



Air

Packaged Heat Pumps  
RHPC Series

## Commercial Renaissance™ Line Packaged Heat Pumps



### RHPCYB Commercial *Classic®* Series Packaged Heat Pump

Cooling Efficiencies up to:

3-5 Tons: 13.4 SEER2 / 10.6 EER2

6 Tons: 14.1 IEER / 11.0 EER

Nominal Sizes: 3, 4, 5 & 6 Tons

[10.6, 14.0, 17.6 & 21.1 kW]

Cooling Capacities: 34.2 kBTU to 72.0 kBTU

Refrigerant Type: R-454B

ASHRAE 90.1 2022 Compliant Models



INTEGRATED AIR &amp; WATER

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## RHPC STANDARD FEATURES INCLUDE:

- Factory charged with R-454B refrigerant
- Wired and run tested
- Scroll compressors with internal line break overload and high pressure protection
- 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
- Over-flow 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
- Improved factory lead times
- 6 Ton includes a single 2-Stage compressor
- 3-5 Ton includes one single-stage compressor
- MERV 8 & MERV 13 filters are available as a field-installed accessory
- Standard Modbus interface



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

<sup>1</sup>When comparing the GWP of R-454B to R-410A refrigerant

## FACTORY-INSTALLED OPTIONS:

- Louvered panels
- Hinged access doors
- Low ambient/freeze stat
- Non-powered convenience outlet
- Economizer (Title 24 and ASHRAE 90.1 2022 compliant)
- Supply smoke detector

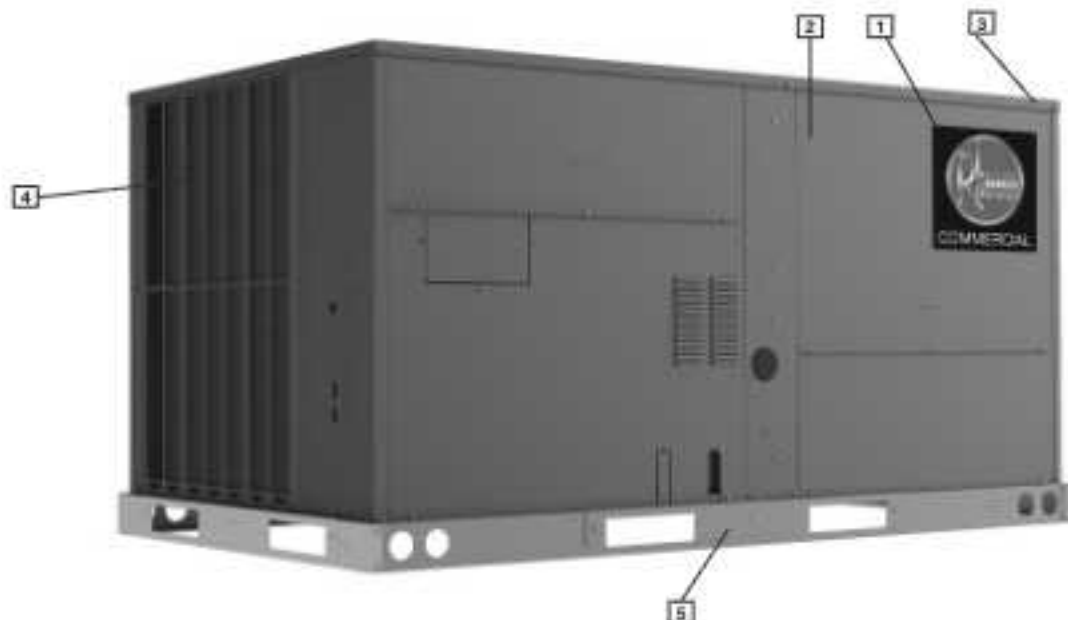
- Return smoke detector
- ElectroFin® E-Coat for Microchannel Condenser Coil Coating
- ClearControl™ Direct Digital Control (DDC)
- Comfort Alert® Phase-monitor Protection
- Vertical Economizer

## FIELD-INSTALLED ACCESSORIES:

| Accessory                                                                                               | Model Number  | Factory Installation Available? |
|---------------------------------------------------------------------------------------------------------|---------------|---------------------------------|
| Comfort Alert (1 Phase) DDC                                                                             | RXRJ-AZ03     | Yes                             |
| Comfort Alert (1 Phase) Non-DDC                                                                         | RXRJ-AZ04     | Yes                             |
| Comfort Alert (3 Phase) DDC                                                                             | RXRJ-AZ01     | Yes                             |
| Comfort Alert (3 Phase) Non-DDC                                                                         | RXRJ-AZ02     | Yes                             |
| Communication Card, BACnet®                                                                             | RXRJ-AY01     | No                              |
| Communication Card, LonWorks®                                                                           | RXRJ-AY02     | No                              |
| Concentric Adapter 3-4 Ton Drop                                                                         | RXMC-DC01     | No                              |
| Concentric Adapter 5-6 Ton Drop                                                                         | RXMC-DC02     | No                              |
| Concentric Diffuser 3-4 Ton Drop                                                                        | RXRN-AED1800  | No                              |
| Concentric Diffuser 5-6 Ton Drop                                                                        | RXRN-AED2000  | No                              |
| Concentric Diffuser 3-4 Ton Flush                                                                       | RXRN-AEF1800  | No                              |
| Concentric Diffuser 5-6 Ton Flush                                                                       | RXRN-AEF2000  | No                              |
| Convenience Outlet, Nonpowered                                                                          | RXRJ-BN01     | Yes                             |
| Dual Enthalpy Kit (for Honeywell® Jade™)                                                                | RXRJ-BV01     | No                              |
| Dual Enthalpy, Temperature and Humidity Sensor for Ruskin Basic Controller                              | PD955878      | No                              |
| Dual Enthalpy Kit DDC (for Honeywell DDC)                                                               | RXRJ-BV02     | No                              |
| Dual Enthalpy, Temperature and Humidity Sensor (for Siemens®)                                           | PD555460      | No                              |
| Economizer Universal DDC Interface Kit                                                                  | RXRJ-DDC01    | Yes                             |
| Economizer with No Controls (Downflow/Vertical) MicroMet® Economizer, No Controls, Belimo Actuator      | RXRD-31MCDAM3 | No                              |
| Economizer w/Single Enthalpy (Downflow/Vertical) MicroMet® Economizer with Honeywell Jade Controller    | RXRD-01MCDAM3 | Yes                             |
| Economizer w/Single Enthalpy (Downflow/Vertical) MicroMet® Economizer with Siemens Controls             | RXRD-11MCDAM3 | Yes                             |
| Economizer w/Single Enthalpy (Downflow/Vertical) Ruskin Rooftop Systems® with RRS Basic Controller      | RXRD-41MCDAM3 | Yes                             |
| Economizer w/Single Enthalpy (Downflow/Vertical) DDC MicroMet® Economizer with Honeywell DDC Controller | RXRD-01MCDAM3 | Yes                             |
| Economizer w/Single Enthalpy (Horizontal) MicroMet® Economizer with Honeywell Jade Controller           | RXRD-01MCHAM3 | No                              |
| Economizer w/Single Enthalpy (Horizontal) MicroMet® Economizer with Siemens Controls                    | RXRD-11MCHAM3 | No                              |
| Economizer w/Single Enthalpy (Horizontal) Ruskin Rooftop Systems with RRS Basic Controller              | RXRD-41MCHAM3 | No                              |
| Economizer w/Single Enthalpy (Horizontal) DDC MicroMet® Economizer with Honeywell DDC Controller        | RXRD-01MCHAM3 | No                              |
| Electric Heater Kits*                                                                                   | RXJJ-DC10JT   | Yes                             |
|                                                                                                         | RXJJ-DC15JT   | Yes                             |

| Accessory                                              | Model Number               | Factory Installation Available? |
|--------------------------------------------------------|----------------------------|---------------------------------|
| Electric Heater Kits*                                  | RXJJ-DC20JT                | Yes                             |
|                                                        | RXJJ-DC10CP                | Yes                             |
|                                                        | RXJJ-DC15CP                | Yes                             |
|                                                        | RXJJ-DC20CP                | Yes                             |
|                                                        | RXJJ-DC24CP                | Yes                             |
|                                                        | RXJJ-DC10DNV               | Yes                             |
|                                                        | RXJJ-DC15DNV               | Yes                             |
|                                                        | RXJJ-DC20DNV               | Yes                             |
|                                                        | RXJJ-DC24DNV               | Yes                             |
| Freeze Stat Kit                                        | RXRJ-AM05                  | Yes                             |
| Fresh Air Damper, Manual                               | RXRF-ACA1                  | No                              |
| Fresh Air Damper, Motorized                            | RXRF-ACB1                  | No                              |
| Fresh Air Damper, Motorized (DDC)                      | RXRF-ACA1                  | No                              |
| Low-Ambient Control Kit                                | RXRJ-A04                   | Yes                             |
| MERV 8 Filter                                          | RXMF-M08A21616             | No                              |
| MERV 13 Filter                                         | RXMF-M13A21616             | No                              |
| Outdoor Coil Louver Kit                                | RXRJ-ADD04C                | Yes                             |
| Power Exhaust (230V) Horizontal MicroMet®              | RXRJ-CCF03C                | No                              |
| Power Exhaust (230V) Horizontal Ruskin Rooftop Systems | RXRJ-RCF03C                | No                              |
| Power Exhaust (230V) Vertical MicroMet®                | RXRJ-CCF02C                | No                              |
| Power Exhaust (230V) Vertical Ruskin Rooftop Systems   | RXRJ-RCF02C                | No                              |
| Power Exhaust (460V) Horizontal MicroMet®              | RXRJ-CCF03D                | No                              |
| Power Exhaust (460V) Horizontal Ruskin Rooftop Systems | RXRJ-RCF03D                | No                              |
| Power Exhaust (460V) Vertical MicroMet®                | RXRJ-CCF02D                | No                              |
| Power Exhaust (460V) Vertical Ruskin Rooftop Systems   | RXRJ-RCF02D                | No                              |
| Rooftop, 14"                                           | RXKG-DCC14                 | No                              |
| Rooftop, 24"                                           | RXKG-DCC24                 | No                              |
| Rooftop Adapter                                        | RXRJ-DCCAE                 | No                              |
| Sensor, Carbon Dioxide (Wall Mount)                    | RXRJ-AR02                  | No                              |
| Sensor, Room Humidity                                  | RHC-ZNS4                   | No                              |
| Sensor, Room Temperature and Relative Humidity         | RHC-ZNS5                   | No                              |
| Single Point Wiring Kits                               | RXJX-AJ0801 (Single Phase) | No                              |
|                                                        | RXJX-AZ0801 (Three Phase)  | No                              |
| Smoke Detector, Return (Field kit)                     | RXRJ-BS01                  | No                              |
| Smoke Detector, Return/Supply (Field kit)              | RXRJ-BS02                  | No                              |
| Unfused Service Disconnect                             | RXRJ-BP01                  | Yes                             |

\*10kW options not available on 6 Ton models.



### 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 under 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 is designed to simplify the installation and replacement process with a footprint that matches existing airflow inlets, outlets and electrical connections to commonly used curb configurations in the market today.

### 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. 60335-2-40, AHRI 210/240 (3-5 ton) or AHRI 340/360 (6 ton), as well as other Rheem-required reliability tests. Rheem adheres to stringent ISO 9001 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can be assured that when a Rheem packaged unit arrives at the job, it is ready to go with a factory charge and quality checks.

### Easy Access

All major compartments are easily accessible from the front of the unit: the electrical compartment, blower compartment, heating section, and outdoor section. Each compartment has mechanical fasteners. 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

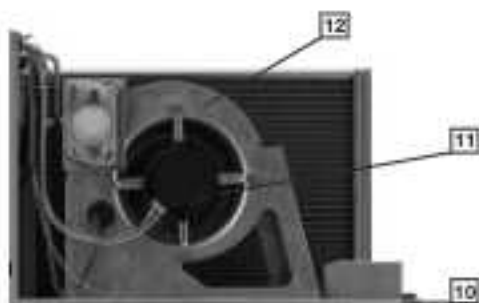
Located within the filter compartment, the Qwik-Change Flex-Fit Rack (9) allows easy changeover between 2" and 4" standard size and readily available filters.



## Blower Assembly

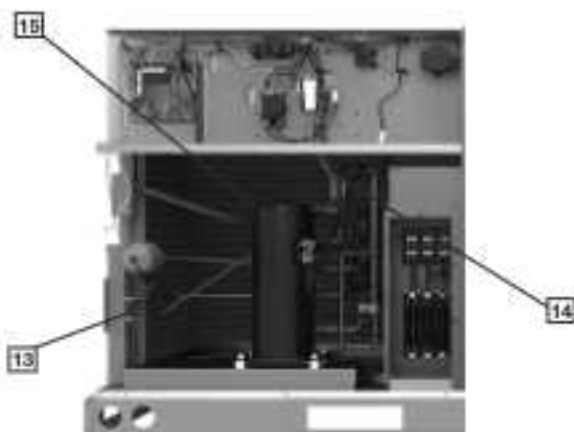
Removing three screws provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly (10) is incredibly easy to access and remove. This makes servicing internal components such as blower motor, TXV, and microchannel coil much easier. The entire assembly slides out by removing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

Where the demands for the job require high static, Rheem offers drives (11) that deliver nominal airflow up to 1.5" 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.



