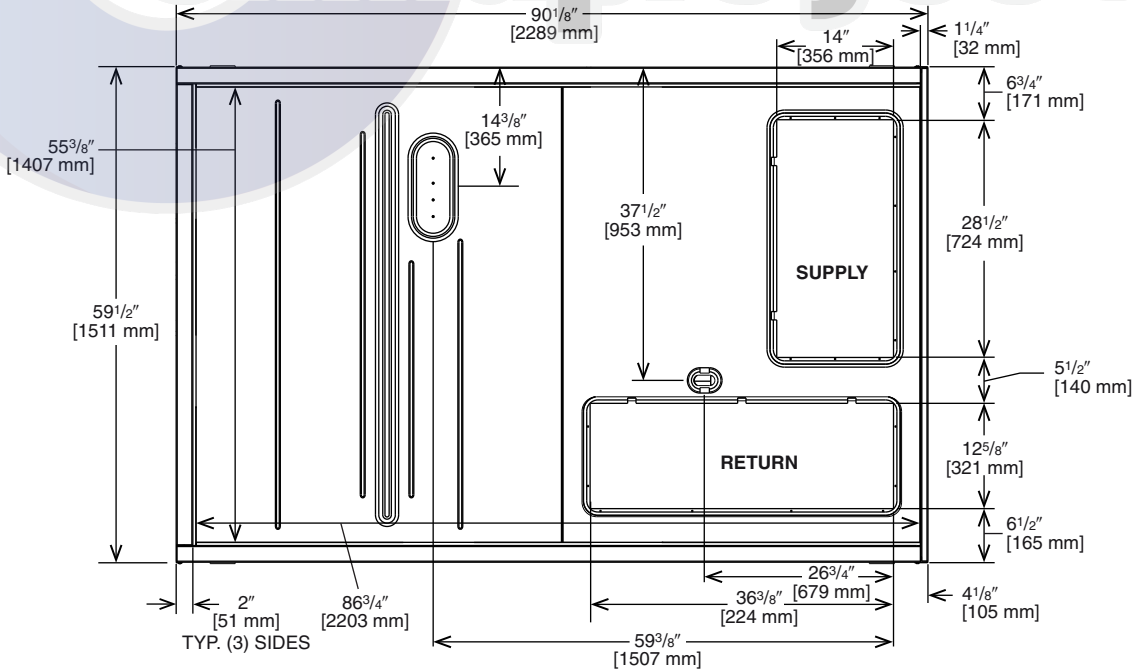
Illustration  
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[ ] Designates Metric Conversions

**SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS**



**SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS**



[ ] Designates Metric Conversions



## WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

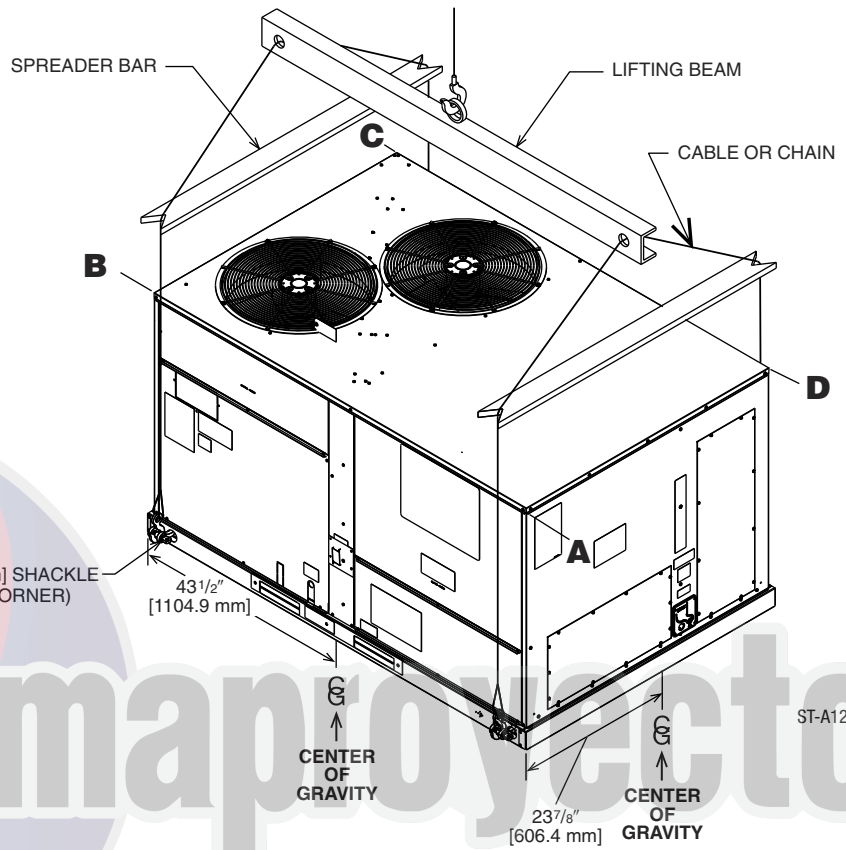


Illustration  
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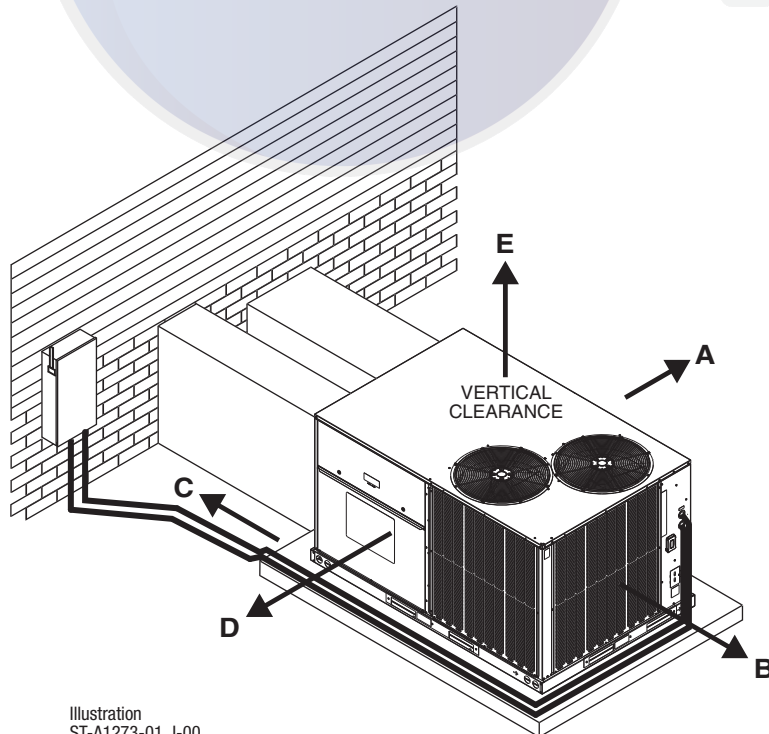


Illustration  
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### CLEARANCES

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

RECOMMENDED CLEARANCE In. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.

② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.



## FIELD INSTALLED ACCESSORY EQUIPMENT (cont'd.)

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Economizer w/Single Enthalpy (Downflow)	RXRD-01MDDAM3	86 [39.0]	57 [25.9]	Yes
Economizer w/Single Enthalpy (Horizontal)	RXRD-01MDHAM3	84 [38.1]	55 [24.9]	Yes
Economizer-w/Single Enthalpy (Downflow) DDC	RXRD-01MDDBM3	86 [39.0]	57 [25.9]	No
Economizer w/Single Enthalpy (Horizontal) DDC	RXRD-01MDHBM3	84 [38.1]	55 [24.9]	No
Dual Enthalpy Kit	RXRX-BV01	1 [.5]	1 [.5]	No
Dual Enthalpy Kit DDC	RXRX-BV02	1 [.5]	1 [.5]	No
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-CDF01C	58 [26.3]	48 [21.8]	No
Power Exhaust	RXRX-CDF01D	50 [22.7]	44 [20.0]	No
Manual Fresh Air Damper	RXRF-ADA1	15 [6.8]	12 [5.4]	No
Motorized Fresh Air Damper	RXRF-ADB1	38 [17.2]	31 [14.06]	No
Motorized Fresh Air Damper (DDC)	RXRF-ADC1	38 [17.2]	31 [14.06]	No
Roofcurb, 14"	RXKG-DDD14	109 [49.4]	104 [47.2]	No
Roofcurb, 24"	RXKG-DDD24	145 [65.8]	140 [63.5]	No
Roofcurb Adapter	RXRX-DDCAE	235 [106.6]	215 [97.5]	No
Concentric Diffuser 7.5/8.5 Ton Flush	RXRN-AEF2000	235 [106.6]	215 [97.5]	No
Concentric Diffuser 10.0 Ton Flush	RXRN-AEF3415	30 [13.6]	25 [11.3]	No
Concentric Diffuser 12.5 Ton Flush	RXRN-AEF3618	250 [113.4]	130 [59]	No
Concentric Diffuser 7.5/8.5 Ton Drop	RXRN-AED2000	275 [124.7]	170 [77.1]	No
Concentric Diffuser 10.0 Ton Drop	RXRN-AED3415	35 [15.9]	30 [13.6]	No
Concentric Diffuser 12.5 Ton Drop	RXRN-AED3618	270 [122.5]	160 [72.6]	No
Concentric Adapter 7.5/8.5 Ton Drop	RXMC-DD01	300 [136.1]	180 [81.6]	No
Concentric Adapter 10 Ton Drop	RXMC-DD02	25 [11.3]	20 [9.1]	No
Concentric Adapter 12.5 Ton Drop	RXMC-DD03	75 [34]	65 [29.5]	No
Outdoor Coil Louver Kit - ACD/090/102/120	RXRX-ADD04A	52 [23.6]	47 [21.3]	Yes
Outdoor Coil Louver Kit - ACD150	RXRX-ADD04B	43 [19.5]	39 [17.7]	Yes
Unwired Convenience Outlet	RXRX-BN01	2 [1.0]	1.5 [.7]	Yes
Unfused Service Disconnect	RXRX-BP01	10 [4.5]	9 [4.1]	Yes
Comfort Alert (1 Per Compressor)	RXRX-AZ01 DDC	3 [1.5]	2 [0.9]	Yes
Comfort Alert (1 Per Compressor)	RXRX-AZ02	3 [1.5]	2 [0.9]	Yes
BACnet Communication Card	RXRX-AY01	1 [0.5]	1 [0.5]	No
LonWorks Communication Card	RXRX-AY02	1 [0.5]	1 [0.5]	No
Room Humidity Sensor	RHC-ZNS4	1 [0.5]	1 [0.5]	No
Room Temperature and Relative Humidity Sensor	RHC-ZNS5	1 [0.5]	1 [0.5]	No
Low-Ambient Control Kit	RXRZ-A04	4 [1.8]	3 [1.4]	Yes
Freeze Stat Kit	RXRX-AM01	2 [1.0]	1.5 [.7]	Yes

[ ] Designates Metric Conversions



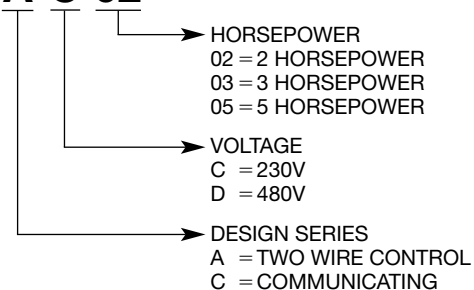
## FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Variable Frequency Drive Kit	RXXR-AC02	9.1 [4.1]	7.6 [3.4]	No
	RXXR-AC03	11.7 [5.3]	10.2 [4.6]	No
	RXXR-AC05	11.7 [5.3]	10.2 [4.6]	No
	RXXR-AD02	9.4 [4.3]	7.9 [3.6]	No
	RXXR-AD03	12.3 [5.6]	10.8 [4.9]	No
	RXXR-AD05	12.3 [5.6]	10.8 [4.9]	No
	RXXR-CC02	9.1 [4.1]	7.6 [3.4]	No
	RXXR-CC03	11.7 [5.3]	10.2 [4.6]	No
	RXXR-CC05	11.7 [5.3]	10.2 [4.6]	No
	RXXR-CD02	9.4 [4.3]	7.9 [3.6]	No
	RXXR-CD03	12.3 [5.6]	10.8 [4.9]	No
	RXXR-CD05	12.3 [5.6]	10.8 [4.9]	No
Electric Heater Kits	RXJJ-DD10CP	30 [13.6]	27.5 [12.5]	Yes
	RXJJ-DD15CP	32 [14.5]	29.5 [13.4]	Yes
	RXJJ-DD20CP	34 [15.4]	31.5 [14.3]	Yes
	RXJJ-DD30CP	37 [16.8]	34.5 [15.6]	Yes
	RXJJ-DD40CP	40 [18.1]	37.5 [17]	Yes
	RXJJ-DD10DNV	30 [13.6]	27.5 [12.5]	Yes
	RXJJ-DD15DNV	32 [14.5]	29.5 [13.4]	Yes
	RXJJ-DD20DNV	34 [15.4]	31.5 [14.3]	Yes
	RXJJ-DD30DNV	37 [16.8]	34.5 [15.6]	Yes
	RXJJ-DD40DNV	40 [18.1]	37.5 [17]	Yes
Single Point Wiring Kit	RXJX-AC0605	23 [10.4]	25 [11.3]	No
	RXJX-AC0805	24 [10.9]	26 [11.8]	No
	RXJX-AD0605	25 [11.3]	27 [12.2]	No
	RXJX-AC0909	26 [11.8]	28 [12.7]	No
	RXJX-AD0609	25 [11.3]	27 [12.2]	No

[ ] Designates Metric Conversions

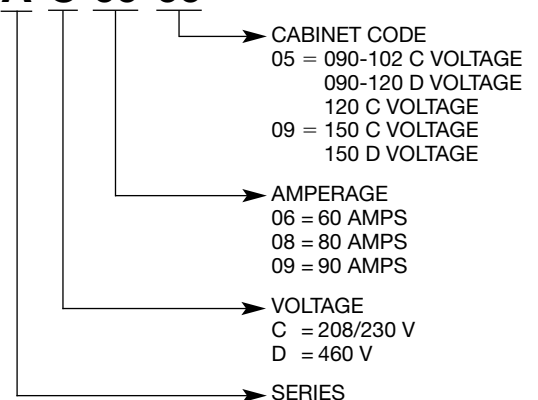
### VARIABLE FREQUENCY DRIVE KIT

#### RXXR – A C 02



### SINGLE POINT WIRING KIT

#### RXJX – A C 09 09



## FLUSH MOUNT ROOM TEMPERATURE SENSORS FOR NETWORKED DDC APPLICATIONS



### ROOM TEMPERATURE SENSOR ZNS-101 with TIMED OVERRIDE BUTTON

10k $\Omega$  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.