## 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 CoreCommand, incorporates the PlusOne Diagnostics: Dual 7-Segment LED Display (19) with easy-to-understand fault codes. The control transformer has a low voltage circuit breaker that trips if an electrical short occurs.



## ClearControl DDC System

The optional ClearControl Direct Digital Control (DDC) 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, microprocessor-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 RHPC Cooling only with the RTU-C is specifically designed to be applied in four distinct applications:

- 1. BACnet Communication** — The RHPC 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 RHPC 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 RHPC 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 RHPC is compatible with a zone sensor and a mechanical or solid state time clock connected to the RTU-C. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

## Comfort Alert

A factory or field-installed Comfort Alert (21) module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display, through the (BAS) network, or connected to the "L-Terminal" of a thermostat for notification.



## Convenience Outlet, Disconnect, & Circuit Breaker

The convenience outlet option comes non-powered from the factory (23). 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.



## 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. The plastic caps on the Shrader fitting ensure the gauge ports are leak proof, and the red cover on the caps indicates that this unit is charged with A2L refrigerant.



## Compressor

The compressor compartment houses the heartbeat of the unit. The scroll compressor (30) is known for its long life and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (31) to absorb the strain and stress that the starting torque, steady state operation, and shut-down cycle impose on the refrigerant tubing. 6-Ton model includes 2-Stage scroll compressor as standard, 3-5 ton models include one single-stage compressor.



## Condenser Fans

The condenser fan motor (32) 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 (33) 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 (34) 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 (35) 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 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 plug-in 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

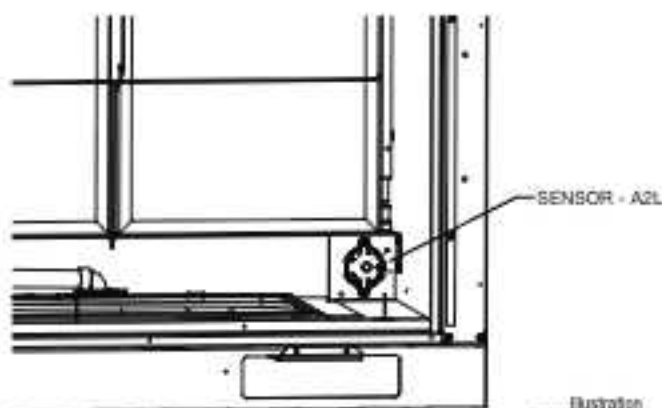
The Rheem roofcurb (36) is made for tool-less assembly at the jobsite by engaging tabs in slots of adjacent curb sides, which makes the assembly process quick and easy.



## Refrigerant Leak Detection

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

The sensor is installed on the bracket facing the filter rack. From the outside of the unit, the sensor is not visible.



| <b>R</b> | <b>HP</b> | <b>C</b> | <b>Y</b> | <b>B</b> | <b>036</b> | <b>A</b>  | <b>C</b>  | <b>T</b>  | <b>10</b>    | <b>2</b>  | <b>A</b>  | <b>A</b>  | <b>***</b>      |
|----------|-----------|----------|----------|----------|------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------------|
| <b>1</b> | <b>23</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>789</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13 14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18 19 20</b> |

#### 1—Brand

R = Rheem

#### 2, 3—Unit Type

HP = Packaged HP

#### 4—Cabinet Type

C = Small Commercial

#### 5—Refrigerant

Y = R-454B

#### 6—Efficiency Level

B = Standard Efficiency

#### 7, 8, 9—Capacity

036 = 3 Ton

048 = 4 Ton

060 = 5 Ton

072 = 6 Ton

#### 10—Major series

A = 1st Design

#### 11—Voltage

J = 1 PH, 208-230 V, 60 Hz

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

D = 3 PH, 460 V, 60 Hz

#### 12—Drive

T = Direct Drive Standard Static  
Constant Torque

U = Direct Drive High Static  
Constant Torque

#### 13, 14—Heat Capacity

00 = No Heat

10 = 10 kW

15 = 15 kW

20 = 20 kW

24 = 24 kW

#### 15—Heat Configuration

0 = No stages

1 = 1-stage

2 = 2-stage

#### 16—Control

A = CoreCommand™  
(Non-Communicating)

B = CoreCommand &  
Comfort Alert®

C = ClearControl™ (DDC)

D = ClearControl (DDC) &  
Comfort Alert

#### 17—Minor series

A = 1st Design

#### 18, 19, 20—Option Code

See next page

#### NOTES:

1. J voltage is not available on 6 Ton models

2. U drive is not available with J voltage

Comfort Alert® is a registered trademark owned by Copeland LP

## FACTORY-INSTALLED OPTION CODES FOR RHPC (3 TO 6 TON)

| 18                                      |      |    |    | 19                                  |      |    |  | 20                                    |      |    |    |
|-----------------------------------------|------|----|----|-------------------------------------|------|----|--|---------------------------------------|------|----|----|
| LV = Louver protection                  |      |    |    | LF = Low Ambient / Freeze Stat      |      |    |  | EC = Economizer                       |      |    |    |
| HA = Hinged Access                      |      |    |    | NP = Non-powered Convenience Outlet |      |    |  | SS = Supply and Return Smoke Detector |      |    |    |
| CC <sup>2</sup> = Coil Coating          |      |    |    |                                     |      |    |  | RS = Return Smoke Detector            |      |    |    |
| Option code character highlighted below |      |    |    |                                     |      |    |  |                                       |      |    |    |
| A                                       | None |    |    | A                                   | None |    |  | 0                                     | None |    |    |
| B                                       | LV   |    |    | B                                   | LF   |    |  | 1                                     | EC   |    |    |
| C                                       | HA   |    |    | C                                   | NP   |    |  | 2                                     | RS   |    |    |
| D                                       | LV   | HA |    | D                                   | LF   | NP |  | 3                                     | EC   | RS |    |
| E                                       | LV   | CC |    |                                     |      |    |  | 4                                     | SS   | RS |    |
| F                                       | LV   | HA | CC |                                     |      |    |  | 5                                     | EC   | SS | RS |

<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 "F" has Low Ambient / Freeze Stat and Disconnect switch.
- **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: "EF3"
- **Step 4:** Add your option code selection to the end of model number

Example: RHPCYB036ACT000AA

EF3

= RHPCYB036ACT000AAEF3

↑  
Base model

↑  
Option code

↑  
= Model number with option code

To select an RHPC 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—         | 47,000 BTUH [13.8 kW]                |
| Sensible Cooling Capacity—      | 36,000 BTUH [10.6 kW]                |
| Heating Capacity—               | 40,000 BTUH [10 kW]                  |
| *Condenser Entering Air—        | 95°F [35.0°C] DB                     |
| *Evaporator Mixed Air Entering— | 67°F [19.4°C] WB<br>78°F [25.6°C] DB |
| *Indoor Air Flow (vertical)—    | 1600 CFM [755 L/s]                   |
| *External Static Pressure—      | 0.6 in. WG [1.15 kPa]                |

# 2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within range of a nominal 4-ton unit, use the cooling performance table at 95°F DB condenser inlet air. Interpolate between 1730 CFM [816 L/s] and 1400 CFM [660 L/s] to determine total and sensible capacity and Depression Ratio for inlet air at 1600CFM [755 L/s] indoor airflow (table basis)

Interpolation Formula:

$$MBH_1 + \left[ (CFM - CFM_1) \times \left( \frac{MBH_2 - MBH_1}{CFM_2 - CFM_1} \right) \right] = MBH$$

Total Cooling Capacity:

$$46,800 + \left[ (1,600 - 1,730) \times \left( \frac{45,200 - 46,800}{1,400 - 1,730} \right) \right] = 46,170 \text{ BTUH}$$

Total Cooling Capacity = 46,170 BTUH [13.5 kW]

Sensible Cooling Capacity = 33,7400 BTUH [9.9 kW]

DR = 0.2

When the entering dry bulb temperature (dbE) is not 80°F [26.7°C], the sensible capacity needs to be adjusted.

Note: total capacity is unaffected

Sensible Capacity Depression Formula:

$$Cap_{sensible} + [1.10 \times CFM \times (1 - DR) \times (dbE - 80)]$$

$$= 33,740 + [1.10 \times 1,600 \times (1 - 0.2) \times (78 - 80)]$$

$$\text{Sensible Cooling Capacity} = 30,924 \text{ BTUH [9.1 kW]}$$

# 3. DETERMINE BLOWER SPEED AND BHP TO MEET SYSTEM DESIGN.

Total ESP (external static pressure) per the spec of 0.6 in WG [1.15 kPa] includes the system duct and grilles. Add from the table "Component Air Resistance," 0.13 in. WG [0.04 kPa] for wet coil. Using the "Airflow Performance Table", at the specified 1,600 CFM and 0.7 in. WG [0.17 kPa] ESP, determine blower wattage.

CFM = 1564

Watts = 440

Tap = 5

# 4. CALCULATE INDOOR BLOWER BTUH HEAT EFFECT FROM MOTOR BHP IN STEP 3.

Assuming an average of 85% motor efficiency, determine the amount of heat generated by the blower motor at the specified CFM and ESP by dividing the watts used by the motor efficiency and solving for the difference. Convert this value from watts to BTUH, multiplying by 3.41 BTUH/Watt

Watts = 440

Avg. Motor Efficiency = 85%

$$\text{Indoor Blower Motor Heat} = \left[ \left( \frac{\text{Watts}}{0.85} \right) - \text{Watts} \right] \times 3.41$$

$$= [(440/0.85) - 440] \times 3.41 = 77.6 \text{ BTUH [0.02 kW]}$$

# 5. CALCULATE THE NET COOLING CAPACITIES

Net cooling capacities can be calculated by subtracting the motor heat from the gross cooling capacities.

Net Total Capacity = Gross Total Capacity – Indoor Blower Motor Heat

$$= 46,170 - 77 = 46,093 \text{ BTUH [13.5 kW]}$$

Net Sensible Capacity = Gross Sensible Capacity – Indoor Blower Motor Heat

$$= 30,924 - 77 = 30,847 \text{ BTUH [9.0 kW]}$$

# 6. CHOOSE MODEL RHPCYB048ACT

[ ] Designates Metric Conversions

# NOM. SIZES 3–6 TONS [10.6–21.1 kW]

| Model RHPCYB Series                          | 036ACT<br>036ADT<br>036AJT | 036ACU                  | 036ADU                  |
|----------------------------------------------|----------------------------|-------------------------|-------------------------|
|                                              |                            |                         | <b>CONTINUED</b> →      |
| <b>Cooling Performance<sup>A</sup></b>       |                            |                         |                         |
| Nominal Cooling Capacity Btu/h [kW]          | 36,000 [10.55]             | 36,000 [10.55]          | 36,000 [10.55]          |
| EER <sup>2</sup>                             | 10.6                       | 10.6                    | 10.6                    |
| SEER <sup>2</sup>                            | 13.4                       | 13.4                    | 13.4                    |
| Nominal CFM [L/s]                            | 1200 [566]                 | 1200 [566]              | 1200 [566]              |
| AHRI Rated CFM [L/s]                         | 1175 [555]                 | 1175 [555]              | 1175 [555]              |
| AHRI Net Cooling Capacity Btu/h [kW]         | 34200 [10.02]              | 34200 [10.02]           | 34200 [10.02]           |
| Net Sensible Capacity Btu/h [kW]             | 25600 [7.5]                | 25600 [7.5]             | 25600 [7.5]             |
| Net Latent Capacity Btu/h [kW]               | 8600 [2.52]                | 8600 [2.52]             | 8600 [2.52]             |
| Net System Power kW                          | 3.2                        | 3.2                     | 3.2                     |
| <b>Heating Performance (Heat Pumps)</b>      |                            |                         |                         |
| High Temp. Btu/h [kW] Rating                 | 34200 [10.02]              | 34200 [10.02]           | 34200 [10.02]           |
| System Power kW/COP                          | 2.64/3.8                   | 2.64/3.8                | 2.64/3.8                |
| Low Temp. Btu/h [kW] Rating                  | 21600 [6.33]               | 21600 [6.33]            | 21600 [6.33]            |
| System Power kW/COP                          | 2.53/2.5                   | 2.53/2.5                | 2.53/2.5                |
| HSPF <sup>2</sup> (Btu/Watts-hr)             | 6.7                        | 6.7                     | 6.7                     |
| <b>Compressor</b>                            |                            |                         |                         |
| No./Type                                     | 1/Scroll                   | 1/Scroll                | 1/Scroll                |
| No./Stages                                   | 1                          | 1                       | 1                       |
| <b>Outdoor Sound Rating (dB)<sup>P</sup></b> |                            |                         |                         |
|                                              | 78                         | 78                      | 78                      |
| <b>Outdoor Coil - Fin Type</b>               |                            |                         |                         |
| Tube Type                                    | Louvered                   | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel               | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 0.63 [16]                  | 0.63 [16]               | 0.63 [16]               |
| Rows/FPI [FPM]                               | 15.75 [1.46]               | 15.75 [1.46]            | 15.75 [1.46]            |
| Refrigerant Control                          | 1/16 [6]                   | 1/16 [6]                | 1/16 [6]                |
|                                              | TX Valves                  | TX Valves               | TX Valves               |
| <b>Indoor Coil - Fin Type</b>                |                            |                         |                         |
| Tube Type                                    | Louvered                   | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel               | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.00 [25.4]                | 1.00 [25.4]             | 1.00 [25.4]             |
| Rows/FPI [FPM]                               | 7.48 [0.7]                 | 7.48 [0.7]              | 7.48 [0.7]              |
| Refrigerant Control                          | 1/20 [8]                   | 1/20 [8]                | 1/20 [8]                |
|                                              | 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]          |
| <b>Outdoor Fan - Type</b>                    |                            |                         |                         |
| Propeller                                    | Propeller                  | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                   | 1/26 [660.4]               | 1/26 [660.4]            | 1/26 [660.4]            |
| Drive Type/No. Speeds                        | Direct/1                   | Direct/1                | Direct/1                |
| CFM [L/s]                                    | 5100 [2407]                | 5100 [2407]             | 5100 [2407]             |
| No. Motors/HP                                | 1 at 1/5 HP                | 1 at 1/5 HP             | 1 at 1/5 HP             |
| Motor RPM                                    | 850                        | 850                     | 850                     |
| <b>Indoor Fan - Type</b>                     |                            |                         |                         |
| 532                                          | FC Centrifugal             | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                   | 1/11x11 [279x279]          | 1/11x11 [279x279]       | 1/11x11 [279x279]       |
| Drive Type                                   | Direct                     | Direct                  | Direct                  |
| No. Speeds                                   | Multiple                   | Multiple                | Multiple                |
| No. Motors                                   | 1                          | 1                       | 1                       |
| Motor HP                                     | 3/4                        | 1-1/2                   | 1                       |
| Motor RPM                                    | 1050                       | 1050                    | 1050                    |
| Motor Frame Size                             | 48                         | 48                      | 48                      |
| <b>Filter - Type</b>                         |                            |                         |                         |
| Disposable                                   | Disposable                 | Disposable              | Disposable              |
| Furnished                                    | Yes                        | Yes                     | Yes                     |
| (NO.) Size Recommended in. [mm x mm x mm]    | (4)2x16x16 [51x406x406]    | (4)2x16x16 [51x406x406] | (4)2x16x16 [51x406x406] |
| <b>Refrigerant Charge Oz. [g]</b>            |                            |                         |                         |
|                                              | 84 [2381]                  | 84 [2381]               | 84 [2381]               |
| <b>Weights</b>                               |                            |                         |                         |
| Net Weight lbs. [kg]                         | 532 [232]                  | 538 [235]               | 538 [235]               |
| Ship Weight lbs. [kg]                        | 570 [249]                  | 576 [251]               | 576 [251]               |