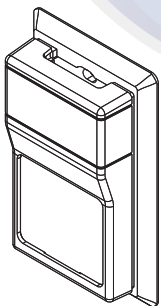
### ROOM TEMPERATURE SENSOR ZNS-102 with TIMED OVERRIDE BUTTON and STATUS INDICATOR

10k $\Omega$  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

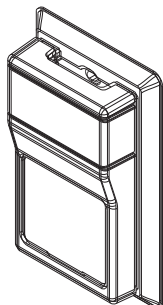
10k $\Omega$  room temperature sensor with setpoint adjustment transmits room temperature to DDC system along with desired occupied room temperature setpoint. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



### 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    RXXR-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    RXXR-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.



# NON-DDC ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

## Use to Select Factory Installed Options Only

**RXRD-01MDDAM3—Single Enthalpy (Outdoor) and AXRD-SJCM3**

**Single Enthalpy with Smoke Detector**

**RRX-BV02—Dual Enthalpy Upgrade Kit**

**RRX-AR02—Optional Wall-Mounted CO<sub>2</sub> Sensor**

- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock.
- Field Installed Power Exhaust Available
- Prewired for Smoke Detector
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen

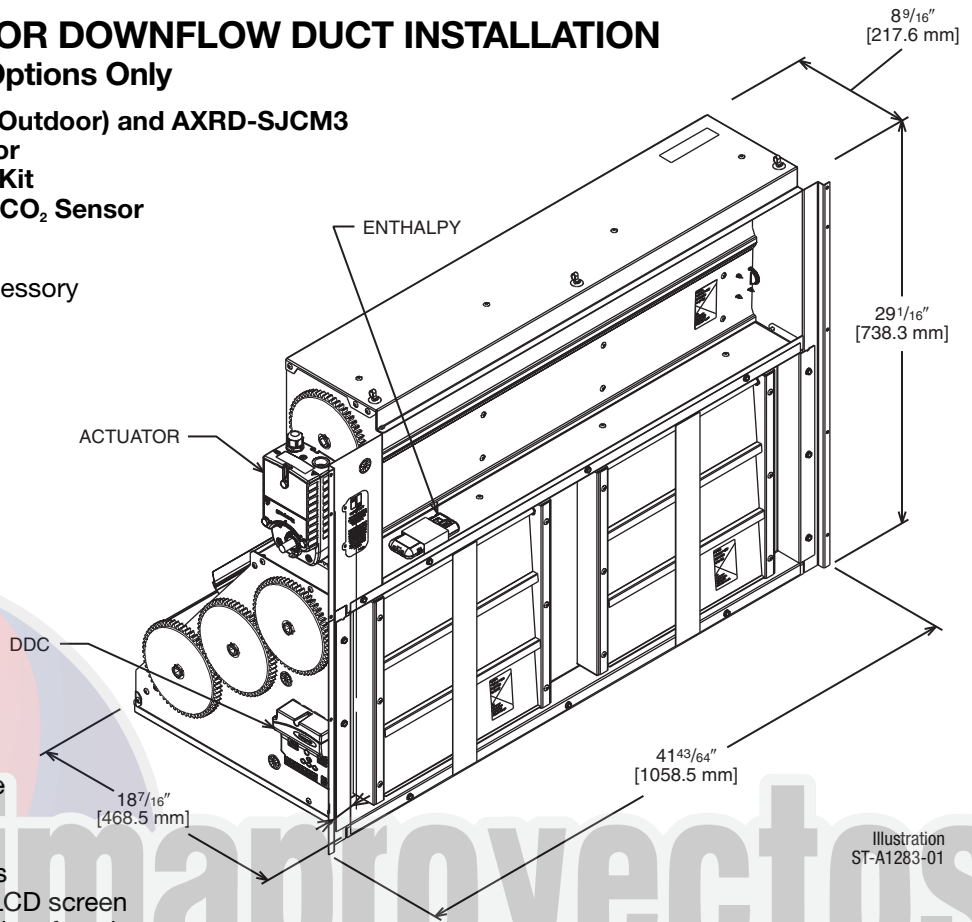


Illustration  
ST-A1283-01

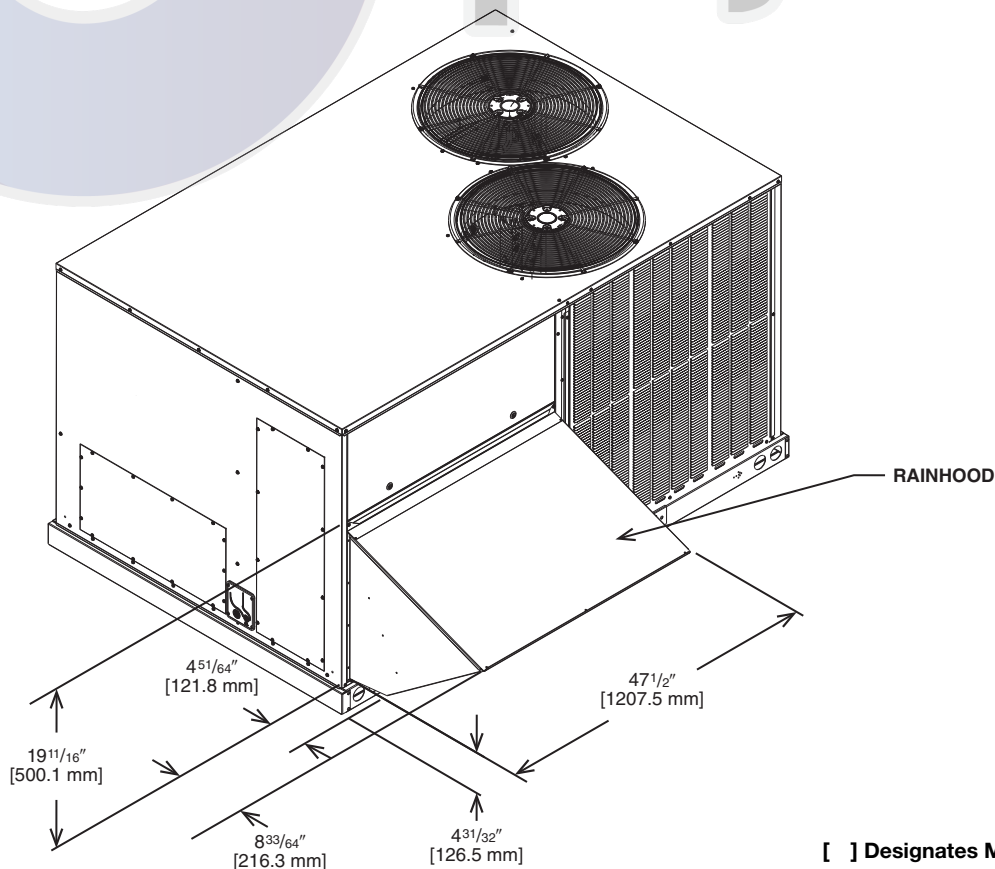


Illustration  
ST-A1273-01\_G-00

[ ] Designates Metric Conversions

# NON-DDC ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

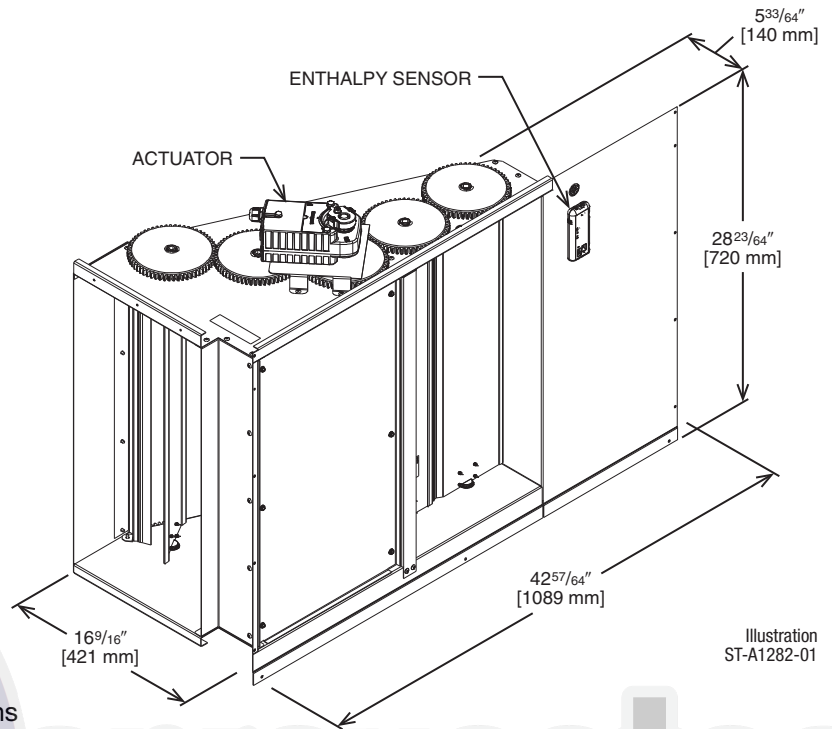
## Field Installed Only

**RXRD-01DAH3—Single Enthalpy (Outdoor)**

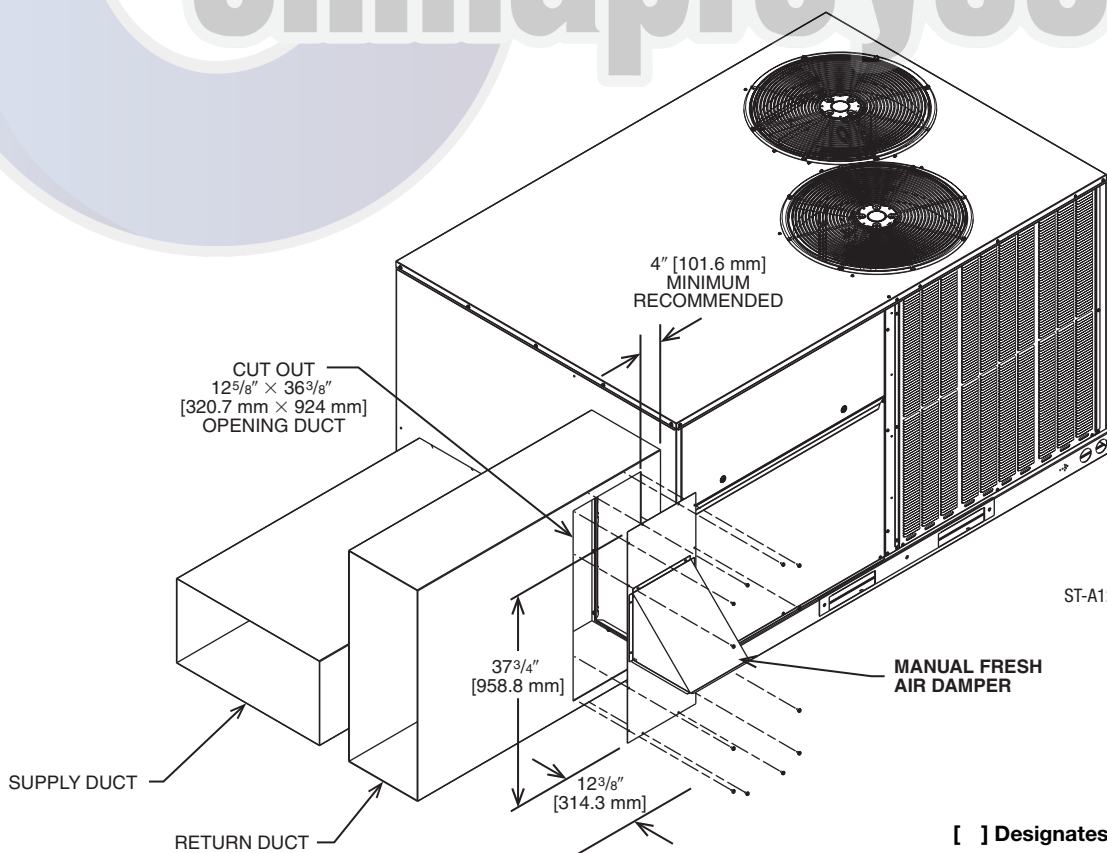
**RXXR-BV01—Dual Enthalpy Upgrade Kit**

**RXXR-AR02—Wall-mounted CO<sub>2</sub> Sensor**

- Features **Honeywell** Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



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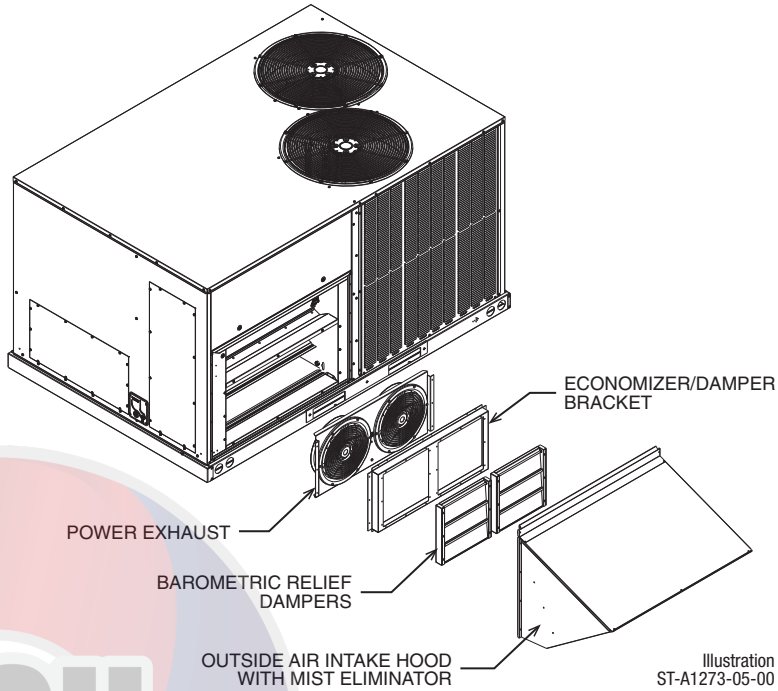
[ ] Designates Metric Conversions

# POWER EXHAUST KIT FOR RXRD-01MDDAM3, RXRD-01MDDBM3, RXRD-01MDHAM3, RXRD-01MDHBM3 ECONOMIZERS

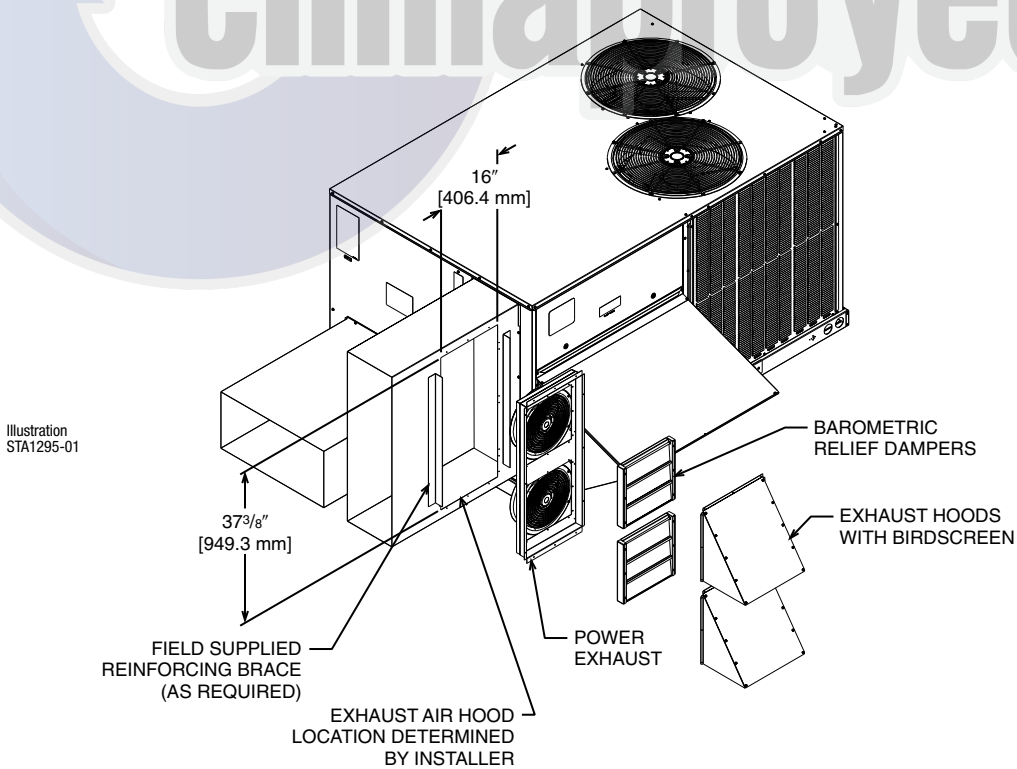
RXRX-CDF01

\*Voltage Code

## VERTICAL AIRFLOW



## HORIZONTAL AIRFLOW



Model No.	No. of Fans	Volts	Phase	HP (ea.)	CFM [L/s]*	RPM	FLA (ea.)	LRA (ea.)
RXRX-CDF01C	2	208-230	1	0.47	2200	3000	1.55	1.1
RXRX-CDF01D	2	460	3	0.40	1970	2750	0.51	1.9

\*CFM is per fan at 0" w.c. external static pressure.

[ ] Designates Metric Conversions



## DDC—ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

### Use to Select Field Installed Options Only

**RXRD-01MDDBM3—Single Enthalpy (Outdoor)**  
**RXXR-BV02—Dual Enthalpy Upgrade Kit**  
**RXXR-AR02—Optional Wall-Mounted CO<sub>2</sub> Sensor**

- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock.
- Field Installed Power Exhaust Available
- Prewired for Smoke Detector
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS), or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen

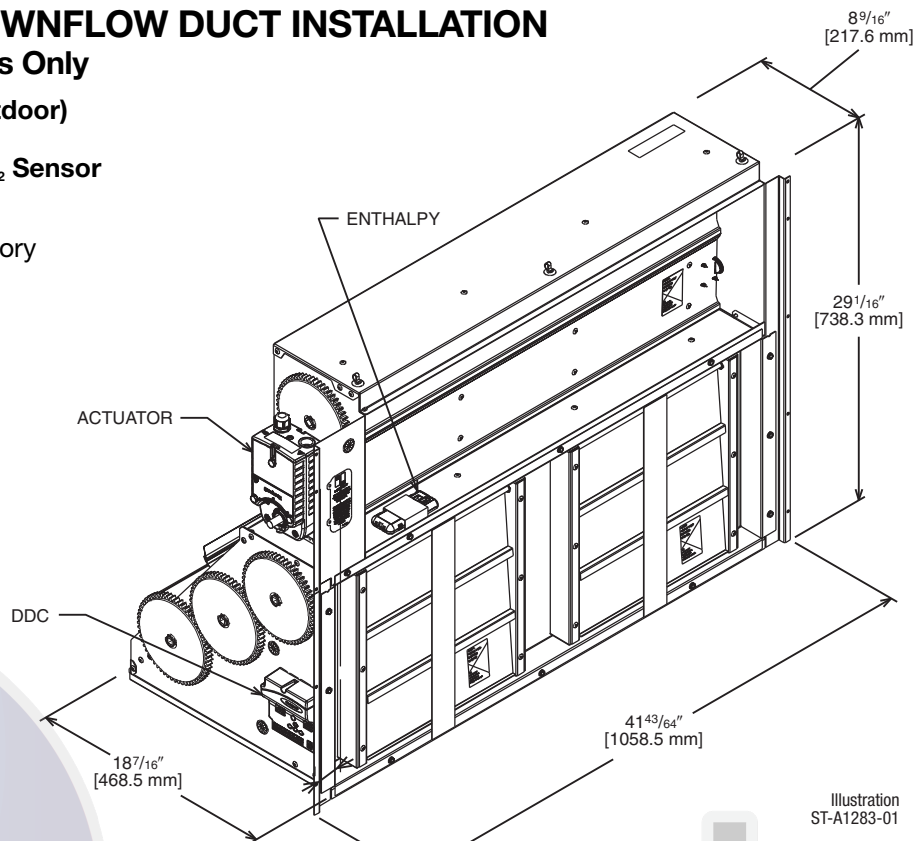


Illustration  
ST-A1283-01

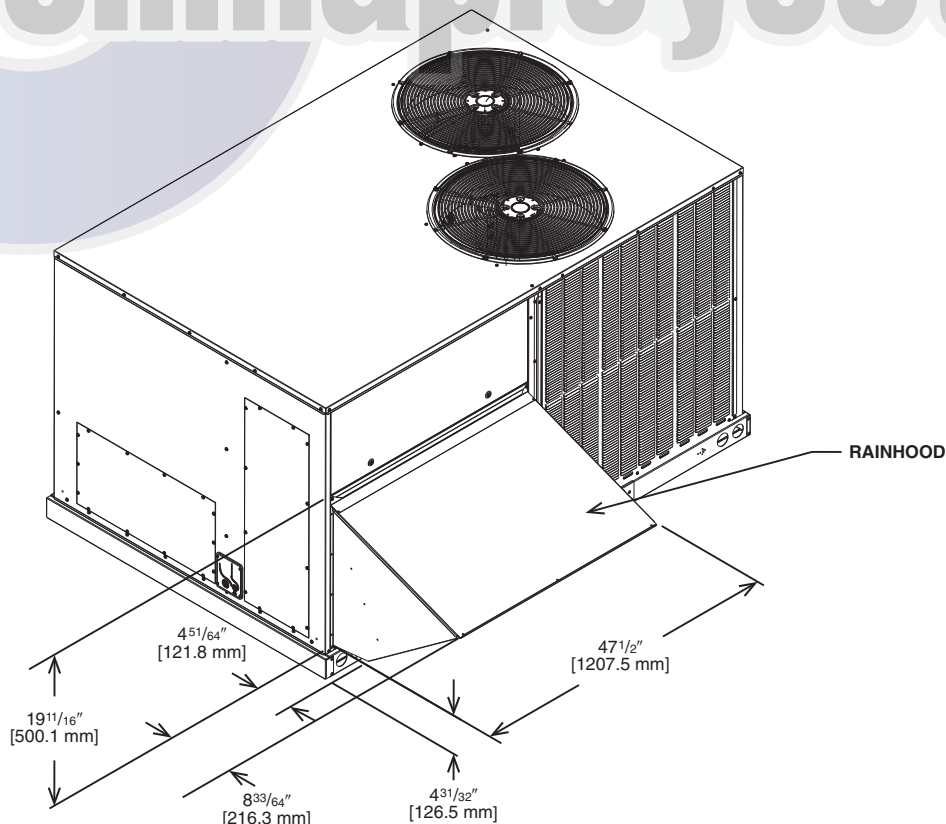


Illustration  
ST-A1273-01\_G-00

[ ] Designates Metric Conversions



## DDC—ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

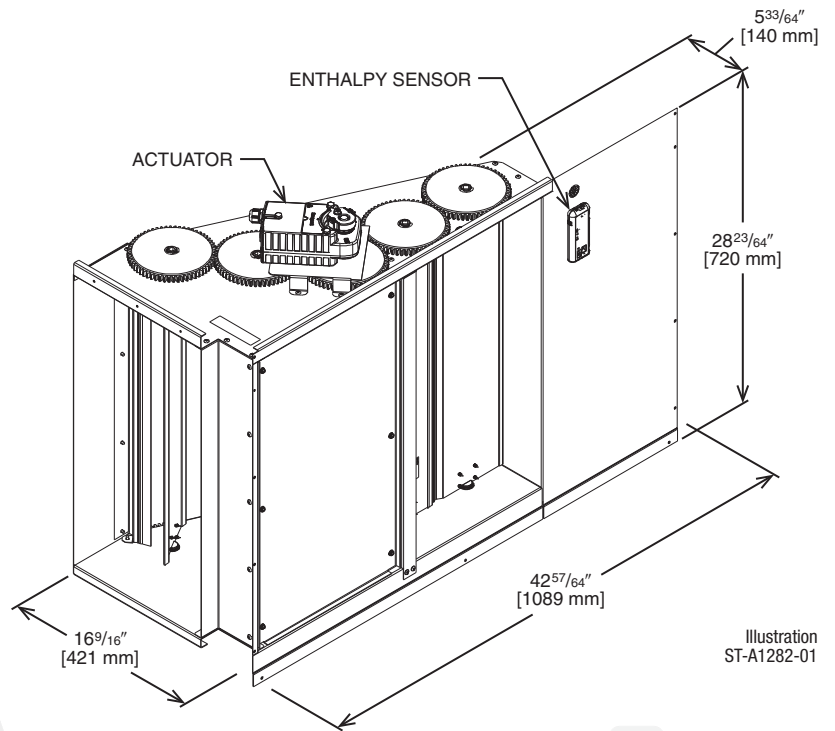
### Field Installed Only

RXRD-01MDHBM3—Single Enthalpy (Outdoor)

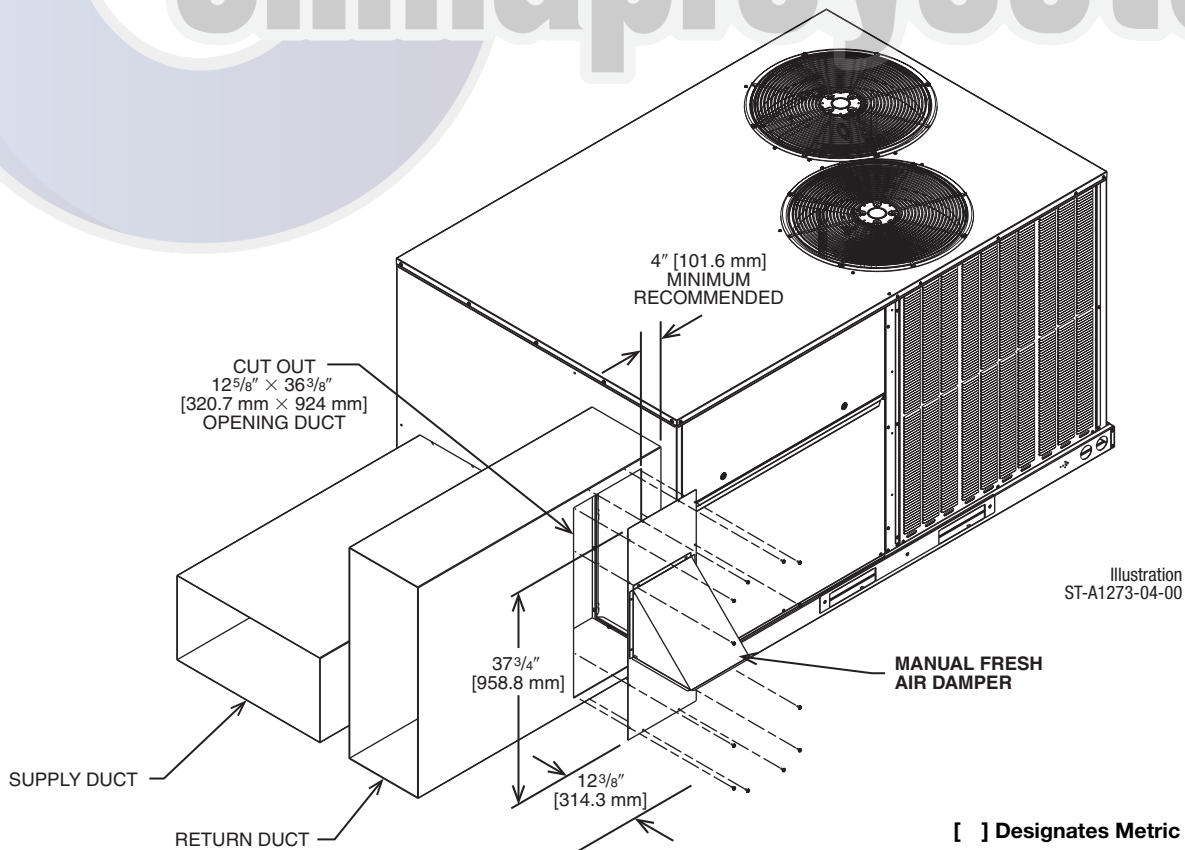
RXRX-BV02—Dual Enthalpy Upgrade Kit

RXRX-AR02—Wall-mounted CO<sub>2</sub> Sensor

- Features **Honeywell** Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS), or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