See Page 17 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 3–6 TONS [10.6–21.1 kW]

| Model RHPCYB Series                          | 048ACT<br>048ADT<br>048AJT | 048ACU                  | 048ADU                  |
|----------------------------------------------|----------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>A</sup></b>       |                            |                         |                         |
| <b>CONTINUED</b>                             |                            |                         |                         |
| Nominal Cooling Capacity Btu/h [kW]          | 48000 [14.07]              | 48000 [14.07]           | 48000 [14.07]           |
| EER2 <sup>B</sup>                            | 10.6                       | 10.6                    | 10.6                    |
| SEER2 <sup>B</sup>                           | 13.4                       | 13.4                    | 13.4                    |
| Nominal CFM [L/s]                            | 1600 [755]                 | 1600 [755]              | 1600 [755]              |
| AHRI Rated CFM [L/s]                         | 1460 [689]                 | 1460 [689]              | 1460 [689]              |
| AHRI Net Cooling Capacity Btu/h [kW]         | 45500 [13.34]              | 45500 [13.34]           | 45500 [13.34]           |
| Net Sensible Capacity Btu/h [kW]             | 34200 [10.02]              | 34200 [10.02]           | 34200 [10.02]           |
| Net Latent Capacity Btu/h [kW]               | 11300 [3.31]               | 11300 [3.31]            | 11300 [3.31]            |
| Net System Power kW                          | 4.3                        | 4.3                     | 4.3                     |
| <b>Heating Performance (Heat Pumps)</b>      |                            |                         |                         |
| High Temp. Btu/h [kW] Rating                 | 45500 [13.34]              | 45500 [13.34]           | 45500 [13.34]           |
| System Power kW/COP                          | 3.92/3.4                   | 3.92/3.4                | 3.92/3.4                |
| Low Temp. Btu/h [kW] Rating                  | 26600 [7.8]                | 26600 [7.8]             | 26600 [7.8]             |
| System Power kW/COP                          | 3.54/2.2                   | 3.54/2.2                | 3.54/2.2                |
| HSPF2 (Btu/Watts-hr)                         | 6.7                        | 6.7                     | 6.7                     |
| <b>Compressor</b>                            |                            |                         |                         |
| No./Type                                     | 1/Scroll                   | 1/Scroll                | 1/Scroll                |
| No./Stages                                   | 1                          | 1                       | 1                       |
| <b>Outdoor Sound Rating (dB)<sup>P</sup></b> |                            |                         |                         |
|                                              | 86                         | 86                      | 86                      |
| <b>Outdoor Coil - Fin Type</b>               |                            |                         |                         |
| Tube Type                                    | Louvered                   | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel               | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.26 [32]                  | 1.26 [32]               | 1.26 [32]               |
| Rows/FPI [FPCm]                              | 15.52 [1.44]               | 15.52 [1.44]            | 15.52 [1.44]            |
| Refrigerant Control                          | 1/16 [6]                   | 1/16 [6]                | 1/16 [6]                |
| Refrigerant Control                          | TX Valves                  | TX Valves               | TX Valves               |
| <b>Indoor Coil - Fin Type</b>                |                            |                         |                         |
| Tube Type                                    | Louvered                   | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel               | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.26 [32]                  | 1.26 [32]               | 1.26 [32]               |
| Rows/FPI [FPCm]                              | 7.13 [0.7]                 | 7.13 [0.7]              | 7.13 [0.7]              |
| Refrigerant Control                          | 1/20 [8]                   | 1/20 [8]                | 1/20 [8]                |
| Refrigerant Control                          | 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]          |
| <b>Outdoor Fan - Type</b>                    |                            |                         |                         |
| Propeller                                    | Propeller                  | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                   | 1/26 [660.4]               | 1/26 [660.4]            | 1/26 [660.4]            |
| Drive Type/No. Speeds                        | Direct/1                   | Direct/1                | Direct/1                |
| CFM [L/s]                                    | 5900 [2784]                | 5900 [2784]             | 5900 [2784]             |
| No. Motors/HP                                | 1 at 1/2 HP                | 1 at 1/2 HP             | 1 at 1/2 HP             |
| Motor RPM                                    | 1075                       | 1075                    | 1075                    |
| <b>Indoor Fan - Type</b>                     |                            |                         |                         |
| FC Centrifugal                               | FC Centrifugal             | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                   | 1/11x11 [279x279]          | 1/11x11 [279x279]       | 1/11x11 [279x279]       |
| Drive Type                                   | Direct                     | Direct                  | Direct                  |
| No. Speeds                                   | Multiple                   | Multiple                | Multiple                |
| No. Motors                                   | 1                          | 1                       | 1                       |
| Motor HP                                     | 3/4                        | 1-1/2                   | 1                       |
| Motor RPM                                    | 1050                       | 1050                    | 1050                    |
| Motor Frame Size                             | 48                         | 48                      | 48                      |
| <b>Filter - Type</b>                         |                            |                         |                         |
| Disposable                                   | Disposable                 | Disposable              | Disposable              |
| Furnished                                    | Yes                        | Yes                     | Yes                     |
| (NO.) Size Recommended in. [mm x mm x mm]    | (4)2x16x16 [51x406x406]    | (4)2x16x16 [51x406x406] | (4)2x16x16 [51x406x406] |
| <b>Refrigerant Charge Oz. [g]</b>            |                            |                         |                         |
|                                              | 143 [4054]                 | 143 [4054]              | 143 [4054]              |
| <b>Weights</b>                               |                            |                         |                         |
| Net Weight lbs. [kg]                         | 559 [244]                  | 565 [246]               | 565 [246]               |
| Ship Weight lbs. [kg]                        | 597 [260]                  | 603 [263]               | 603 [263]               |

See Page 17 for Notes.

[ ] Designates Metric Conversions

# NOM. SIZES 3–6 TONS [10.6–21.1 kW]

| Model RHPCYB Series                          | 060ACT<br>060ADT<br>060AJT | 060ACU                  | 060ADU                  |
|----------------------------------------------|----------------------------|-------------------------|-------------------------|
| <b>Cooling Performance*</b>                  |                            |                         |                         |
|                                              |                            |                         | <b>CONTINUED</b> →      |
| Nominal Cooling Capacity Btu/h [kW]          | 60000 [17.58]              | 60000 [17.58]           | 60000 [17.58]           |
| EER2*                                        | 10.6                       | 10.6                    | 10.6                    |
| SEER2*                                       | 13.4                       | 13.4                    | 13.4                    |
| Nominal CFM [L/s]                            | 2000 [944]                 | 2000 [944]              | 2000 [944]              |
| AHRI Rated CFM [L/s]                         | 1925 [908]                 | 1925 [908]              | 1925 [908]              |
| AHRI Net Cooling Capacity Btu/h [kW]         | 57000 [16.71]              | 57000 [16.71]           | 57000 [16.71]           |
| Net Sensible Capacity Btu/h [kW]             | 43000 [12.6]               | 43000 [12.6]            | 43000 [12.6]            |
| Net Latent Capacity Btu/h [kW]               | 14000 [4.1]                | 14000 [4.1]             | 14000 [4.1]             |
| Net System Power kW                          | 5.4                        | 5.4                     | 5.4                     |
| <b>Heating Performance (Heat Pumps)</b>      |                            |                         |                         |
| High Temp. Btu/h [kW] Rating                 | 57000 [16.71]              | 57000 [16.71]           | 57000 [16.71]           |
| System Power kW/COP                          | 4.4/3.8                    | 4.4/3.8                 | 4.4/3.8                 |
| Low Temp. Btu/h [kW] Rating                  | 26200 [7.68]               | 26200 [7.68]            | 26200 [7.68]            |
| System Power kW/COP                          | 3.34/2.3                   | 3.34/2.3                | 3.34/2.3                |
| HSPF2 (Btu/Watts-hr)                         | 6.7                        | 6.7                     | 6.7                     |
| <b>Compressor</b>                            |                            |                         |                         |
| No./Type                                     | 1/Scroll                   | 1/Scroll                | 1/Scroll                |
| No./Stages                                   | 1                          | 1                       | 1                       |
| <b>Outdoor Sound Rating (dB)<sup>2</sup></b> |                            |                         |                         |
|                                              | 84                         | 84                      | 84                      |
| <b>Outdoor Coil - Fin Type</b>               |                            |                         |                         |
| Tube Type                                    | Louvered                   | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel               | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.26 [32]                  | 1.26 [32]               | 1.26 [32]               |
| Rows/FPI [FPCm]                              | 15.52 [1.44]               | 15.52 [1.44]            | 15.52 [1.44]            |
| Refrigerant Control                          | 1/16 [6]                   | 1/16 [6]                | 1/16 [6]                |
|                                              | TX Valves                  | TX Valves               | TX Valves               |
| <b>Indoor Coil - Fin Type</b>                |                            |                         |                         |
| Tube Type                                    | Louvered                   | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel               | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.26 [32]                  | 1.26 [32]               | 1.26 [32]               |
| Rows/FPI [FPCm]                              | 7.13 [0.7]                 | 7.13 [0.7]              | 7.13 [0.7]              |
| Refrigerant Control                          | 1/20 [8]                   | 1/20 [8]                | 1/20 [8]                |
|                                              | 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]          |
| <b>Outdoor Fan - Type</b>                    |                            |                         |                         |
| No. Used/Diameter in. [mm]                   | Propeller                  | Propeller               | Propeller               |
| Drive Type/No. Speeds                        | 1/26 [660.4]               | 1/26 [660.4]            | 1/26 [660.4]            |
| CFM [L/s]                                    | Direct/1                   | Direct/1                | Direct/1                |
| No. Motors/HP                                | 5900 [2784]                | 5900 [2784]             | 5900 [2784]             |
| Motor RPM                                    | 1 at 1/2 HP                | 1 at 1/2 HP             | 1 at 1/2 HP             |
|                                              | 1075                       | 1075                    | 1075                    |
| <b>Indoor Fan - Type</b>                     |                            |                         |                         |
| No. Used/Diameter in. [mm]                   | FC Centrifugal             | FC Centrifugal          | FC Centrifugal          |
| Drive Type                                   | 1/11x11 [279x279]          | 1/11x11 [279x279]       | 1/11x11 [279x279]       |
| No. Speeds                                   | Direct                     | Direct                  | Direct                  |
| No. Motors                                   | Multiple                   | Multiple                | Multiple                |
| Motor HP                                     | 1                          | 1                       | 1                       |
| Motor RPM                                    | 1                          | 1-1/2                   | 1-1/5                   |
| Motor Frame Size                             | 1050                       | 1050                    | 1050                    |
|                                              | 48                         | 48                      | 48                      |
| <b>Filter - Type</b>                         |                            |                         |                         |
| Furnished                                    | Disposable                 | Disposable              | Disposable              |
| (NO.) Size Recommended in. [mm x mm x mm]    | Yes                        | Yes                     | Yes                     |
|                                              | (4)2x16x16 [51x406x406]    | (4)2x16x16 [51x406x406] | (4)2x16x16 [51x406x406] |
| <b>Refrigerant Charge Oz. [g]</b>            |                            |                         |                         |
|                                              | 146 [4139]                 | 146 [4139]              | 146 [4139]              |
| <b>Weights</b>                               |                            |                         |                         |
| Net Weight lbs. [kg]                         | 562 [245]                  | 568 [248]               | 568 [248]               |
| Ship Weight lbs. [kg]                        | 600 [262]                  | 606 [264]               | 606 [264]               |