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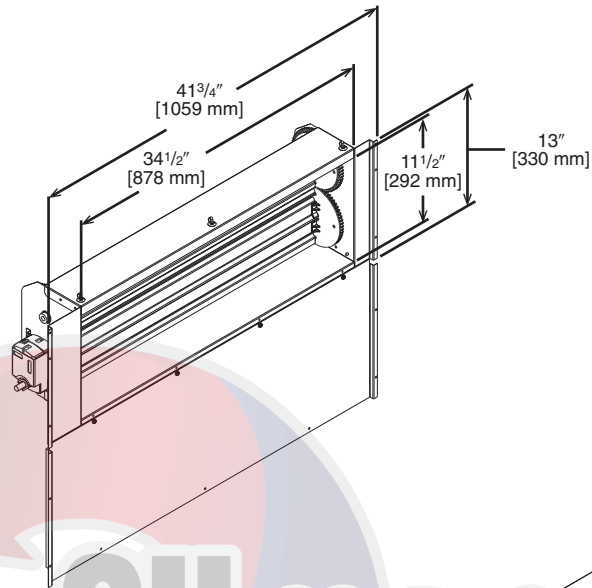


[ ] Designates Metric Conversions



## FRESH AIR DAMPER

### MOTORIZED DAMPER KIT RXRF-ADB1


 Illustration  
 ST-A1273-10-00

[ ] Designates Metric Conversions

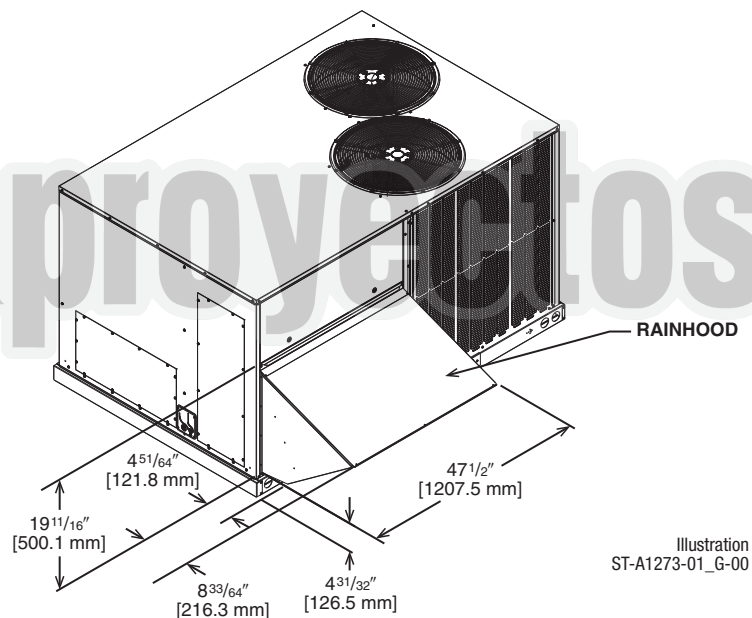
### MOTORIZED DAMPER KIT RXRX-ADC1 (Motor Kit for DDC Models)

#### RXRX-AW04

#### (Modulating Motor Kit w/position feedback for AXRF-KDA1)

- Features **Honeywell** Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Addition of Dual Enthalpy Upgrade Kit allows limited economizer function
- CO<sub>2</sub> Sensor Input Available for Demand Control Ventilation (DCV)
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is available from Prostock
- All fresh air damper functions can be viewed at the RTU-C unit controller display
- If connected to a Building Automation System (BAS), all fresh air damper functions can be viewed on the (BAS)

[ ] Designates Metric Conversions


 Illustration  
 ST-A1273-01\_G-00



# FRESH AIR DAMPER (Cont.)

RXRF-ADA1

## DOWNFLOW APPLICATION

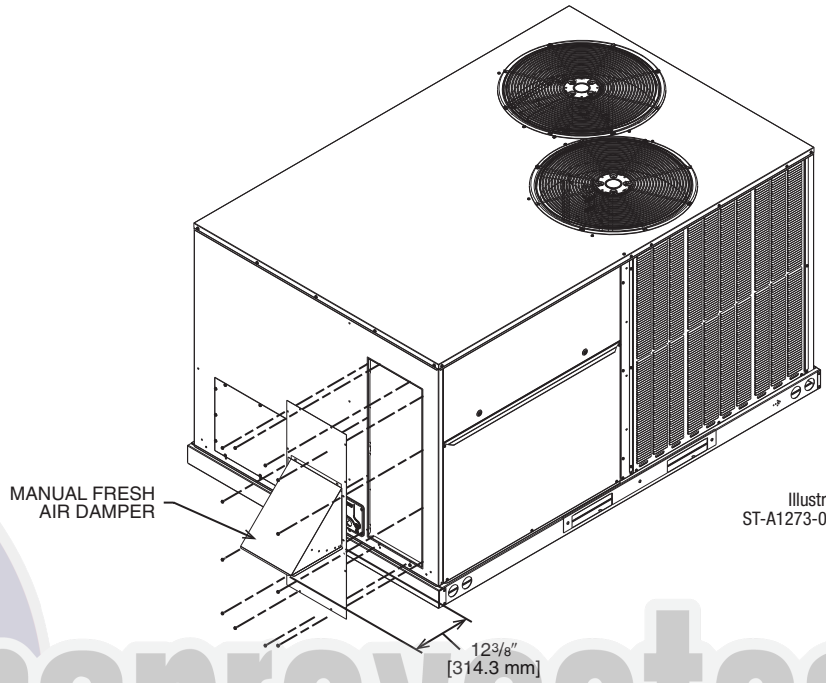


Illustration  
ST-A1273-03-00

## HORIZONTAL APPLICATION

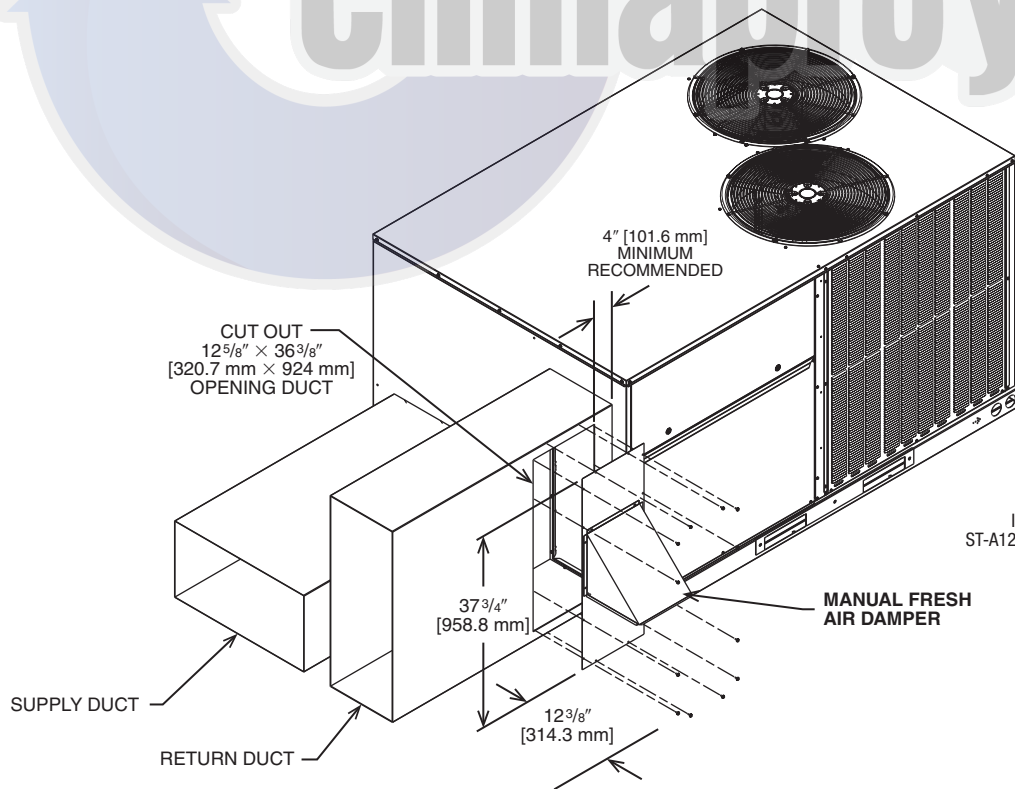


Illustration  
ST-A1273-04-00

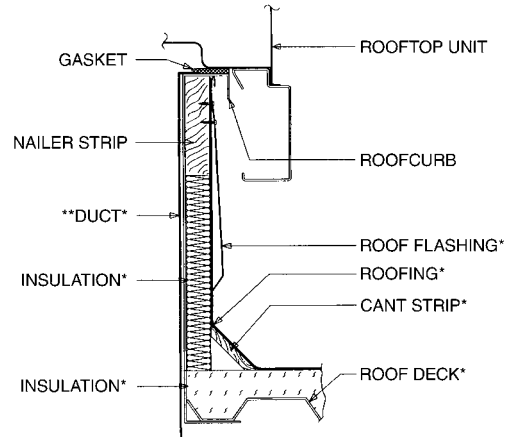
[ ] Designates Metric Conversions



## ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on all 7.5-12.5 ton [26.4-44.0 kW] RACD.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening provided on the unit base pan.
- 1" [25 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (40' [12.2 m]) provided with Roofcurb.
- Packaged for easy field assembly.

Roofcurb Model	Height of Curb
RXKG-DDD14	14" [356 mm]
RXKG-DDD24	24" [610 mm]



\*BY CONTRACTOR

\*\*FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

Illustration  
ST-A0743-02

## ROOFCURB INSTALLATION

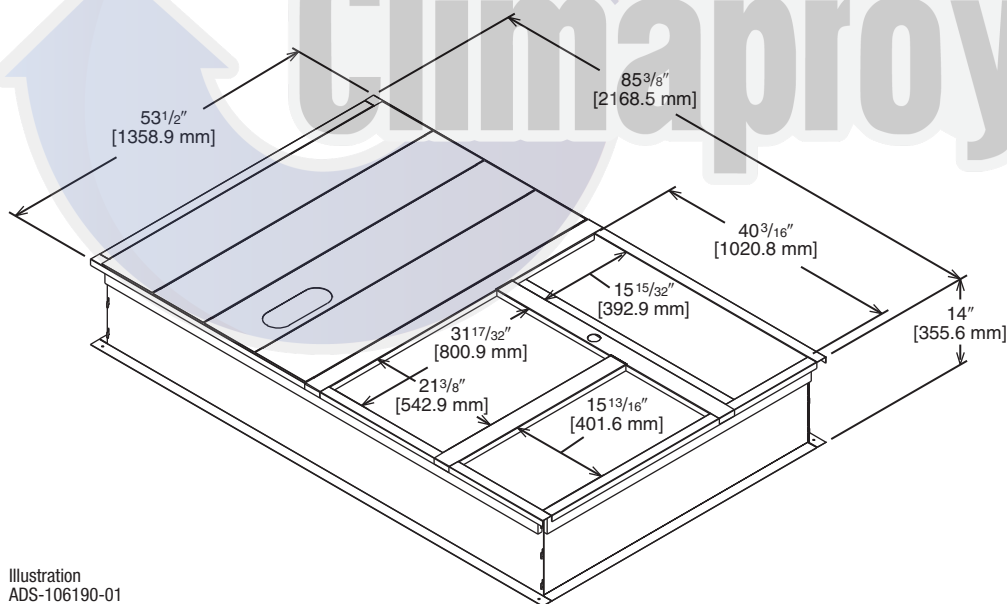


Illustration  
ADS-106190-01

[ ] Designates Metric Conversions

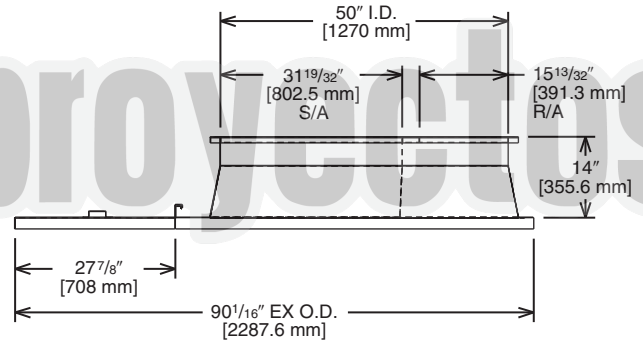
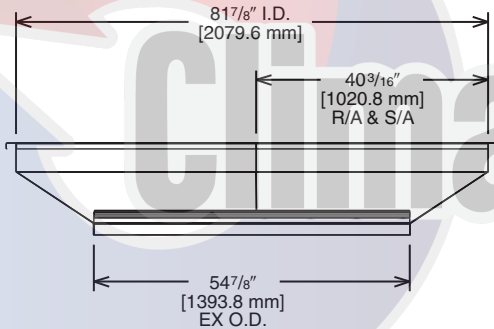
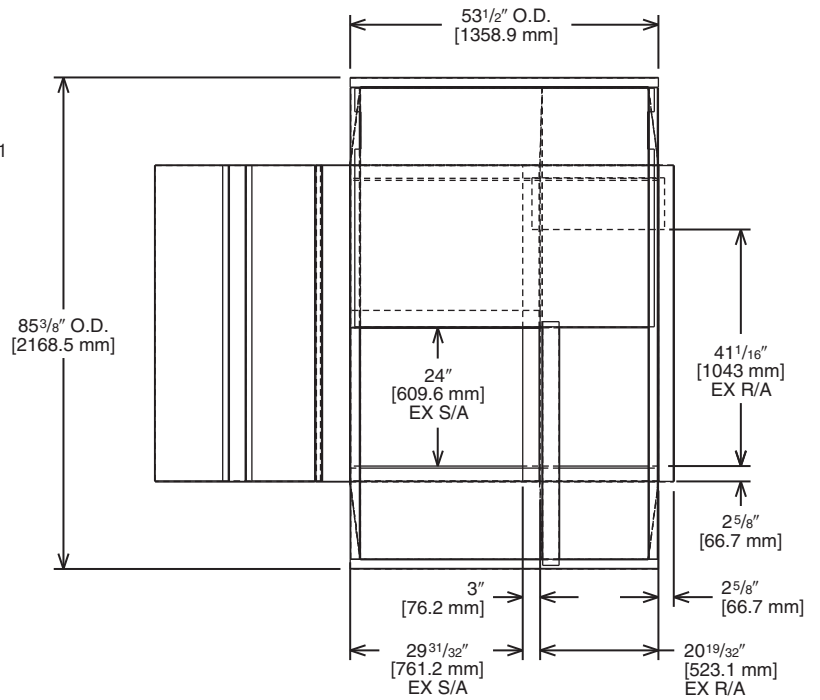
# ROOFCURB ADAPTERS (Cont.)

RXXR-DDCAE

Illustration  
ADS-106176-01  
SHEET 2

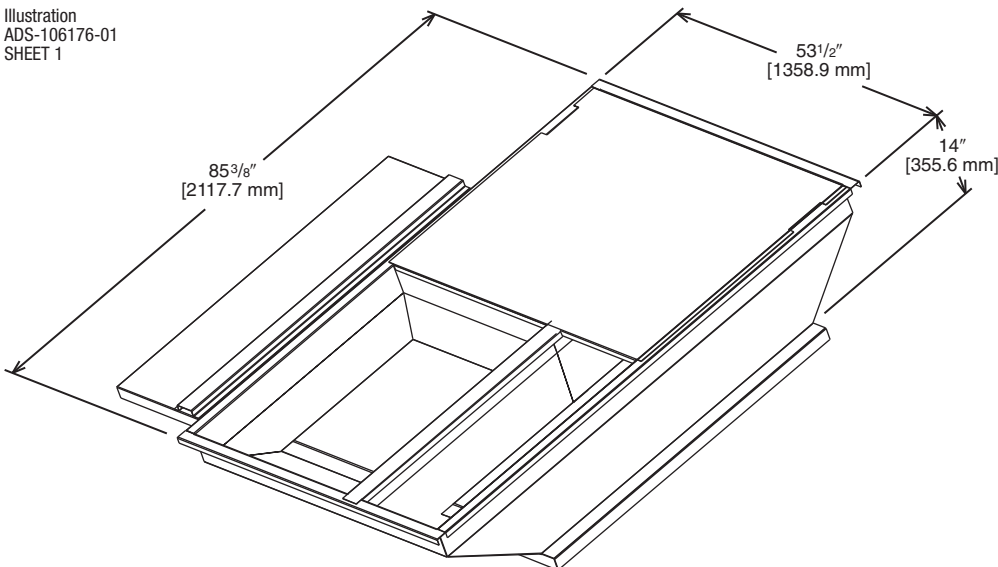
## APPROXIMATE STATIC PRESSURE DROP

@2,000 = 0.06" w.g.
@3,000 = 0.12" w.g.
@4,000 = 0.22" w.g.
@5,000 = 0.36" w.g.



## TOP VIEW

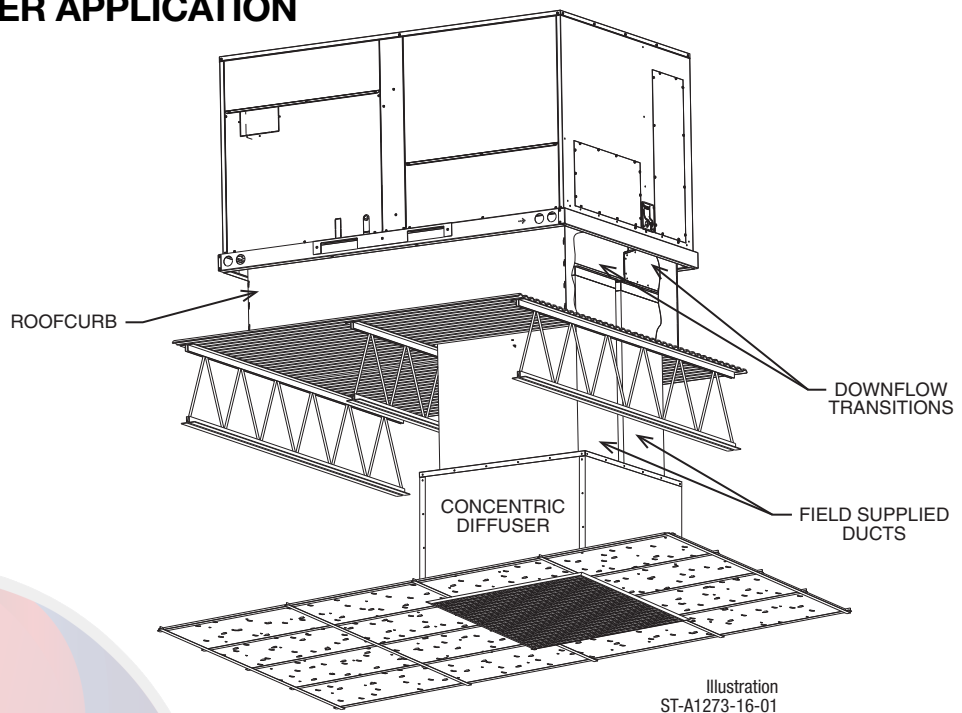
Illustration  
ADS-106176-01  
SHEET 1



[ ] Designates Metric Conversions



# CONCENTRIC DIFFUSER APPLICATION



## DOWNFLOW TRANSITION DRAWINGS

### RXMC-DD02

- Used with RXRN-AEF3415 or RXRN-AED3415 Concentric Diffusers.

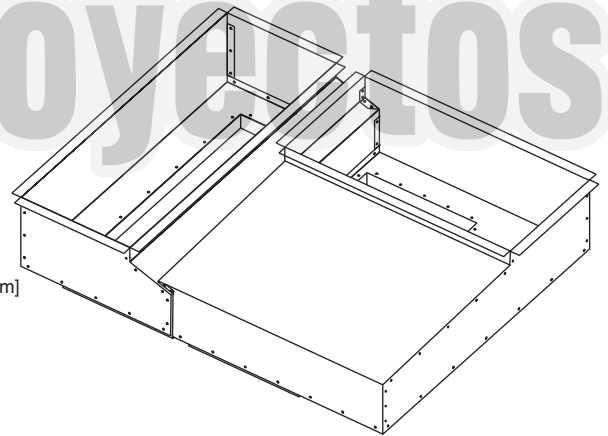
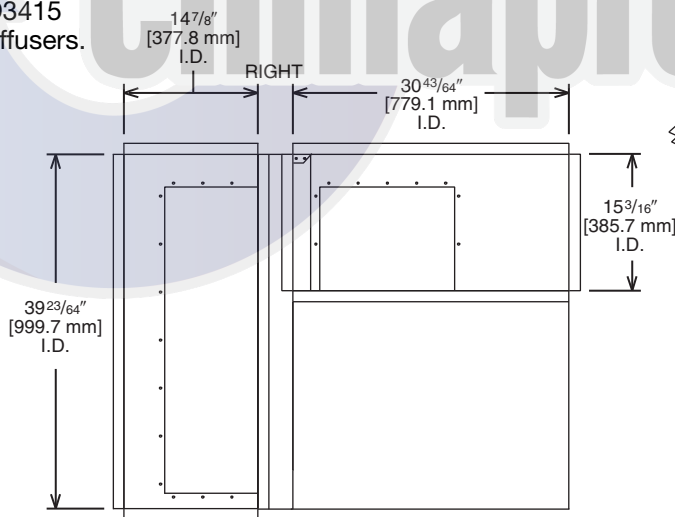
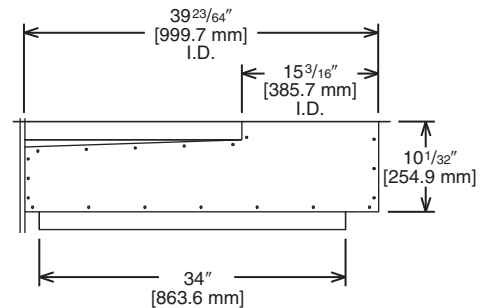
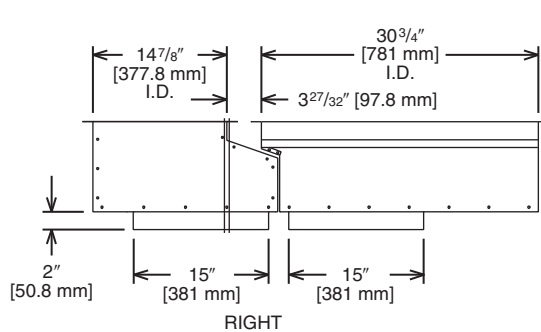


Illustration  
ADS-106193-02



[ ] Designates Metric Conversions



## DOWNFLOW TRANSITION DRAWINGS (Cont.)

### RXMC-DD03

- Used with RXRN-AEF3618  
or RXRN-AED3618  
Concentric Diffusers.

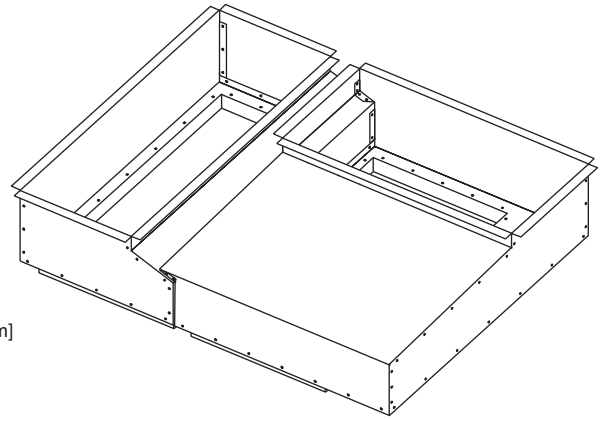
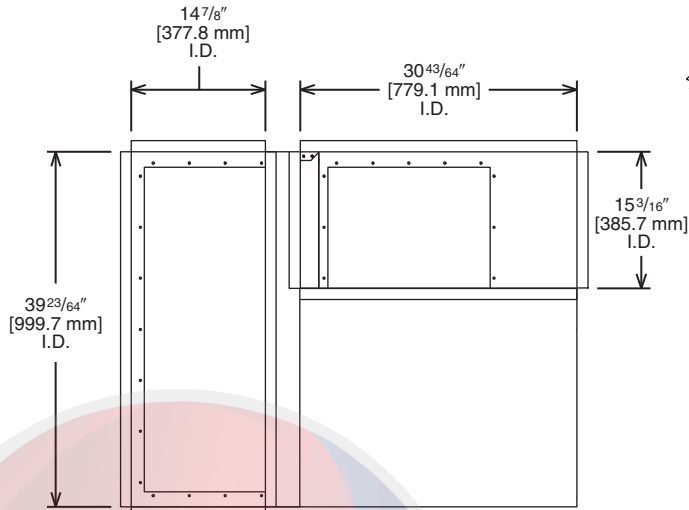
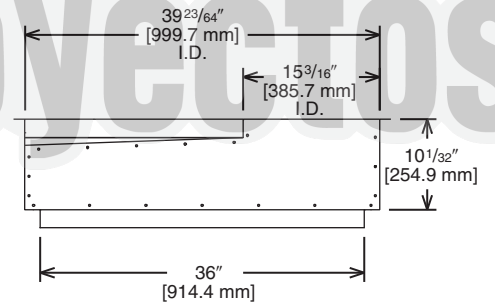
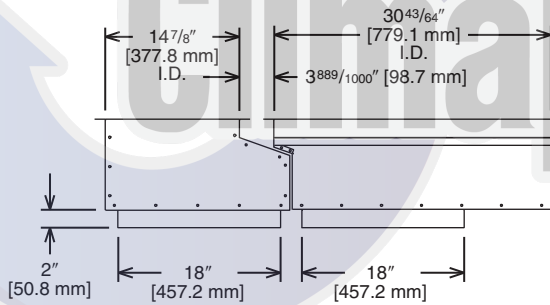


Illustration  
ADS-106193-03



[ ] Designates Metric Conversions



## DOWNFLOW TRANSITION DRAWINGS (Cont.)

### RXMC-DD01

- Used with RXRN-AEF2000  
or RXRN-AED2000  
Concentric Diffusers.