See Page 17 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 3–6 TONS [10.6–21.1 kW]

| Model RHPCYB Series                          | 072ACT                  | 072ACU                  | 072ADT                  | 072ADU                  |
|----------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>A</sup></b>       |                         |                         |                         |                         |
| Nominal Cooling Capacity Btu/h [kW]          | 72,000 [21.10]          | 72,000 [21.10]          | 72,000 [21.10]          | 72,000 [21.10]          |
| EEER <sup>B</sup>                            | 11                      | 11                      | 11                      | 11                      |
| IEER <sup>C</sup>                            | 14.1                    | 14.1                    | 14.1                    | 14.1                    |
| Nominal CFM [L/s]                            | 2400 [1133]             | 2400 [1133]             | 2400 [1133]             | 2400 [1133]             |
| AHRI Rated CFM [L/s]                         | 2360 [1114]             | 2360 [1114]             | 2360 [1114]             | 2360 [1114]             |
| AHRI Net Cooling Capacity Btu/h [kW]         | 68500 [20.08]           | 68500 [20.08]           | 68500 [20.08]           | 68500 [20.08]           |
| Net Sensible Capacity Btu/h [kW]             | 51500 [15.09]           | 51500 [15.09]           | 51500 [15.09]           | 51500 [15.09]           |
| Net Latent Capacity Btu/h [kW]               | 17000 [4.98]            | 17000 [4.98]            | 17000 [4.98]            | 17000 [4.98]            |
| Net System Power kW                          | 6.18/6.18               | 6.18/6.18               | 6.18/6.18               | 6.18/6.18               |
| <b>Heating Performance (Heat Pumps)</b>      |                         |                         |                         |                         |
| High Temp. Btu/h [kW] Rating                 | 68000 [19.93]           | 68000 [19.93]           | 68000 [19.93]           | 68000 [19.93]           |
| System Power kW/COP                          | 5.86/3.4                | 5.86/3.4                | 5.86/3.4                | 5.86/3.4                |
| Low Temp. Btu/h [kW] Rating                  | 38500 [11.28]           | 38500 [11.28]           | 38500 [11.28]           | 38500 [11.28]           |
| System Power kW/COP                          | 5.01/2.25               | 5.01/2.25               | 5.01/2.25               | 5.01/2.25               |
| <b>Compressor</b>                            |                         |                         |                         |                         |
| No./Type                                     | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| No./Stages                                   | 2                       | 2                       | 2                       | 2                       |
| <b>Outdoor Sound Rating (dB)<sup>D</sup></b> |                         |                         |                         |                         |
|                                              | 84                      | 84                      | 84                      | 84                      |
| <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]                    | 1.26 [32]               | 1.26 [32]               | 1.26 [32]               | 1.26 [32]               |
| Rows/FPI [FPI/m]                             | 15.52 [1.44]            | 15.52 [1.44]            | 15.52 [1.44]            | 15.52 [1.44]            |
| Refrigerant Control                          | 1/16 [6]                | 1/16 [6]                | 1/16 [6]                | 1/16 [6]                |
|                                              | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| <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]                    | 1.26 [32]               | 1.26 [32]               | 1.26 [32]               | 1.26 [32]               |
| Rows/FPI [FPI/m]                             | 7.52 [0.7]              | 7.52 [0.7]              | 7.52 [0.7]              | 7.52 [0.7]              |
| Refrigerant Control                          | 1/20 [8]                | 1/20 [8]                | 1/20 [8]                | 1/20 [8]                |
|                                              | 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>                    |                         |                         |                         |                         |
| Propeller                                    | Propeller               | Propeller               | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                   | 1/26 [660.4]            | 1/26 [660.4]            | 1/26 [660.4]            | 1/26 [660.4]            |
| Drive Type/No. Speeds                        | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| CFM [L/s]                                    | 5900 [2784]             | 5900 [2784]             | 5900 [2784]             | 5900 [2784]             |
| No. Motors/HP                                | 1 at 1/2 HP             | 1 at 1/2 HP             | 1 at 1/2 HP             | 1 at 1/2 HP             |
| Motor RPM                                    | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan - Type</b>                     |                         |                         |                         |                         |
| FC Centrifugal                               | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                   | 1/11x11 [279x279]       | 1/11x11 [279x279]       | 1/11x11 [279x279]       | 1/11x11 [279x279]       |
| Drive Type                                   | Direct                  | Direct                  | Direct                  | Direct                  |
| No. Speeds                                   | Multiple                | Multiple                | Multiple                | Multiple                |
| No. Motors                                   | 1                       | 1                       | 1                       | 1                       |
| Motor HP                                     | 1-1/5                   | 1-1/5                   | 1-1/5                   | 1-1/5                   |
| Motor RPM                                    | 1300                    | 1300                    | 1300                    | 1300                    |
| Motor Frame Size                             | 48                      | 48                      | 48                      | 48                      |
| <b>Filter - Type</b>                         |                         |                         |                         |                         |
| Disposable                                   | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished                                    | Yes                     | Yes                     | Yes                     | Yes                     |
| (N.D.) Size Recommended in. [mm x mm x mm]   | (4)2x16x16 [51x406x406] | (4)2x16x16 [51x406x406] | (4)2x16x16 [51x406x406] | (4)2x16x16 [51x406x406] |
| <b>Refrigerant Charge Oz. [g]</b>            |                         |                         |                         |                         |
|                                              | 142 [4026]              | 142 [4026]              | 142 [4026]              | 142 [4026]              |
| <b>Weights</b>                               |                         |                         |                         |                         |
| Net Weight lbs. [kg]                         | 583 [264]               | 583 [264]               | 583 [264]               | 583 [264]               |
| Ship Weight lbs. [kg]                        | 621 [282]               | 621 [282]               | 621 [282]               | 621 [282]               |

See Page 17 for Notes.

[ ] Designates Metric Conversions

## NOTES:

- A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
- B. EER/EER2 and/or SEER2 are rated at AHRI conditions in accordance with DOE test procedures.
- C. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.
- D. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

## WEIGHTED SOUND POWER LEVEL (dBA)

| Unit Size – Series | Standard Rating (dBA) | TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment) |      |      |      |      |      |      |      |
|--------------------|-----------------------|------------------------------------------------------------|------|------|------|------|------|------|------|
|                    |                       | 63                                                         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| RHPCYB036          | 78                    | 55.2                                                       | 58.2 | 64.0 | 68.4 | 69.3 | 65.7 | 61.0 | 56.3 |
| RHPCYB048          | 86                    | 61.0                                                       | 66.8 | 76.2 | 75.6 | 75.2 | 71.9 | 67.9 | 60.8 |
| RHPCYB060          | 84                    | 57.1                                                       | 65.9 | 71.5 | 73.1 | 74.8 | 70.4 | 66.7 | 60.2 |
| RHPCYB072          | 84                    | 56.5                                                       | 59.6 | 71.9 | 73.1 | 75.0 | 71.2 | 66.8 | 60.0 |

Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

# COOLING PERFORMANCE DATA—RHPCYB036

| 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]                                           |                   | 1425 [673]                                 | 1175 [555]                       | 1025 [484]                       | 1425 [673]                       | 1175 [555]                       | 1025 [484]                       | 1425 [673]                       | 1175 [555]                        | 1025 [484]                       |                                  |
| DR ①                                                |                   | .05                                        | .09                              | .12                              | .05                              | .09                              | .12                              | .05                              | .09                               | .12                              |                                  |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F<br>[°C] | 75°F<br>[23.9°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 46.7 [13.7]<br>27.7 [8.1]<br>2.3 | 45.0 [13.2]<br>25.2 [7.4]<br>2.2 | 44.0 [12.9]<br>23.7 [6.9]<br>2.2 | 44.5 [13.0]<br>32.4 [9.5]<br>2.3 | 42.8 [12.5]<br>29.4 [8.6]<br>2.2 | 41.8 [12.3]<br>27.7 [8.1]<br>2.2 | 42.2 [12.4]<br>37.0 [10.8]<br>2.3 | 40.7 [11.9]<br>33.6 [9.8]<br>2.2 | 39.7 [11.6]<br>31.6 [9.3]<br>2.2 |
|                                                     | 80°F<br>[26.7°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 45.5 [13.3]<br>27.3 [8.0]<br>2.4 | 43.8 [12.8]<br>24.8 [7.3]<br>2.4 | 42.8 [12.5]<br>23.4 [6.9]<br>2.3 | 43.3 [12.7]<br>31.9 [9.3]<br>2.4 | 41.7 [12.2]<br>29.0 [8.5]<br>2.4 | 40.7 [11.9]<br>27.3 [8.0]<br>2.3 | 41.0 [12.0]<br>36.5 [10.7]<br>2.4 | 39.5 [11.6]<br>33.2 [9.7]<br>2.4 | 38.6 [11.3]<br>31.2 [9.1]<br>2.3 |
|                                                     | 85°F<br>[29.4°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 44.3 [13.0]<br>26.9 [7.9]<br>2.5 | 42.6 [12.5]<br>24.4 [7.2]<br>2.5 | 41.7 [12.2]<br>23.0 [6.7]<br>2.5 | 42.1 [12.3]<br>31.5 [9.2]<br>2.5 | 40.5 [11.9]<br>28.6 [8.4]<br>2.5 | 39.5 [11.6]<br>26.9 [7.9]<br>2.5 | 39.8 [11.7]<br>36.1 [10.6]<br>2.5 | 38.3 [11.2]<br>32.8 [9.6]<br>2.5 | 37.4 [11.0]<br>30.9 [9.1]<br>2.5 |
|                                                     | 90°F<br>[32.2°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 43.1 [12.6]<br>26.4 [7.7]<br>2.7 | 41.5 [12.2]<br>24.0 [7.0]<br>2.6 | 40.5 [11.9]<br>22.6 [6.6]<br>2.6 | 40.8 [12.0]<br>31.0 [9.1]<br>2.7 | 39.3 [11.5]<br>28.2 [8.3]<br>2.6 | 38.4 [11.3]<br>26.6 [7.8]<br>2.6 | 38.6 [11.3]<br>35.7 [10.5]<br>2.7 | 37.2 [10.9]<br>32.4 [9.5]<br>2.6 | 36.3 [10.6]<br>30.5 [8.9]<br>2.6 |
|                                                     | 95°F<br>[35°C]    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 41.9 [12.3]<br>26.0 [7.6]<br>2.9 | 40.3 [11.8]<br>23.6 [6.9]<br>2.8 | 39.4 [11.5]<br>22.2 [6.5]<br>2.8 | 39.6 [11.6]<br>30.6 [9.0]<br>2.9 | 38.1 [11.2]<br>27.8 [8.1]<br>2.8 | 37.3 [10.9]<br>26.2 [7.7]<br>2.8 | 37.4 [11.0]<br>35.2 [10.3]<br>2.8 | 36.0 [10.6]<br>32.0 [9.4]<br>2.8 | 35.1 [10.3]<br>30.1 [8.8]<br>2.8 |
|                                                     | 100°F<br>[37.8°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 40.6 [11.9]<br>25.6 [7.5]<br>3.0 | 39.1 [11.5]<br>23.2 [6.8]<br>3.0 | 38.2 [11.2]<br>21.9 [6.4]<br>2.9 | 38.4 [11.3]<br>30.2 [8.9]<br>3.0 | 37.0 [10.8]<br>27.4 [8.0]<br>3.0 | 36.1 [10.6]<br>25.8 [7.6]<br>2.9 | 36.1 [10.6]<br>34.6 [10.2]<br>3.0 | 34.8 [10.2]<br>31.6 [9.3]<br>3.0 | 34.0 [10.0]<br>29.8 [8.7]<br>2.9 |
|                                                     | 105°F<br>[40.6°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 39.4 [11.5]<br>25.1 [7.4]<br>3.2 | 38.0 [11.1]<br>22.8 [6.7]<br>3.2 | 37.1 [10.9]<br>21.5 [6.3]<br>3.1 | 37.2 [10.9]<br>29.7 [8.7]<br>3.2 | 35.8 [10.5]<br>27.0 [7.9]<br>3.2 | 35.0 [10.3]<br>25.4 [7.4]<br>3.1 | 34.9 [10.2]<br>34.3 [10.1]<br>3.2 | 33.6 [9.8]<br>31.2 [9.1]<br>3.2  | 32.8 [9.6]<br>29.4 [8.6]<br>3.1  |
|                                                     | 110°F<br>[43.3°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 38.2 [11.2]<br>24.7 [7.2]<br>3.4 | 36.8 [11.2]<br>24.7 [7.2]<br>3.4 | 35.9 [10.5]<br>21.1 [6.2]<br>3.3 | 36.0 [10.6]<br>29.3 [8.6]<br>3.4 | 34.6 [10.1]<br>26.6 [7.8]<br>3.4 | 33.8 [9.9]<br>25.1 [7.4]<br>3.3  | 33.7 [9.9]<br>33.7 [9.9]<br>3.4   | 32.5 [9.5]<br>30.8 [9.0]<br>3.4  | 31.7 [9.3]<br>29.0 [8.5]<br>3.3  |
|                                                     | 115°F<br>[46.1°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 37.0 [10.8]<br>24.2 [7.1]<br>3.6 | 35.6 [10.4]<br>22.0 [6.4]<br>3.6 | 34.8 [10.2]<br>20.7 [6.1]<br>3.5 | 34.7 [10.2]<br>28.9 [8.5]<br>3.6 | 33.4 [9.8]<br>26.2 [7.7]<br>3.6  | 32.7 [9.6]<br>24.7 [7.2]<br>3.5  | 32.5 [9.5]<br>32.5 [9.5]<br>3.6   | 31.3 [9.2]<br>30.4 [8.9]<br>3.6  | 30.6 [9.0]<br>28.6 [8.4]<br>3.5  |
|                                                     | 120°F<br>[48.9°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 35.8 [10.5]<br>23.8 [7.0]<br>3.9 | 34.4 [10.1]<br>21.7 [6.4]<br>3.8 | 33.6 [9.8]<br>20.4 [6.0]<br>3.7  | 33.5 [9.8]<br>28.4 [8.3]<br>3.9  | 32.3 [9.5]<br>25.8 [7.6]<br>3.8  | 31.5 [9.2]<br>24.3 [7.1]<br>3.7  | 31.3 [9.2]<br>31.3 [9.2]<br>3.9   | 30.1 [8.8]<br>30.0 [8.8]<br>3.8  | 29.4 [8.6]<br>28.3 [8.3]<br>3.7  |
|                                                     | 125°F<br>[51.7°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 34.5 [10.1]<br>23.4 [6.9]<br>4.1 | 33.3 [9.8]<br>21.3 [6.2]<br>4.0  | 32.5 [9.5]<br>20.0 [5.9]<br>4.0  | 32.3 [9.5]<br>28.0 [8.2]<br>4.1  | 31.1 [9.1]<br>25.4 [7.4]<br>4.0  | 30.4 [8.9]<br>23.9 [7.0]<br>4.0  | 30.0 [8.8]<br>30.0 [8.8]<br>4.1   | 28.9 [8.5]<br>28.9 [8.5]<br>4.0  | 28.3 [8.3]<br>27.9 [8.2]<br>4.0  |