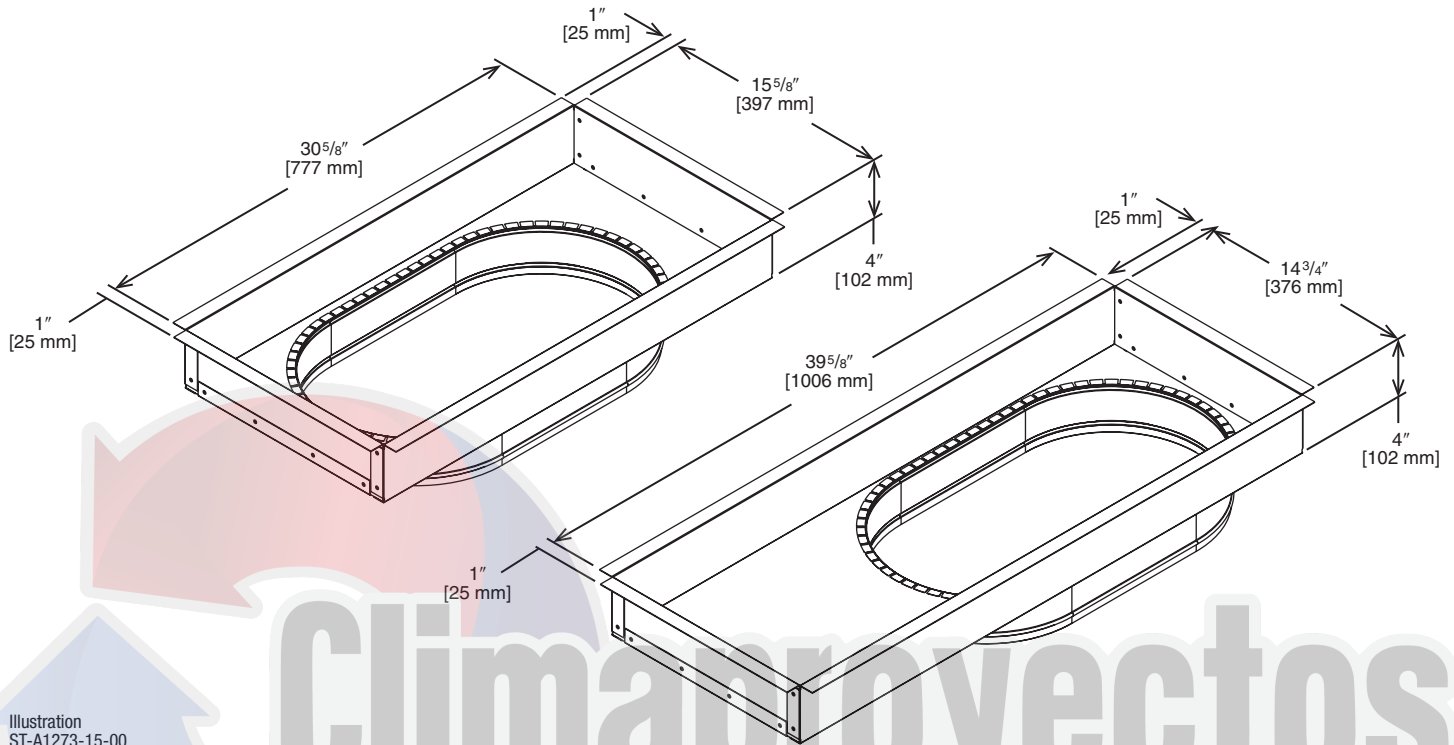


Illustration  
ST-A1273-15-00

[ ] Designates Metric Conversions

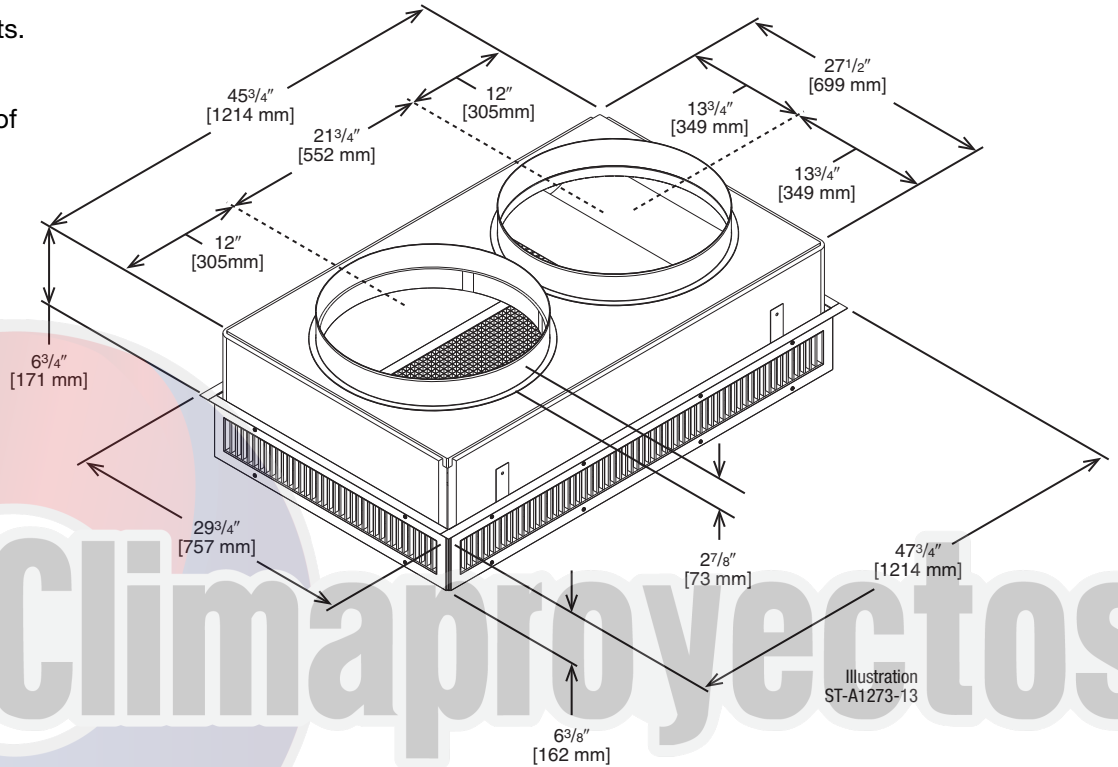
Climaproyectos

## CONCENTRIC DIFFUSER—STEP DOWN

RXRN-AED2000 (7.5 & 8.5 Ton [26.4 & 29.9 kW] Models)

For Use With Downflow Transition (RXMC-DD01)  
and 20" [508 mm] Round Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.



### ENGINEERING DATA<sup>①</sup>

Model No.	Flow Rate CFM [L/s]	Throw <sup>② ③</sup> Feet [m]	Neck Velocity fpm [m/s]	Noise Level <sup>④</sup> (dbA)
RXRN-AED2000	2600 [1222]	22-39 [6.7-11.9]	669 [3.4]	32
	2800 [1316]	23-40 [7.1-12.2]	720 [3.7]	38
	3000 [1410]	25-42 [7.6-12.8]	772 [3.9]	40
	3200 [1504]	26-43 [7.9-13.1]	823 [4.2]	41
	3400 [1598]	27-45 [8.2-13.7]	874 [4.4]	42
	3600 [1692]	30-50 [9.1-15.2]	925.5 [4.7]	45
	3800 [1786]	32-53 [9.8-16.2]	976.8 [4.9]	48
	4000 [1880]	34-56 [10.4-17.1]	1028.1 [5.2]	50

- NOTES: ① All data is based on the air diffusion council guidelines.  
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.  
 ③ Throw is based on diffuser blades being directed in a straight pattern.  
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.  
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[ ] Designates Metric Conversions

# CONCENTRIC DIFFUSER – STEP DOWN

## 15" x 34" [381 x 836 mm]

RXRN-AED3415 (8.5 & 10 Ton [29.9 kW & 35.2] Models)

For Use With Downflow Transition (RXMC-DD02)  
 and 15" x 34" [381 x 836 mm]  
 Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.

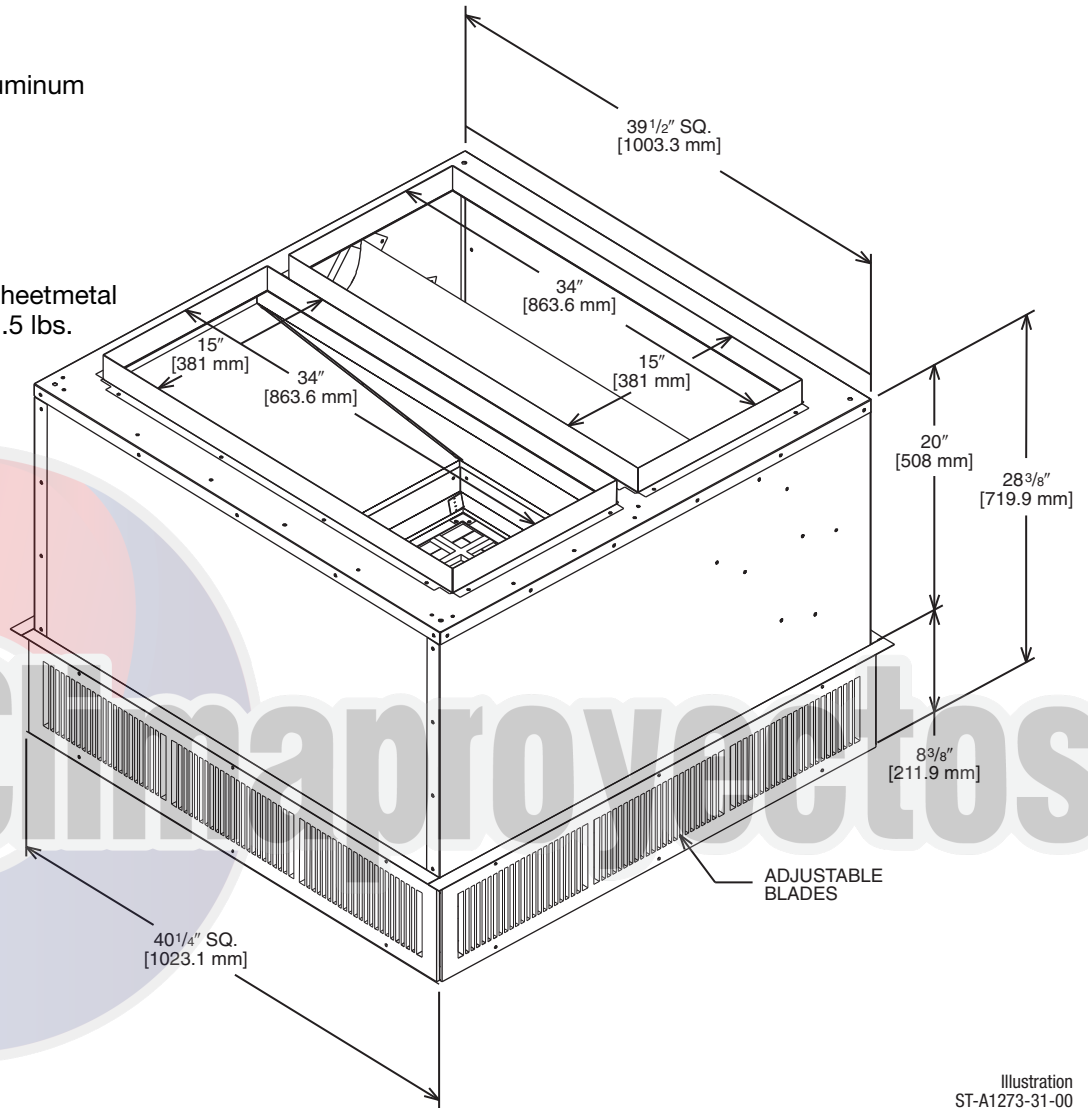


Illustration  
 ST-A1273-31-00

### ENGINEERING DATA<sup>①</sup>

Model No.	Flow Rate CFM [L/s]	Throw <sup>② ③</sup> Feet [m]	Neck Velocity fpm [m/s]	Noise Level <sup>④</sup> (dba)
RXRN-AED3415	3600 [1692]	26-53 [7.9-16.2]	851 [4.3]	27
	3800 [1786]	27-55 [8.2-16.8]	898 [4.5]	29
	4000 [1880]	29-58 [8.8-17.7]	946 [4.8]	30
	4200 [1974]	31-61 [9.4-18.6]	993 [5.1]	32
	4400 [2068]	32-64 [9.8-19.5]	1040 [5.3]	33
	4600 [2162]	34-66 [10.4-20.1]	1087.5 [5.5]	35

- NOTES: ① All data is based on the air diffusion council guidelines.  
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.  
 ③ Throw is based on diffuser blades being directed in a straight pattern.  
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise. Adequate duct attenuation must be provided to reduce sound output from the unit.

[ ] Designates Metric Conversions

# CONCENTRIC DIFFUSER—STEP DOWN 18" x 36" [457 x 914 mm]

RXRN-AED3618 (12.5 & 15 Ton [44.0 & 52.8 kW] Models)

For Use With Downflow Transition (RXMC-DD03)  
and 18" x 36" [457 x 914 mm]  
Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.

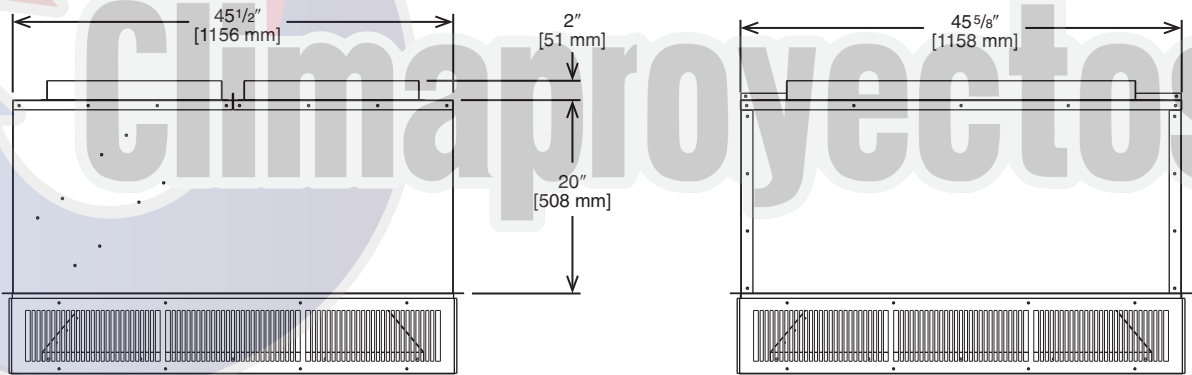
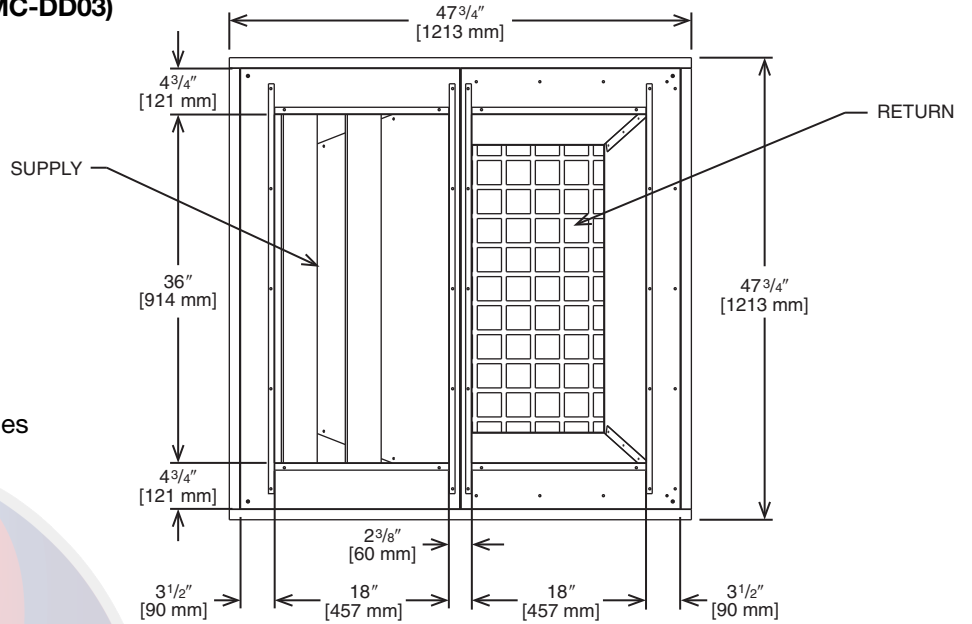


Illustration  
ST-A1273-11-00

## ENGINEERING DATA<sup>①</sup>

Model No.	Flow Rate CFM [L/s]	Throw <sup>② ③</sup> Feet [m]	Neck Velocity fpm [m/s]	Noise Level <sup>④</sup> (dbA)
RXRN-AED3618	4400 [2068]	29-55 [8.8-16.8]	841 [4.3]	26
	4600 [2162]	31-57 [9.4-17.4]	875 [4.4]	28
	4800 [2256]	32-60 [9.8-18.3]	915 [4.6]	29
	5000 [2350]	33-62 [10.1-18.9]	951 [4.8]	30
	5200 [2444]	34-65 [10.4-19.8]	988 [5.1]	31
	5400 [2538]	36-67 [10.9-20.4]	1025 [5.2]	32

- NOTES: ① All data is based on the air diffusion council guidelines.  
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.  
 ③ Throw is based on diffuser blades being directed in a straight pattern.  
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise. Adequate duct attenuation must be provided to reduce sound output from the unit.

[ ] Designates Metric Conversions



# FLUSH MOUNT CONCENTRIC DIFFUSER—FLUSH

RXRX-AEF2000 (7.5 & 8.5 Ton [26.4 & 29.9 kW] Models)

For Use With Downflow Transition (RXMC-DD01)  
20" [508 mm] Round Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.

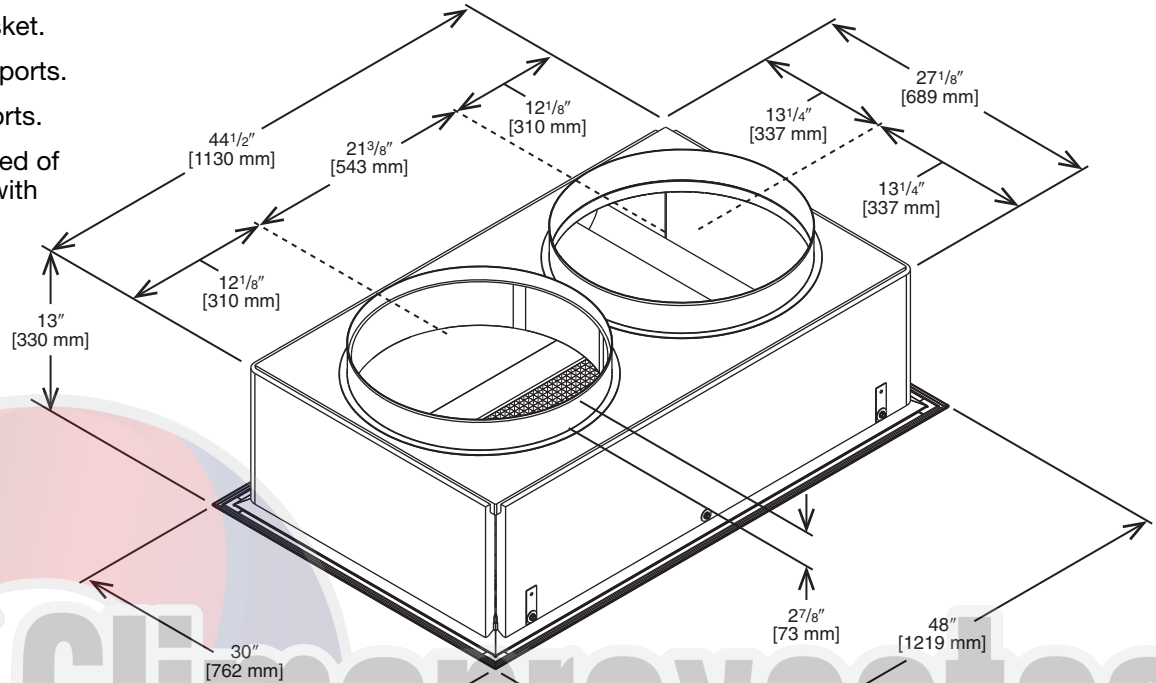


Illustration  
ST-A1273-14-00

## ENGINEERING DATA<sup>①</sup>

Model No.	Flow Rate CFM [L/s]	Throw <sup>② ③</sup> Feet [m]	Neck Velocity fpm [m/s]	Noise Level <sup>④</sup> (dB)
RXRN-AEF2000	2600 [1222]	17-24 [5.2-7.3]	663 [3.4]	30
	2800 [1316]	18-28 [5.5-8.5]	714 [3.6]	35
	3000 [1410]	20-30 [6.1-9.1]	765 [3.9]	35
	3200 [1504]	22-33 [6.7-10.1]	816 [4.1]	40
	3400 [1598]	23-37 [7-11.3]	867 [4.4]	40
	3600 [1692]	25-38 [7.6-11.6]	918 [4.7]	43
	3800 [1786]	26-39 [7.9-11.9]	969 [4.9]	45
	4000 [1880]	27-40 [8.2-12.2]	1020 [5.2]	48

NOTES: ① All data is based on the air diffusion council guidelines.

② Throw data is based on 75 FPM Terminal Velocities using isothermal air.

③ Throw is based on diffuser blades being directed in a straight pattern.

④ Actual noise levels may vary due to duct design and do not include transmitted unit noise. Adequate duct attenuation must be provided to reduce sound output from the unit.

[ ] Designates Metric Conversions

# CONCENTRIC DIFFUSER—FLUSH 15" x 34" [381 x 864 mm]

RXRN-AEF3415 (8.5 & 10 Ton [29.9 & 35.2] Models)

For Use With Downflow Transition (RXMC-DD02)  
15" x 34" [381 x 864 mm]  
Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.

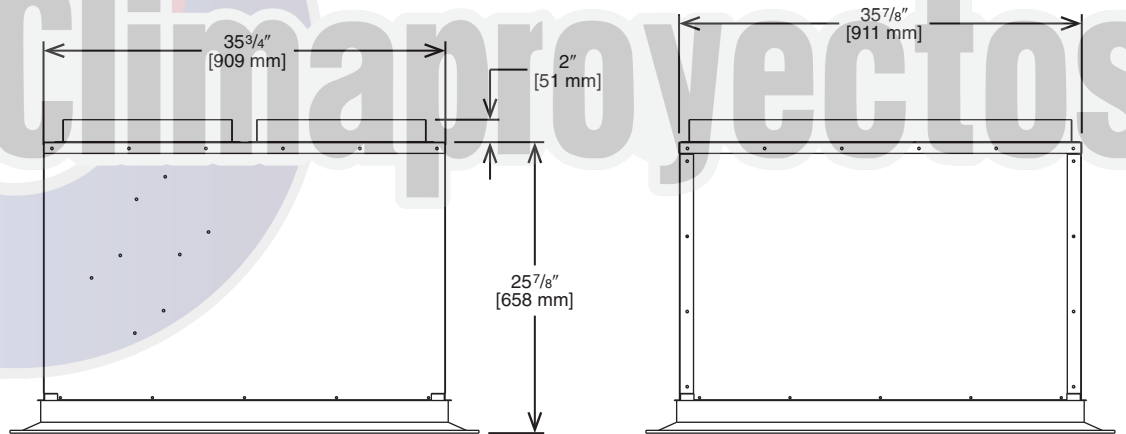
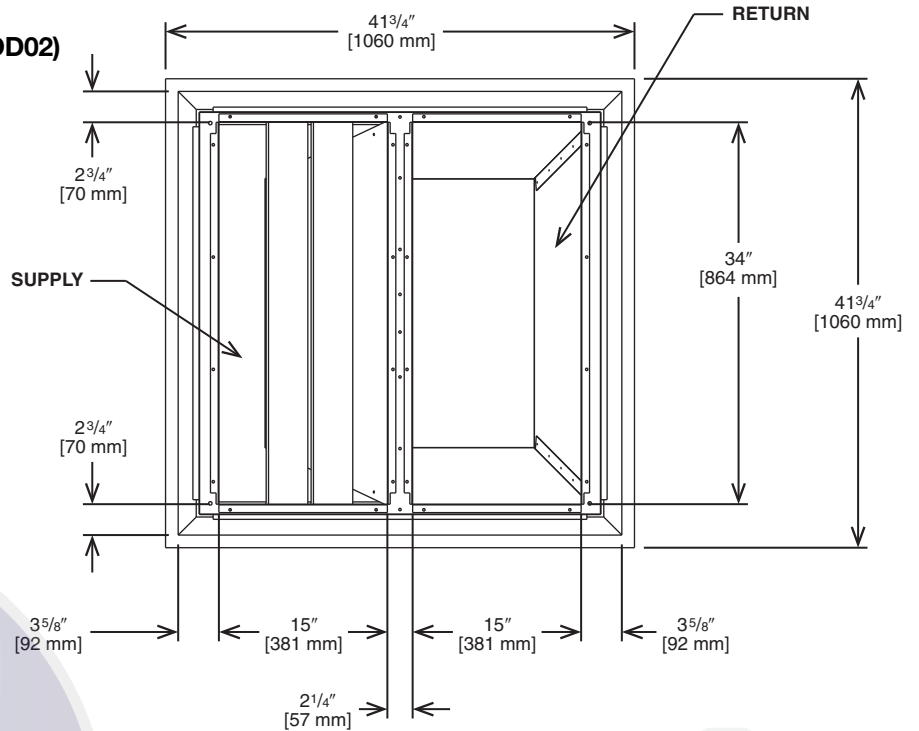


Illustration  
ST-A1273-07-00

## ENGINEERING DATA<sup>①</sup>

Model No.	Flow Rate CFM [L/s]	Throw <sup>② ③</sup> Feet [m]	Neck Velocity fpm [m/s]	Noise Level <sup>④</sup> (dbA)
RXRN-AEF3415	3600 [1692]	14-34 [4.3-10.4]	844 [4.3]	27
	3800 [1786]	15-36 [4.6-11.1]	891 [4.5]	29
	4000 [1880]	16-37 [4.9-11.3]	938 [4.8]	30
	4200 [1974]	17-39 [5.2-11.9]	985 [5.1]	32
	4400 [2068]	18-41 [5.5-12.5]	1032 [5.2]	33
	4600 [2162]	19-43 [5.8-13.1]	1079 [5.5]	35
	4800 [2256]	20-45 [6.1-13.7]	1126 [5.7]	36

- NOTES: ① All data is based on the air diffusion council guidelines.  
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.  
 ③ Throw is based on diffuser blades being directed in a straight pattern.  
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise. Adequate duct attenuation must be provided to reduce sound output from the unit.

[ ] Designates Metric Conversions



# CONCENTRIC DIFFUSER – FLUSH 18" x 36" [457 x 914 mm]

RXRN-AEF3618 (12.5 Ton [44.0 kW] Models)

For Use With Downflow Transition (RXMC-DD03)  
and 18" x 36" [457 x 914 mm]  
Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.