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions



## HEATING PERFORMANCE DATA—RHPCYB036

| IDB                                       |                |                          | 60°F [15.6°C]      |                    |                    | 70°F [21.1°C]      |                    |                    | 80°F [26.7°C]      |                    |                    |
|-------------------------------------------|----------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                 |                |                          | 1350 [637]         | 1175 [555]         | 975 [460]          | 1350 [637]         | 1175 [555]         | 975 [460]          | 1350 [637]         | 1175 [555]         | 975 [460]          |
| OUTDOOR DRY BULB TEMPERATURE [°F]<br>[°C] | 0°F [-17.8°C]  | Total BTUH [kW]<br>Power | 14.6 [4.3]<br>2.0  | 14.4 [4.2]<br>2.1  | 14.2 [4.2]<br>2.1  | 14.1 [4.1]<br>2.3  | 14.0 [4.1]<br>2.4  | 13.8 [4.0]<br>2.4  | 13.7 [4.0]<br>2.6  | 13.6 [4.0]<br>2.7  | 13.4 [3.9]<br>2.7  |
|                                           | 5°F [-15.0°C]  | Total BTUH [kW]<br>Power | 16.9 [5.0]<br>2.1  | 16.7 [4.9]<br>2.1  | 16.5 [4.8]<br>2.1  | 16.5 [4.8]<br>2.3  | 16.3 [4.8]<br>2.4  | 16.1 [4.7]<br>2.4  | 16.1 [4.7]<br>2.6  | 15.9 [4.7]<br>2.7  | 15.7 [4.6]<br>2.7  |
|                                           | 10°F [-12.2°C] | Total BTUH [kW]<br>Power | 19.3 [5.7]<br>2.1  | 19.0 [5.6]<br>2.1  | 18.8 [5.5]<br>2.2  | 18.8 [5.5]<br>2.4  | 18.6 [5.5]<br>2.4  | 18.4 [5.4]<br>2.5  | 18.4 [5.4]<br>2.7  | 18.2 [5.3]<br>2.7  | 18.0 [5.3]<br>2.8  |
|                                           | 15°F [-9.4°C]  | Total BTUH [kW]<br>Power | 21.6 [6.3]<br>2.1  | 21.4 [6.3]<br>2.1  | 21.1 [6.2]<br>2.2  | 21.2 [6.2]<br>2.4  | 21.0 [6.2]<br>2.4  | 20.7 [6.1]<br>2.5  | 20.8 [6.1]<br>2.7  | 20.5 [6.0]<br>2.7  | 20.3 [5.9]<br>2.8  |
|                                           | 20°F [-6.7°C]  | Total BTUH [kW]<br>Power | 23.9 [7.0]<br>2.1  | 23.7 [6.9]<br>2.2  | 23.4 [6.9]<br>2.2  | 23.5 [6.9]<br>2.4  | 23.3 [6.8]<br>2.5  | 23.0 [6.7]<br>2.5  | 23.1 [6.8]<br>2.7  | 22.9 [6.7]<br>2.8  | 22.6 [6.6]<br>2.8  |
|                                           | 25°F [-3.9°C]  | Total BTUH [kW]<br>Power | 26.3 [7.7]<br>2.2  | 26.0 [7.6]<br>2.2  | 25.7 [7.5]<br>2.2  | 25.9 [7.6]<br>2.4  | 25.6 [7.5]<br>2.5  | 25.3 [7.4]<br>2.5  | 25.5 [7.5]<br>2.7  | 25.2 [7.4]<br>2.8  | 24.9 [7.3]<br>2.8  |
|                                           | 30°F [-1.1°C]  | Total BTUH [kW]<br>Power | 28.6 [8.4]<br>2.2  | 28.3 [8.3]<br>2.2  | 28.0 [8.2]<br>2.3  | 28.2 [8.3]<br>2.5  | 27.9 [8.2]<br>2.5  | 27.6 [8.1]<br>2.6  | 27.8 [8.1]<br>2.8  | 27.5 [8.1]<br>2.8  | 27.2 [8.0]<br>2.9  |
|                                           | 35°F [1.7°C]   | Total BTUH [kW]<br>Power | 31.0 [9.1]<br>2.2  | 30.7 [9.0]<br>2.2  | 30.3 [8.9]<br>2.3  | 30.6 [9.0]<br>2.5  | 30.3 [8.9]<br>2.5  | 29.9 [8.8]<br>2.6  | 30.2 [8.9]<br>2.8  | 29.8 [8.7]<br>2.8  | 29.5 [8.6]<br>2.9  |
|                                           | 40°F [4.4°C]   | Total BTUH [kW]<br>Power | 33.3 [9.8]<br>2.2  | 33.0 [9.7]<br>2.3  | 32.6 [9.6]<br>2.3  | 32.9 [9.6]<br>2.5  | 32.6 [9.6]<br>2.6  | 32.2 [9.4]<br>2.6  | 32.5 [9.5]<br>2.8  | 32.2 [9.4]<br>2.9  | 31.8 [9.3]<br>2.9  |
|                                           | 45°F [7.2°C]   | Total BTUH [kW]<br>Power | 35.7 [10.5]<br>2.2 | 35.3 [10.3]<br>2.3 | 34.9 [10.2]<br>2.3 | 35.3 [10.3]<br>2.5 | 34.9 [10.2]<br>2.6 | 34.5 [10.1]<br>2.6 | 34.9 [10.2]<br>2.8 | 34.5 [10.1]<br>2.9 | 34.1 [10.0]<br>2.9 |
|                                           | 50°F [10.0°C]  | Total BTUH [kW]<br>Power | 38.0 [11.1]<br>2.3 | 37.6 [11.0]<br>2.3 | 37.2 [10.9]<br>2.4 | 37.6 [11.0]<br>2.6 | 37.2 [10.9]<br>2.6 | 36.8 [10.8]<br>2.7 | 37.2 [10.9]<br>2.9 | 36.8 [10.8]<br>2.9 | 36.4 [10.7]<br>3.0 |

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA—RHPCYB048

| 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]                                           |                                            |                                            | 1900 [897]                        | 1450 [684]                       | 1375 [649]                        | 1900 [897]                        | 1450 [684]                        | 1375 [649]                        | 1900 [897]                        | 1450 [684]                        | 1375 [649]                        |
| DR ②                                                |                                            |                                            | .05                               | .09                              | .12                               | .05                               | .09                               | .12                               | .05                               | .09                               | .12                               |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F<br>[°C] | 75°F<br>[23.9°C]                           | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 63.4 [18.6]<br>36.8 [10.8]<br>3.1 | 60.0 [17.6]<br>32.1 [9.4]<br>3.0 | 59.5 [17.4]<br>31.4 [9.2]<br>3.0  | 59.2 [17.4]<br>41.7 [12.2]<br>3.2 | 56.1 [16.4]<br>36.4 [10.7]<br>3.1 | 55.6 [16.3]<br>35.6 [10.4]<br>3.1 | 55.7 [16.3]<br>47.3 [13.9]<br>3.3 | 52.7 [15.4]<br>41.3 [12.1]<br>3.2 | 52.2 [15.3]<br>40.3 [11.8]<br>3.2 |
|                                                     | 80°F<br>[26.7°C]                           | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 62.1 [18.2]<br>36.4 [10.7]<br>3.4 | 58.8 [17.2]<br>31.8 [9.3]<br>3.3 | 58.2 [17.1]<br>31.0 [9.1]<br>3.3  | 57.9 [17.0]<br>41.3 [12.1]<br>3.5 | 54.8 [16.1]<br>36.1 [10.6]<br>3.4 | 54.3 [15.9]<br>35.2 [10.3]<br>3.4 | 54.3 [15.9]<br>46.9 [13.7]<br>3.6 | 51.4 [15.1]<br>41.0 [12.0]<br>3.5 | 50.9 [14.9]<br>40.0 [11.7]<br>3.5 |
|                                                     | 85°F<br>[29.4°C]                           | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 60.7 [17.8]<br>35.9 [10.5]<br>3.7 | 57.4 [16.8]<br>31.4 [9.2]<br>3.6 | 56.9 [16.7]<br>30.6 [9.0]<br>3.6  | 56.5 [16.6]<br>40.9 [12.0]<br>3.8 | 53.5 [15.7]<br>35.7 [10.5]<br>3.7 | 53.0 [15.5]<br>34.8 [10.2]<br>3.7 | 52.9 [15.5]<br>46.4 [13.6]<br>3.9 | 50.1 [14.7]<br>40.6 [11.9]<br>3.8 | 49.6 [14.5]<br>39.6 [11.6]<br>3.7 |
|                                                     | 90°F<br>[32.2°C]                           | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 59.2 [17.4]<br>35.4 [10.4]<br>4.0 | 56.1 [16.4]<br>30.9 [9.1]<br>3.9 | 55.5 [16.3]<br>30.2 [8.9]<br>3.9  | 55.0 [16.1]<br>40.3 [11.8]<br>4.1 | 52.1 [15.3]<br>35.2 [10.3]<br>3.9 | 51.6 [15.1]<br>34.4 [10.1]<br>3.9 | 51.5 [15.1]<br>45.9 [13.5]<br>4.1 | 48.7 [14.3]<br>40.1 [11.8]<br>4.0 | 48.3 [14.2]<br>39.1 [11.5]<br>4.0 |
|                                                     | 95°F<br>[35°C]                             | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 57.7 [16.9]<br>34.8 [10.2]<br>4.2 | 54.6 [16.0]<br>30.4 [8.9]<br>4.1 | 54.1 [15.9]<br>29.7 [8.7]<br>4.1  | 53.5 [15.7]<br>39.7 [11.6]<br>4.3 | 50.7 [14.9]<br>34.7 [10.2]<br>4.2 | 50.2 [14.7]<br>33.9 [9.9]<br>4.2  | 50.0 [14.7]<br>45.3 [13.3]<br>4.4 | 47.3 [13.9]<br>39.6 [11.6]<br>4.3 | 46.8 [13.7]<br>38.6 [11.3]<br>4.3 |
|                                                     | 100°F<br>[37.8°C]                          | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 56.1 [16.4]<br>34.2 [10.0]<br>4.5 | 53.1 [15.6]<br>29.9 [8.8]<br>4.4 | 52.6 [15.4]<br>29.1 [8.5]<br>4.3  | 51.9 [15.2]<br>39.1 [11.5]<br>4.6 | 49.2 [14.4]<br>34.2 [10.0]<br>4.4 | 48.7 [14.3]<br>33.3 [9.8]<br>4.4  | 48.4 [14.2]<br>44.7 [13.1]<br>4.6 | 45.8 [13.4]<br>39.0 [11.4]<br>4.5 | 45.4 [13.3]<br>38.1 [11.2]<br>4.5 |
|                                                     | 105°F<br>[40.6°C]                          | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 54.5 [16.0]<br>33.5 [9.8]<br>4.7  | 51.6 [15.1]<br>29.2 [8.6]<br>4.6 | 51.1 [15.0]<br>28.5 [8.4]<br>4.6  | 50.3 [14.7]<br>38.4 [11.3]<br>4.8 | 47.6 [14.0]<br>33.5 [9.8]<br>4.7  | 47.2 [13.8]<br>32.7 [9.6]<br>4.6  | 46.7 [13.7]<br>44.0 [12.9]<br>4.9 | 44.2 [13.0]<br>38.4 [11.3]<br>4.7 | 43.8 [12.8]<br>37.5 [11.0]<br>4.7 |
|                                                     | 110°F<br>[43.3°C]                          | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 52.8 [15.5]<br>32.7 [9.6]<br>4.9  | 50.0 [14.7]<br>28.6 [8.4]<br>4.8 | 49.5 [14.5]<br>27.9 [8.2]<br>4.8  | 48.6 [14.2]<br>37.6 [11.0]<br>5.0 | 46.0 [13.5]<br>32.8 [9.6]<br>4.9  | 45.6 [13.4]<br>32.1 [9.4]<br>4.9  | 45.0 [13.2]<br>43.2 [12.7]<br>5.1 | 42.6 [12.5]<br>37.7 [11.0]<br>5.0 | 42.2 [12.4]<br>36.8 [10.8]<br>4.9 |
|                                                     | 115°F<br>[46.1°C]                          | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 51.0 [14.9]<br>31.9 [9.3]<br>5.1  | 48.3 [14.2]<br>27.8 [8.1]<br>5.0 | 47.9 [14.0]<br>27.2 [8.0]<br>5.0  | 46.9 [13.7]<br>36.8 [10.8]<br>5.2 | 44.4 [13.0]<br>32.1 [9.4]<br>5.1  | 43.9 [12.9]<br>31.3 [9.2]<br>5.1  | 43.3 [12.7]<br>42.3 [12.4]<br>5.3 | 41.0 [12.0]<br>37.0 [10.8]<br>5.2 | 40.6 [11.9]<br>36.1 [10.6]<br>5.1 |
|                                                     | 120°F<br>[48.9°C]                          | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 49.2 [14.4]<br>30.9 [9.1]<br>5.3  | 46.6 [13.7]<br>27.0 [7.9]<br>5.2 | 46.2 [13.5]<br>26.4 [7.7]<br>5.2  | 45.1 [13.2]<br>35.9 [10.5]<br>5.4 | 42.6 [12.5]<br>31.3 [9.2]<br>5.3  | 42.2 [12.4]<br>30.6 [9.0]<br>5.2  | 41.5 [12.2]<br>41.4 [12.1]<br>5.5 | 39.3 [11.5]<br>36.2 [10.6]<br>5.3 | 38.9 [11.4]<br>35.3 [10.3]<br>5.3 |
| 125°F<br>[51.7°C]                                   | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 47.4 [13.9]<br>30.0 [8.8]<br>5.5           | 44.8 [13.1]<br>26.2 [7.7]<br>5.4  | 44.4 [13.0]<br>25.6 [7.5]<br>5.4 | 43.2 [12.7]<br>34.9 [10.2]<br>5.6 | 40.9 [12.0]<br>30.5 [8.9]<br>5.5  | 40.5 [11.9]<br>29.7 [8.7]<br>5.4  | 39.6 [11.6]<br>39.6 [11.6]<br>5.7 | 37.5 [11.0]<br>35.3 [10.3]<br>5.5 | 37.1 [10.9]<br>34.5 [10.1]<br>5.5 |                                   |

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions



Air

Gross Systems Performance Data  
RHPC Series

## HEATING PERFORMANCE DATA—RHPCYB048

| IDB                                                 |                   |                          | 60°F (15.6°C)      |                    |                    | 70°F (21.1°C)      |                    |                    | 80°F (26.7°C)      |                    |                    |
|-----------------------------------------------------|-------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                           |                   |                          | 1725 [814]         | 1450 [684]         | 1250 [590]         | 1725 [814]         | 1450 [684]         | 1250 [590]         | 1725 [814]         | 1450 [684]         | 1250 [590]         |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F<br>[°C] | 0°F<br>[-17.8°C]  | Total BTUH [kW]<br>Power | 21.3 [6.2]<br>3.0  | 21.0 [6.2]<br>3.1  | 20.8 [6.1]<br>3.1  | 20.1 [5.9]<br>3.4  | 19.8 [5.8]<br>3.5  | 19.6 [5.7]<br>3.5  | 18.8 [5.5]<br>3.7  | 18.6 [5.5]<br>3.8  | 18.4 [5.4]<br>3.9  |
|                                                     | 5°F<br>[-15.0°C]  | Total BTUH [kW]<br>Power | 24.1 [7.1]<br>3.1  | 23.8 [7.0]<br>3.1  | 23.6 [6.9]<br>3.2  | 22.9 [6.7]<br>3.4  | 22.6 [6.6]<br>3.5  | 22.4 [6.6]<br>3.6  | 21.6 [6.3]<br>3.8  | 21.4 [6.3]<br>3.9  | 21.1 [6.2]<br>3.9  |
|                                                     | 10°F<br>[-12.2°C] | Total BTUH [kW]<br>Power | 26.9 [7.9]<br>3.1  | 26.6 [7.8]<br>3.2  | 26.3 [7.7]<br>3.2  | 25.7 [7.5]<br>3.5  | 25.4 [7.4]<br>3.5  | 25.1 [7.4]<br>3.6  | 24.5 [7.2]<br>3.8  | 24.1 [7.1]<br>3.9  | 23.9 [7.0]<br>4.0  |
|                                                     | 15°F<br>[-9.4°C]  | Total BTUH [kW]<br>Power | 29.7 [8.7]<br>3.1  | 29.3 [8.6]<br>3.2  | 29.1 [8.5]<br>3.3  | 28.5 [8.4]<br>3.5  | 28.1 [8.2]<br>3.6  | 27.9 [8.2]<br>3.7  | 27.3 [8.0]<br>3.9  | 26.9 [7.9]<br>4.0  | 26.6 [7.8]<br>4.0  |
|                                                     | 20°F<br>[-6.7°C]  | Total BTUH [kW]<br>Power | 32.6 [9.6]<br>3.2  | 32.1 [9.4]<br>3.3  | 31.8 [9.3]<br>3.3  | 31.3 [9.2]<br>3.6  | 30.9 [9.1]<br>3.6  | 30.6 [9.0]<br>3.7  | 30.1 [8.8]<br>3.9  | 29.7 [8.7]<br>4.0  | 29.4 [8.6]<br>4.1  |
|                                                     | 25°F<br>[-3.9°C]  | Total BTUH [kW]<br>Power | 35.4 [10.4]<br>3.2 | 34.9 [10.2]<br>3.3 | 34.6 [10.1]<br>3.4 | 34.1 [10.0]<br>3.6 | 33.7 [9.9]<br>3.7  | 33.4 [9.8]<br>3.7  | 32.9 [9.6]<br>4.0  | 32.5 [9.5]<br>4.1  | 32.1 [9.4]<br>4.1  |
|                                                     | 30°F<br>[-1.1°C]  | Total BTUH [kW]<br>Power | 38.2 [11.2]<br>3.3 | 37.7 [11.0]<br>3.4 | 37.3 [10.9]<br>3.4 | 37.0 [10.8]<br>3.6 | 36.5 [10.7]<br>3.7 | 36.1 [10.6]<br>3.8 | 35.7 [10.5]<br>4.0 | 35.2 [10.3]<br>4.1 | 34.9 [10.2]<br>4.2 |
|                                                     | 35°F<br>[1.7°C]   | Total BTUH [kW]<br>Power | 41.0 [12.0]<br>3.3 | 40.5 [11.9]<br>3.4 | 40.1 [11.8]<br>3.5 | 39.8 [11.7]<br>3.7 | 39.2 [11.5]<br>3.8 | 38.9 [11.4]<br>3.8 | 38.5 [11.3]<br>4.1 | 38.0 [11.1]<br>4.2 | 37.6 [11]<br>4.2   |
|                                                     | 40°F<br>[4.4°C]   | Total BTUH [kW]<br>Power | 43.8 [12.8]<br>3.4 | 43.2 [12.7]<br>3.5 | 42.8 [12.5]<br>3.5 | 42.6 [12.5]<br>3.7 | 42.0 [12.3]<br>3.8 | 41.6 [12.2]<br>3.9 | 41.3 [12.1]<br>4.1 | 40.8 [12.0]<br>4.2 | 40.4 [11.8]<br>4.3 |
|                                                     | 45°F<br>[7.2°C]   | Total BTUH [kW]<br>Power | 46.6 [13.7]<br>3.4 | 46.0 [13.5]<br>3.5 | 45.6 [13.4]<br>3.6 | 45.4 [13.3]<br>3.8 | 44.8 [13.1]<br>3.9 | 44.3 [13.0]<br>3.9 | 44.2 [13.0]<br>4.2 | 43.6 [12.8]<br>4.3 | 43.1 [12.6]<br>4.3 |
|                                                     | 50°F<br>[10.0°C]  | Total BTUH [kW]<br>Power | 49.4 [14.5]<br>3.5 | 48.8 [14.3]<br>3.6 | 48.3 [14.2]<br>3.6 | 48.2 [14.1]<br>3.8 | 47.6 [14.0]<br>3.9 | 47.1 [13.8]<br>4.0 | 47.0 [13.8]<br>4.2 | 46.3 [13.6]<br>4.3 | 45.9 [13.5]<br>4.4 |