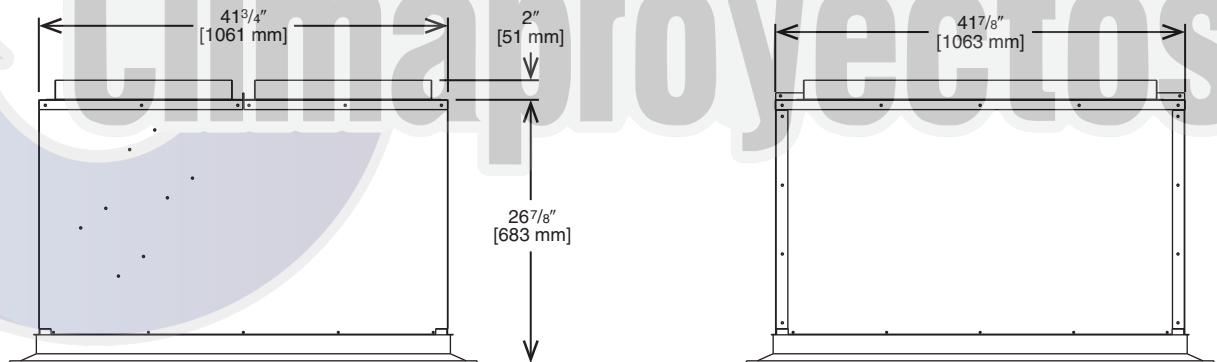
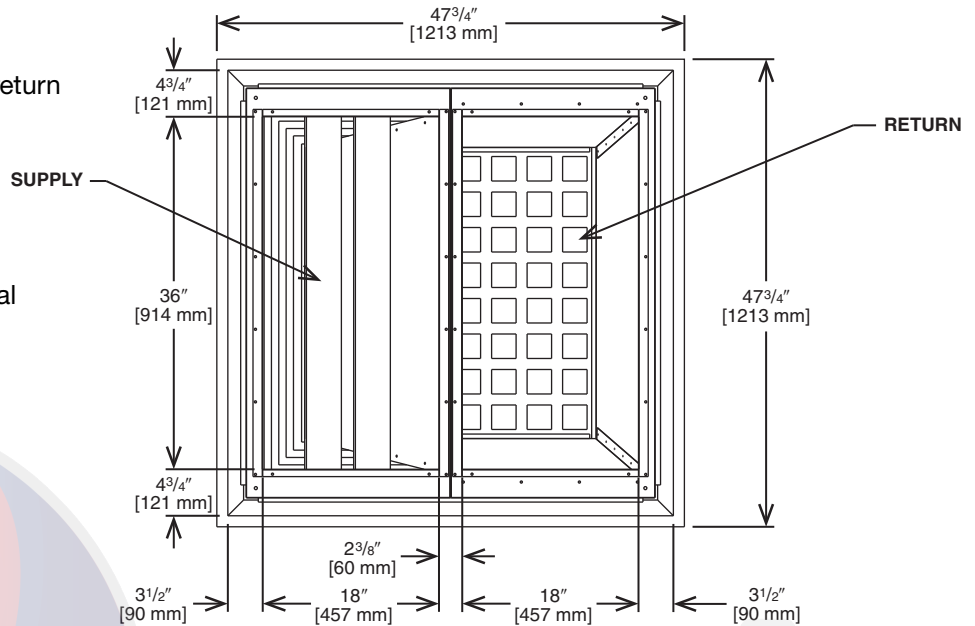


Illustration  
ST-A1273-12-00

## ENGINEERING DATA<sup>①</sup>

Model No.	Flow Rate CFM [L/s]	Throw <sup>② ③</sup> Feet [m]	Neck Velocity fpm [m/s]	Noise Level <sup>④</sup> (dbA)
RXRN-AEF3618	4400 [2068]	13-28 [4.1-8.5]	922 [47]	35
	4600 [2162]	14-30 [4.3-9.1]	962 [4.9]	37
	4800 [2256]	15-31 [4.6-9.4]	1002 [5.1]	39
	5000 [2350]	16-32 [4.9-9.8]	1043 [5.3]	40
	5200 [2444]	17-33 [5.2-10.1]	1083 [5.5]	42
	5400 [2538]	18-35 [5.5-10.7]	1123 [5.7]	43

NOTES: ① All data is based on the air diffusion council guidelines.

② Throw data is based on 75 FPM Terminal Velocities using isothermal air.

③ Throw is based on diffuser blades being directed in a straight pattern.

④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.  
Adequate duct attenuation must be provided to reduce sound output from the unit.

[ ] Designates Metric Conversions



## GUIDE SPECIFICATIONS – RACD-090 thru 150

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### ELECTRIC HEAT PACKAGED ROOFTOP

#### HVAC Guide Specifications

**Size Range: 7.5 to 12.5 Nominal Tons**

Section	Description
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<b>23 06 80</b>	<b>Schedules for Decentralized HVAC Equipment</b>
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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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- Schedule is per the project specification requirements.

<b>23 07 16</b>	<b>HVAC Equipment Insulation</b>
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23 07 16.00.A	Decentralized, Rooftop Units:
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- Interior cabinet surfaces shall be insulated with a minimum 1/2-in. thick, minimum 1.6 lb density, flexible fiberglass insulation bonded with a phenolic binder, with aluminum foil facing on the air side.
- Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

<b>23 09 13</b>	<b>Instrumentation and Control Devices for HVAC</b>
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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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- Thermostat must
  - have capability to energize 2 different stages of cooling, and 2 different stages of heating.
  - must include capability for occupancy scheduling.

<b>23 09 23</b>	<b>Direct-Digital Control System for HVAC</b>
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23 09 23.00.A.	RTU-C controller
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- Shall be ASHRAE 62-2001 compliant.
- Shall accept 18-32VAC input power.
- Shall have an operating temperature range from –40°F (–40°C) to 158°F (70°C), 10%–95% RH (non-condensing).
- 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.
- Shall accept a CO2 sensor in the conditioned space, and be Demand Control Ventilation (DCV) ready.
- Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, occupied.
- Unit shall provide surge protection for the controller through a circuit breaker.
- Shall have a field installed communication card allowing the unit to be Internet capable, and communicate at a Baud rate of 19.2K or faster
- Shall have an LED display independently showing the status of activity on the communication bus, and processor operation.
- 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.
- Software upgrades will be accomplished by local download. Software upgrades through chip replacements are not allowed.
- Shall be shock resistant in all planes to 5G peak, 11ms during operation, and 100G peak, 11ms during storage.
- Shall be vibration resistant in all planes to 1.5G @ 20-300 Hz.
- Shall support a bus length of 4000 ft max, 60 devices per 1000 ft section, and 1 RS-485 repeater per 1000 ft sections.

23 09 23.00.B.	Open protocol, direct digital controller:
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- Shall be ASHRAE 62-2001 compliant.
- Shall accept 18-30VAC, 50-60Hz, and consumer 15VA or less power.
- Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% - 90% RH (non-condensing).
- 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.
- The BACnet® plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes)
- The LonWorks™ plug in communication card shall include the Echelon processor required for all Lon applications.
- Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers
- Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
- 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.63

### **23 09 33 Electric and Electronic Control System for HVAC**

#### 23 09 33.00.A. General:

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side. Transformer shall have 100VA capabilities.
2. Shall utilize color-coded wiring.
3. Shall include a central control terminal board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, DDC control options, loss of charge, freeze sensor, high pressure switches.
4. Unit shall include a minimum of one 10-pin screw terminal connection board for connection of control wiring.

#### 23 09 33.00.B. Safeties:

1. Compressor over-temperature, over current.
2. Loss of charge switch.
  - a. Units with 2 compressors shall have different colored wires for the circuit 1 and circuit 2 low and high pressure switches.
  - b. Loss of charge switch shall use different color wire than the high pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
  - c. Loss of charge switch shall have a different sized connector than the high pressure switch. They shall physically prevent the cross-wiring of the safety switches between the high and low pressure side of the system.
3. High-pressure switch.
  - a. Units with 2 compressors shall have different colored wires for the circuit 1 and circuit 2 low and high pressure switches.
  - b. High pressure switch shall use different color wire than the low pressure switch. The purpose is to assist the installer and service person to correctly wire and or troubleshoot the rooftop unit.
  - c. High pressure switch shall have a different sized connector than the loss of charge switch. They shall physically prevent the cross-wiring of the safety switches between the high and low pressure side of the system.
4. Freeze protection sensor, evaporator coil.
5. Automatic reset, motor thermal overload protector.

### **23 09 93 Sequence of Operations for HVAC Controls**

#### 23 09 93.00.A INSERT SEQUENCE OF OPERATION

### **23 41 13 Panel Air Filters**

#### 23 41 13.00.A. Standard filter section shall

1. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
2. Filters shall be accessible through an access panel as described in the unit cabinet section of this 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 a(n) hermetic scroll compressor(s) for cooling duty and heat pump for heating 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 sound R-410a refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

#### 23 81 19.13.B. Quality Assurance

1. Unit meets ASHRAE 90.1-2007 and 2013 minimum efficiency requirements.
2. 3 phase units are Energy Star qualified.
3. Unit shall be rated in accordance with AHRI Standards 210/240 and 340/360.
4. Unit shall be designed to conform to ASHRAE 15.
5. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
6. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
7. Unit casing shall be capable of withstanding 1000-hour salt spray exposure per ASTM B117 (scribed specimen).

8. Unit shall be designed in accordance with ISO 9001:2015, and shall be manufactured in a facility registered by ISO 9001:2015.
  9. Roof curb shall be designed to conform to NRCA Standards.
  10. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
  11. Unit shall be designed in accordance with UL Standard 1995, Fifth Edition including tested to withstand rain.
  12. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
- 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.
- 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 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 or 340/360 at ± 10% voltage.
  2. Compressor with standard controls shall be capable of operation from 40°F (4°C) , ambient outdoor temperatures. Accessory low ambient kit is necessary if mechanically cooling at ambient temperatures below 40°F (4°C).
  3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
  4. Unit shall be factory configured for vertical supply & return configurations.
  5. Unit shall be field convertible from vertical to horizontal configuration.
- 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 pre-painted steel.
  2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003 inches minimum, flat (per ASTM D523, 60°F): 60, Hardness: H-2H Pencil hardness.
  3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 or 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, aluminum foil-faced on the air side.
  4. Base of unit shall have locations for thru-the-base electrical connections (factory installed or field installed), standard.
  5. Base Rail
    - a. Unit shall have base rails on 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 by fork truck.
    - d. Base rail shall be a minimum of 14 gauge thickness.
  6. Condensate pan and connections:
    - a. Shall be a sloped condensate drain pan made of a non-corrosive material.
    - b. Shall comply with ASHRAE Standard 62.
    - c. Shall use a 3/4" NPT drain connection, through the side of the drain pan. Connection shall be made per manufacturer's recommendations.
  7. Top panel:
    - a. Indoor section shall be a single piece top panel.
  8. Electrical Connections
    - a. All unit power wiring shall enter unit cabinet at a single, factory-prepared, knockout location.
    - b. Thru-the-base capability
      1. Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
      2. No basepan penetration, other than those authorized by the manufacturer, is permitted.
  9. Component access panels (standard)
    - a. Cabinet panels shall be easily removable for servicing.
    - b. Stainless steel metal hinges are standard on all doors.
    - c. Panels covering control box, indoor fan, indoor fan motor, and electric or gas heater components (where applicable), shall have 1/4 turn latches.

## 23 81 19.13.J. Coils

1. Standard Aluminum Micro Channel Coils: on all models.
  - a. Standard evaporator and condenser coils shall have aluminum micro channel coils.
  - b. Evaporator and Condenser coils shall be leak tested to 150 psig, pressure tested to 550 psig, and qualified to UL 1995 burst test at 2,200 psig.

## 23 81 19.13.K. Refrigerant Components

1. Refrigerant circuit shall include the following control, safety, and maintenance features:
  - a. Thermal Expansion Valve (TXV) with venturi type distributor .
  - b. Refrigerant filter drier.
  - c. External service gauge connections to unit suction and discharge lines.
2. Compressors
  - a. Unit shall use one fully hermetic, scroll compressor for each independent refrigeration circuit.
  - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
  - d. Compressors shall be internally protected from high discharge temperature conditions.
  - e. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
  - f. Compressor shall be factory mounted on rubber grommets.
  - g. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
  - h. Crankcase heaters shall not be required for normal operating range.

## 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. Filters shall be standard, commercially available sizes.
5. Filter face velocity shall not exceed 365 fpm at nominal airflows.

## 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.

## 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-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.
2. Condenser Fans:
  - a. Shall be a direct-driven propeller type fan.
  - b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

## 23 81 19.13.O. Special Features, Options and Accessories

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 capable of introducing up to 100% outdoor air.
  - g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
  - h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
  - i. An outdoor single enthalpy sensor shall be provided as standard. Outdoor air sensor setpoint shall be adjustable and shall range from the enthalpy equivalent of 63°F @ 50% rh to 73°F @ 50% rh. Additional sensor options shall be available as accessories.
  - j. 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%.
  - k. 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 setpoint.
  - l. Dampers shall be completely closed when the unit is in the unoccupied mode.
  - m. 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.
  - n. 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.
  - o. Actuator shall be direct 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.
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 direct 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. Head Pressure Control Package
- a. Controller shall control coil head pressure by condenser-fan cycling.
5. Condenser Coil Hail Guard Assembly
- a. Shall protect against damage from hail.
  - b. Shall be louvered design.
6. Convenience Outlet:
- a. Non-Powered convenience outlet.
    - 1. Outlet shall be powered from a separate 115-120v power source.
    - 2. A transformer shall not be included.
    - 3. Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
    - 4. Outlet shall include 15 amp GFI receptacles.
    - 5. Outlet shall be accessible from outside the unit.
7. Fan/Filter Status Switch:
- a. Switch shall provide status of indoor evaporator fan (ON/OFF) or filter (CLEAN/DIRTY).
  - b. Status shall be displayed either over communication bus (when used with direct digital controls) or through the controller LCD display inside the unit control box.
8. Propeller Power Exhaust:
- a. Power exhaust shall be used in conjunction with an integrated economizer.
  - b. Independent modules for vertical or horizontal return configurations shall be available.

- c. Horizontal power exhaust is 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.
- 9. Roof Curbs (Vertical):
  - a. Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination.
  - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
  - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- 10. High-Static Indoor Fan Motor(s) and Drive(s):
  - a. High-static motor(s) and drive(s) shall be factory-installed to provide additional performance range.
- 11. 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.
- 12.
- 13. 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.
- 14. 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 wall mount with LED display. The setpoint shall have adjustment capability.
- 15. 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 a recessed momentary switch for testing and resetting the detector.
  - e. Controller shall include:
    - 1. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
    - 2. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
    - 3. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
    - 4. Capable of direct connection to two individual detector modules.
    - 5. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
- 16. Electric Heat:
  - a. Heating Section
    - 1. 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.
    - 2. 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 a tooled access hinged door assembly.
  - 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 main unit control panel.
  - 8. Drive shall be programmed and factory run tested in the unit.



**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.**

<b>Compressor</b>	
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<b>Parts</b>	
3 Phase, Commercial Applications.....	One (1) Year



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