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions



# COOLING PERFORMANCE DATA—RHPCYB060

|                                                                                                                    |                   | dbE             | 71°F (21.7°C) |             |             | 67°F (19.4°C) |             |             | 63°F (17.2°C) |             |             |
|--------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|
|                                                                                                                    |                   | CFM (L/s)       | 2250 (1062)   | 1925 (908)  | 1625 (767)  | 2250 (1062)   | 1925 (908)  | 1625 (767)  | 2250 (1062)   | 1925 (908)  | 1625 (767)  |
|                                                                                                                    |                   | DR ①            | .05           | .09         | .12         | .05           | .09         | .12         | .05           | .09         | .12         |
| O<br>U<br>T<br>D<br>O<br>O<br>R<br><br>B<br>U<br>L<br>B<br><br>T<br>E<br>M<br>P<br>E<br>R<br>A<br>T<br>U<br>R<br>E | 75°F<br>[23.9°C]  | Total BTUH (kW) | 73.7 [21.6]   | 71.5 [21.0] | 69.5 [20.4] | 70.0 [20.5]   | 67.9 [19.9] | 66.0 [19.3] | 66.2 [19.4]   | 64.2 [18.8] | 62.4 [18.3] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 42.3 [12.4]   | 39.2 [11.5] | 36.3 [10.6] | 50.7 [14.9]   | 47.0 [13.8] | 43.6 [12.8] | 59.1 [17.3]   | 54.8 [16.1] | 50.8 [14.9] |
|                                                                                                                    |                   | Power           | 3.8           | 3.8         | 3.7         | 3.9           | 3.8         | 3.8         | 3.9           | 3.8         | 3.7         |
|                                                                                                                    | 80°F<br>[26.7°C]  | Total BTUH (kW) | 71.7 [21.0]   | 69.6 [20.4] | 67.6 [19.8] | 67.9 [19.9]   | 65.9 [19.3] | 64.0 [18.8] | 64.2 [18.8]   | 62.3 [18.3] | 60.5 [17.7] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 41.3 [12.1]   | 38.2 [11.2] | 35.5 [10.4] | 49.7 [14.6]   | 46.0 [13.5] | 42.7 [12.5] | 58.1 [17.0]   | 53.8 [15.8] | 49.9 [14.6] |
|                                                                                                                    |                   | Power           | 4.1           | 4.1         | 4.0         | 4.1           | 4.1         | 4.0         | 4.1           | 4.1         | 4.0         |
|                                                                                                                    | 85°F<br>[29.4°C]  | Total BTUH (kW) | 69.7 [20.4]   | 67.6 [19.8] | 65.7 [19.3] | 65.9 [19.3]   | 63.9 [18.7] | 62.1 [18.2] | 62.1 [18.2]   | 60.3 [17.7] | 58.6 [17.2] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 40.2 [11.8]   | 37.3 [10.9] | 34.6 [10.1] | 48.6 [14.2]   | 45.1 [13.2] | 41.8 [12.3] | 57.1 [16.7]   | 52.9 [15.5] | 49.0 [14.4] |
|                                                                                                                    |                   | Power           | 4.4           | 4.3         | 4.3         | 4.4           | 4.4         | 4.3         | 4.4           | 4.3         | 4.3         |
|                                                                                                                    | 90°F<br>[32.2°C]  | Total BTUH (kW) | 67.6 [19.8]   | 65.6 [19.2] | 63.6 [18.7] | 63.9 [18.7]   | 62.0 [18.2] | 60.2 [17.6] | 60.1 [17.6]   | 58.3 [17.1] | 56.6 [16.6] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 39.2 [11.5]   | 36.3 [10.6] | 33.7 [9.9]  | 47.6 [14.0]   | 44.1 [12.9] | 40.9 [12.0] | 56.0 [16.4]   | 51.9 [15.2] | 48.2 [14.1] |
|                                                                                                                    |                   | Power           | 4.7           | 4.6         | 4.5         | 4.7           | 4.6         | 4.6         | 4.7           | 4.6         | 4.6         |
| *F<br>[°C]                                                                                                         | 95°F<br>[35°C]    | Total BTUH (kW) | 65.6 [19.2]   | 63.6 [18.6] | 61.6 [18.1] | 61.8 [18.1]   | 60.0 [17.6] | 58.3 [17.1] | 58.1 [17.0]   | 56.3 [16.5] | 54.7 [16.0] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 38.2 [11.2]   | 35.4 [10.4] | 32.8 [9.6]  | 46.6 [13.7]   | 43.2 [12.7] | 40.0 [11.7] | 55.0 [16.1]   | 51.0 [14.9] | 47.3 [13.9] |
|                                                                                                                    |                   | Power           | 5.0           | 4.9         | 4.8         | 5.0           | 4.9         | 4.8         | 5.0           | 4.9         | 4.8         |
|                                                                                                                    | 100°F<br>[37.8°C] | Total BTUH (kW) | 63.5 [18.6]   | 61.7 [18.1] | 59.9 [17.6] | 59.8 [17.5]   | 58.0 [17.0] | 56.4 [16.5] | 56.0 [16.4]   | 54.3 [15.9] | 52.8 [15.5] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 37.1 [10.9]   | 34.4 [10.1] | 31.9 [9.3]  | 45.6 [13.4]   | 42.2 [12.4] | 39.2 [11.5] | 54.0 [15.8]   | 50.0 [14.7] | 46.4 [13.6] |
|                                                                                                                    |                   | Power           | 5.2           | 5.2         | 5.1         | 5.2           | 5.2         | 5.1         | 5.2           | 5.2         | 5.1         |
|                                                                                                                    | 105°F<br>[40.6°C] | Total BTUH (kW) | 61.5 [18.0]   | 59.7 [17.5] | 58.0 [17.0] | 57.7 [16.9]   | 56.0 [16.4] | 54.4 [15.9] | 54.0 [15.8]   | 52.4 [15.4] | 50.9 [14.9] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 36.1 [10.6]   | 33.5 [9.8]  | 31.0 [9.1]  | 44.5 [13.0]   | 41.3 [12.1] | 38.3 [11.2] | 52.9 [15.5]   | 49.1 [14.4] | 45.5 [13.3] |
|                                                                                                                    |                   | Power           | 5.5           | 5.4         | 5.4         | 5.5           | 5.4         | 5.4         | 5.5           | 5.4         | 5.4         |
|                                                                                                                    | 110°F<br>[43.3°C] | Total BTUH (kW) | 59.5 [17.4]   | 57.7 [16.9] | 56.1 [16.4] | 55.7 [16.3]   | 54.0 [15.8] | 52.5 [15.4] | 51.9 [15.2]   | 50.4 [14.8] | 49.0 [14.4] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 35.1 [10.3]   | 32.5 [9.5]  | 30.2 [8.9]  | 43.5 [12.7]   | 40.3 [11.8] | 37.4 [11.0] | 51.9 [15.2]   | 48.1 [14.1] | 44.6 [13.1] |
|                                                                                                                    |                   | Power           | 5.8           | 5.7         | 5.6         | 5.8           | 5.7         | 5.6         | 5.8           | 5.7         | 5.6         |
|                                                                                                                    | 115°F<br>[46.1°C] | Total BTUH (kW) | 57.4 [16.8]   | 55.7 [16.3] | 54.1 [15.9] | 53.7 [15.7]   | 52.1 [15.3] | 50.6 [14.8] | 49.9 [14.6]   | 48.4 [14.2] | 47.0 [13.8] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 34.1 [10.0]   | 31.6 [9.3]  | 29.3 [8.6]  | 42.5 [12.5]   | 39.4 [11.5] | 36.5 [10.7] | 49.9 [14.6]   | 47.2 [13.8] | 43.7 [12.8] |
|                                                                                                                    |                   | Power           | 6.1           | 6.0         | 5.9         | 6.1           | 6.0         | 5.9         | 6.1           | 6.0         | 5.9         |
|                                                                                                                    | 120°F<br>[48.9°C] | Total BTUH (kW) | 55.4 [16.2]   | 53.7 [15.7] | 52.2 [15.3] | 51.6 [15.1]   | 50.1 [14.7] | 48.7 [14.3] | 47.9 [14.0]   | 46.4 [13.6] | 45.1 [13.2] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 33.0 [9.7]    | 30.6 [9.0]  | 28.4 [8.3]  | 41.4 [12.1]   | 38.4 [11.3] | 35.6 [10.4] | 47.9 [14.0]   | 46.2 [13.5] | 42.9 [12.6] |
|                                                                                                                    |                   | Power           | 6.3           | 6.2         | 6.2         | 6.4           | 6.3         | 6.2         | 6.3           | 6.3         | 6.2         |
|                                                                                                                    | 125°F<br>[51.7°C] | Total BTUH (kW) | 53.4 [15.7]   | 51.8 [15.2] | 50.3 [14.7] | 49.6 [14.5]   | 48.1 [14.1] | 46.8 [13.7] | 45.8 [13.4]   | 44.5 [13.0] | 43.2 [12.7] |
|                                                                                                                    |                   | Sens BTUH (kW)  | 32.0 [9.4]    | 29.7 [8.7]  | 27.5 [8.1]  | 40.4 [11.8]   | 37.5 [11.0] | 34.7 [10.2] | 45.8 [13.4]   | 44.5 [13.0] | 42.0 [12.3] |
|                                                                                                                    |                   | Power           | 6.6           | 6.5         | 6.4         | 6.6           | 6.5         | 6.4         | 6.6           | 6.5         | 6.4         |

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

## HEATING PERFORMANCE DATA—RHPCYB060

| IDB                                                 |                          |                          | 60°F [15.6°C]      |                    |                    | 70°F [21.1°C]      |                    |                    | 80°F [26.7°C]      |                    |                    |
|-----------------------------------------------------|--------------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                           |                          |                          | 2000 [944]         | 1925 [908]         | 1450 [684]         | 2000 [944]         | 1925 [908]         | 1450 [684]         | 2000 [944]         | 1925 [908]         | 1450 [684]         |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F<br>[°C] | 0°F<br>[-17.6°C]         | Total BTUH [kW]<br>Power | 17.0 [5.0]<br>3.4  | 17.0 [5.0]<br>3.5  | 16.7 [4.9]<br>3.6  | 20.7 [6.1]<br>4.0  | 20.6 [6.0]<br>4.0  | 20.3 [5.9]<br>4.2  | 24.4 [7.2]<br>4.6  | 24.3 [7.1]<br>4.6  | 23.9 [7.0]<br>4.7  |
|                                                     | 5°F<br>[-15.0°C]         | Total BTUH [kW]<br>Power | 20.5 [6.0]<br>3.5  | 20.4 [6.0]<br>3.5  | 20.1 [5.9]<br>3.6  | 24.2 [7.1]<br>4.1  | 24.1 [7.1]<br>4.1  | 23.7 [6.9]<br>4.2  | 27.8 [8.1]<br>4.6  | 27.7 [8.1]<br>4.6  | 27.3 [8.0]<br>4.8  |
|                                                     | 10°F<br>[-12.2°C]        | Total BTUH [kW]<br>Power | 24.0 [7.0]<br>3.5  | 23.9 [7.0]<br>3.5  | 23.5 [6.9]<br>3.6  | 27.6 [8.1]<br>4.1  | 27.6 [8.1]<br>4.1  | 27.1 [7.9]<br>4.2  | 31.3 [9.2]<br>4.6  | 31.2 [9.1]<br>4.6  | 30.7 [9.0]<br>4.8  |
|                                                     | 15°F<br>[-9.4°C]         | Total BTUH [kW]<br>Power | 27.4 [8.0]<br>3.6  | 27.4 [8.0]<br>3.6  | 26.9 [7.9]<br>3.7  | 31.1 [9.1]<br>4.1  | 31.0 [9.1]<br>4.1  | 30.5 [8.9]<br>4.3  | 34.8 [10.2]<br>4.7 | 34.7 [10.2]<br>4.7 | 34.1 [10.0]<br>4.8 |
|                                                     | 20°F<br>[-6.7°C]         | Total BTUH [kW]<br>Power | 30.9 [9.1]<br>3.6  | 30.8 [9.0]<br>3.6  | 30.3 [8.9]<br>3.7  | 34.6 [10.1]<br>4.2 | 34.5 [10.1]<br>4.2 | 33.9 [9.9]<br>4.3  | 38.2 [11.2]<br>4.7 | 38.1 [11.2]<br>4.7 | 37.4 [11.0]<br>4.9 |
|                                                     | 25°F<br>[-3.9°C]         | Total BTUH [kW]<br>Power | 34.4 [10.1]<br>3.6 | 34.3 [10.1]<br>3.6 | 33.7 [9.9]<br>3.8  | 38.0 [11.1]<br>4.2 | 37.9 [11.1]<br>4.2 | 37.3 [10.9]<br>4.4 | 41.7 [12.2]<br>4.7 | 41.6 [12.2]<br>4.8 | 40.8 [12.0]<br>4.9 |
|                                                     | 30°F<br>[-1.1°C]         | Total BTUH [kW]<br>Power | 37.8 [11.1]<br>3.7 | 37.7 [11.0]<br>3.7 | 37.1 [10.9]<br>3.8 | 41.5 [12.2]<br>4.2 | 41.4 [12.1]<br>4.3 | 40.7 [11.9]<br>4.4 | 45.2 [13.2]<br>4.8 | 45.0 [13.2]<br>4.8 | 44.2 [13.0]<br>4.9 |
|                                                     | 35°F<br>[1.7°C]          | Total BTUH [kW]<br>Power | 41.3 [12.1]<br>3.7 | 41.2 [12.1]<br>3.7 | 40.5 [11.9]<br>3.8 | 45.0 [13.2]<br>4.3 | 44.8 [13.1]<br>4.3 | 44.1 [12.9]<br>4.4 | 48.6 [14.2]<br>4.8 | 48.5 [14.2]<br>4.8 | 47.6 [14.0]<br>5.0 |
|                                                     | 40°F<br>[4.4°C]          | Total BTUH [kW]<br>Power | 44.8 [13.1]<br>3.7 | 44.7 [13.1]<br>3.8 | 43.9 [12.9]<br>3.9 | 48.4 [14.2]<br>4.3 | 48.3 [14.2]<br>4.3 | 47.5 [13.9]<br>4.5 | 52.1 [15.3]<br>4.8 | 52.0 [15.2]<br>4.9 | 51.0 [14.9]<br>5.0 |
|                                                     | 45°F<br>[7.2°C]          | Total BTUH [kW]<br>Power | 48.2 [14.1]<br>3.8 | 48.1 [14.1]<br>3.8 | 47.3 [13.9]<br>3.9 | 51.9 [15.2]<br>4.3 | 51.8 [15.2]<br>4.4 | 50.9 [14.9]<br>4.5 | 55.6 [16.3]<br>4.9 | 55.4 [16.2]<br>4.9 | 54.4 [15.9]<br>5.1 |
| 50°F<br>[10.0°C]                                    | Total BTUH [kW]<br>Power | 51.7 [15.2]<br>3.8       | 51.6 [15.1]<br>3.8 | 50.7 [14.9]<br>4.0 | 55.4 [16.2]<br>4.4 | 55.2 [16.2]<br>4.4 | 54.2 [15.9]<br>4.5 | 59.0 [17.3]<br>4.9 | 58.9 [17.3]<br>4.9 | 57.8 [16.9]<br>5.1 |                    |

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA—RHPCYB072

| 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]                                           |                   | 2850 [1345]                                | 2350 [1109]                       | 2050 [967]                        | 2850 [1345]                       | 2350 [1109]                       | 2050 [967]                        | 2850 [1345]                       | 2350 [1109]                       | 2050 [967]                        |
| DR ①                                                |                   | .05                                        | .09                               | .12                               | .05                               | .09                               | .12                               | .05                               | .09                               | .12                               |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F<br>[°C] | 75°F<br>[23.9°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 81.9 [24.0]<br>48.0 [14.1]<br>4.3 | 78.9 [23.1]<br>43.6 [12.8]<br>4.3 | 77.1 [22.6]<br>41.0 [12.0]<br>4.2 | 78.7 [23.1]<br>57.9 [17.0]<br>4.2 | 75.7 [22.2]<br>52.7 [15.4]<br>4.1 | 74.0 [21.7]<br>49.5 [14.5]<br>4.1 | 75.4 [22.1]<br>62.7 [18.4]<br>4.3 | 72.6 [21.3]<br>57.0 [16.7]<br>4.2 |
|                                                     | 80°F<br>[26.7°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 82.3 [24.1]<br>48.8 [14.3]<br>4.7 | 79.2 [23.2]<br>44.4 [13.0]<br>4.6 | 77.4 [22.7]<br>41.8 [12.3]<br>4.6 | 79.0 [23.2]<br>58.8 [17.2]<br>4.6 | 76.1 [22.3]<br>53.5 [15.7]<br>4.5 | 74.3 [21.8]<br>50.3 [14.7]<br>4.4 | 75.8 [22.2]<br>63.6 [18.6]<br>4.7 | 73.0 [21.4]<br>57.8 [16.9]<br>4.6 |
|                                                     | 85°F<br>[29.4°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 82.5 [24.2]<br>49.5 [14.5]<br>5.1 | 79.4 [23.3]<br>45.1 [13.2]<br>5.0 | 77.6 [22.7]<br>42.4 [12.4]<br>5.0 | 79.2 [23.2]<br>59.5 [17.4]<br>5.0 | 76.3 [22.4]<br>54.1 [15.9]<br>4.9 | 74.5 [21.8]<br>50.9 [14.9]<br>4.8 | 76.0 [22.3]<br>64.3 [18.8]<br>5.1 | 73.2 [21.5]<br>58.5 [17.1]<br>5.0 |
|                                                     | 90°F<br>[32.2°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 82.5 [24.2]<br>50.1 [14.7]<br>5.5 | 79.4 [23.3]<br>45.5 [13.3]<br>5.4 | 77.6 [22.7]<br>42.8 [12.5]<br>5.3 | 79.2 [23.2]<br>60.0 [17.6]<br>5.3 | 76.3 [22.4]<br>54.6 [16.0]<br>5.2 | 74.5 [21.8]<br>51.3 [15.0]<br>5.2 | 76.0 [22.3]<br>64.8 [19.0]<br>5.4 | 73.2 [21.5]<br>58.9 [17.3]<br>5.3 |
|                                                     | 95°F<br>[35.0°C]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 82.3 [24.1]<br>50.4 [14.8]<br>5.9 | 79.3 [23.2]<br>45.8 [13.4]<br>5.8 | 77.4 [22.7]<br>43.1 [12.6]<br>5.7 | 79.1 [23.2]<br>60.3 [17.7]<br>5.7 | 76.1 [22.3]<br>54.9 [16.1]<br>5.6 | 74.3 [21.8]<br>51.6 [15.1]<br>5.6 | 75.8 [22.2]<br>65.1 [19.1]<br>5.8 | 73.0 [21.4]<br>59.2 [17.4]<br>5.7 |
|                                                     | 100°F<br>[37.8°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 82.0 [24.0]<br>50.5 [14.8]<br>6.3 | 78.9 [23.1]<br>46.0 [13.5]<br>6.1 | 77.1 [22.6]<br>43.2 [12.7]<br>6.1 | 78.7 [23.1]<br>60.5 [17.7]<br>6.1 | 75.8 [22.2]<br>55.0 [16.1]<br>6.0 | 74.0 [21.7]<br>51.7 [15.2]<br>5.9 | 75.5 [22.1]<br>65.3 [19.1]<br>6.2 | 72.7 [21.3]<br>59.4 [17.4]<br>6.1 |
|                                                     | 105°F<br>[40.6°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 81.5 [23.9]<br>50.5 [14.8]<br>6.6 | 78.4 [23.0]<br>46.0 [13.5]<br>6.5 | 76.6 [22.5]<br>43.2 [12.7]<br>6.4 | 78.2 [22.9]<br>60.4 [17.7]<br>6.5 | 75.3 [22.1]<br>55.0 [16.1]<br>6.4 | 73.5 [21.5]<br>51.7 [15.2]<br>6.3 | 75.0 [22.0]<br>65.2 [19.1]<br>6.6 | 72.2 [21.2]<br>59.3 [17.4]<br>6.5 |
|                                                     | 110°F<br>[43.3°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 80.8 [23.7]<br>50.3 [14.7]<br>7.0 | 77.7 [22.8]<br>45.8 [13.4]<br>6.9 | 75.9 [22.2]<br>43.0 [12.6]<br>6.8 | 77.5 [22.7]<br>60.2 [17.6]<br>6.9 | 74.6 [21.9]<br>54.8 [16.1]<br>6.7 | 72.9 [21.4]<br>51.5 [15.1]<br>6.7 | 74.3 [21.8]<br>65.0 [19.1]<br>7.0 | 71.5 [21.0]<br>59.1 [17.3]<br>6.8 |
|                                                     | 115°F<br>[46.1°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 79.9 [23.4]<br>49.9 [14.6]<br>7.4 | 76.9 [22.5]<br>45.4 [13.3]<br>7.3 | 75.1 [22.0]<br>42.7 [12.5]<br>7.2 | 76.6 [22.5]<br>59.8 [17.5]<br>7.2 | 73.7 [21.6]<br>54.4 [15.9]<br>7.1 | 72.0 [21.1]<br>51.2 [15.0]<br>7.0 | 73.4 [21.5]<br>64.6 [18.9]<br>7.3 | 70.6 [20.7]<br>58.8 [17.2]<br>7.2 |
|                                                     | 120°F<br>[48.9°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 78.8 [23.1]<br>49.3 [14.4]<br>7.8 | 75.9 [22.2]<br>44.8 [13.1]<br>7.6 | 74.1 [21.7]<br>42.2 [12.4]<br>7.6 | 75.5 [22.1]<br>59.2 [17.4]<br>7.6 | 72.7 [21.3]<br>53.9 [15.8]<br>7.5 | 71.0 [20.8]<br>50.7 [14.9]<br>7.4 | 72.3 [21.2]<br>64.0 [18.8]<br>7.7 | 69.6 [20.4]<br>58.2 [17.1]<br>7.6 |
|                                                     | 125°F<br>[51.7°C] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 77.6 [22.7]<br>48.5 [14.2]<br>8.2 | 74.7 [21.9]<br>44.1 [12.9]<br>8.0 | 73.0 [21.4]<br>41.5 [12.2]<br>7.9 | 74.3 [21.8]<br>58.5 [17.1]<br>8.0 | 71.5 [21.0]<br>53.2 [15.6]<br>7.9 | 69.9 [20.5]<br>50.0 [14.7]<br>7.8 | 71.1 [20.8]<br>63.2 [18.5]<br>8.1 | 68.4 [20.0]<br>57.5 [16.9]<br>8.0 |

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions



Air

Gross Systems Performance Data  
RHPC Series

## HEATING PERFORMANCE DATA—RHPCYB072

| IDB                                                 |                   |                          | 60°F (15.6°C)      |                    |                    | 70°F (21.1°C)      |                    |                    | 80°F (26.7°C)      |                    |                    |
|-----------------------------------------------------|-------------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                           |                   |                          | 2700 [1274]        | 2350 [1109]        | 1950 [920]         | 2700 [1274]        | 2350 [1109]        | 1950 [920]         | 2700 [1274]        | 2350 [1109]        | 1950 [920]         |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F<br>[°C] | 0°F<br>[-17.8°C]  | Total BTUH [kW]<br>Power | 34.9 [10.2]<br>3.9 | 34.6 [10.1]<br>4.0 | 34.2 [10.0]<br>4.1 | 27.5 [8.1]<br>4.3  | 27.2 [8.0]<br>4.4  | 26.9 [7.9]<br>4.5  | 20.1 [5.9]<br>4.6  | 19.9 [5.8]<br>4.7  | 19.7 [5.8]<br>4.8  |
|                                                     | 5°F<br>[-15.0°C]  | Total BTUH [kW]<br>Power | 39.7 [11.6]<br>4.0 | 39.3 [11.5]<br>4.1 | 38.8 [11.4]<br>4.2 | 32.3 [9.5]<br>4.4  | 32.0 [9.4]<br>4.4  | 31.6 [9.3]<br>4.5  | 24.9 [7.3]<br>4.7  | 24.7 [7.2]<br>4.8  | 24.4 [7.2]<br>4.9  |
|                                                     | 10°F<br>[-12.2°C] | Total BTUH [kW]<br>Power | 44.5 [13.0]<br>4.1 | 44.0 [12.9]<br>4.2 | 43.5 [12.7]<br>4.3 | 37.1 [10.9]<br>4.4 | 36.7 [10.8]<br>4.5 | 36.3 [10.6]<br>4.6 | 29.7 [8.7]<br>4.8  | 29.4 [8.6]<br>4.9  | 29.0 [8.5]<br>5.0  |
|                                                     | 15°F<br>[-9.4°C]  | Total BTUH [kW]<br>Power | 49.3 [14.4]<br>4.2 | 48.8 [14.3]<br>4.3 | 48.2 [14.1]<br>4.3 | 41.9 [12.3]<br>4.5 | 41.4 [12.1]<br>4.6 | 40.9 [12.0]<br>4.7 | 34.5 [10.1]<br>4.9 | 34.1 [10.0]<br>5.0 | 33.7 [9.9]<br>5.1  |
|                                                     | 20°F<br>[-6.7°C]  | Total BTUH [kW]<br>Power | 54.1 [15.9]<br>4.3 | 53.5 [15.7]<br>4.3 | 52.9 [15.5]<br>4.4 | 46.7 [13.7]<br>4.6 | 46.2 [13.5]<br>4.7 | 45.6 [13.4]<br>4.8 | 39.3 [11.5]<br>5.0 | 38.9 [11.4]<br>5.1 | 38.4 [11.3]<br>5.2 |
|                                                     | 25°F<br>[-3.9°C]  | Total BTUH [kW]<br>Power | 58.9 [17.3]<br>4.3 | 58.2 [17.1]<br>4.4 | 57.5 [16.9]<br>4.5 | 51.5 [15.1]<br>4.7 | 50.9 [14.9]<br>4.8 | 50.3 [14.7]<br>4.9 | 44.0 [12.9]<br>5.1 | 43.6 [12.8]<br>5.2 | 43.1 [12.6]<br>5.3 |
|                                                     | 30°F<br>[-1.1°C]  | Total BTUH [kW]<br>Power | 63.6 [18.6]<br>4.4 | 63.0 [18.5]<br>4.5 | 62.2 [18.2]<br>4.6 | 56.2 [16.5]<br>4.8 | 55.6 [16.3]<br>4.9 | 55.0 [16.1]<br>5.0 | 48.8 [14.3]<br>5.1 | 48.3 [14.2]<br>5.2 | 47.7 [14.0]<br>5.4 |
|                                                     | 35°F<br>[1.7°C]   | Total BTUH [kW]<br>Power | 68.4 [20.0]<br>4.5 | 67.7 [19.8]<br>4.6 | 66.9 [19.6]<br>4.7 | 61.0 [17.9]<br>4.9 | 60.4 [17.7]<br>5.0 | 59.6 [17.5]<br>5.1 | 53.6 [15.7]<br>5.2 | 53.1 [15.6]<br>5.3 | 52.4 [15.4]<br>5.4 |
|                                                     | 40°F<br>[4.4°C]   | Total BTUH [kW]<br>Power | 73.2 [21.5]<br>4.6 | 72.4 [21.2]<br>4.7 | 71.6 [21.0]<br>4.8 | 65.8 [19.3]<br>5.0 | 65.1 [19.1]<br>5.1 | 64.3 [18.8]<br>5.2 | 58.4 [17.1]<br>5.3 | 57.8 [16.9]<br>5.4 | 57.1 [16.7]<br>5.5 |
|                                                     | 45°F<br>[7.2°C]   | Total BTUH [kW]<br>Power | 78.0 [22.9]<br>4.7 | 77.2 [22.6]<br>4.8 | 76.2 [22.3]<br>4.9 | 70.6 [20.7]<br>5.0 | 69.8 [20.5]<br>5.1 | 69.0 [20.2]<br>5.2 | 63.2 [18.5]<br>5.4 | 62.5 [18.3]<br>5.5 | 61.8 [18.1]<br>5.6 |
|                                                     | 50°F<br>[10.0°C]  | Total BTUH [kW]<br>Power | 82.8 [24.3]<br>4.8 | 81.9 [24.0]<br>4.9 | 80.9 [23.7]<br>5.0 | 75.4 [22.1]<br>5.1 | 74.6 [21.9]<br>5.2 | 73.7 [21.6]<br>5.3 | 68.0 [19.9]<br>5.5 | 67.2 [19.7]<br>5.6 | 66.4 [19.5]<br>5.7 |

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions



**3-6T—LOW STATIC—SIDEFLOW (203/230V)**

| Unit Model<br>(Tonnage) | Manufacturer<br>Recommended<br>Airflow Range<br>(Min/Max) CFM | Motor<br>HP [W] | Motor Speed             | CFM/<br>WATTS | External Static Pressure - Inches W.C. (kPa) |              |              |              |              |              |              |              |
|-------------------------|---------------------------------------------------------------|-----------------|-------------------------|---------------|----------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         |                                                               |                 |                         |               | 0.1<br>[.02]                                 | 0.2<br>[.05] | 0.3<br>[.07] | 0.4<br>[.10] | 0.5<br>[.12] | 0.6<br>[.15] | 0.7<br>[.17] | 0.8<br>[.20] |
| RHPCYB036 (3T)          | 1050/1350                                                     | 3/4 HP<br>[559] | Fan - Tap 1             | CFM           | 1444                                         | 1204         | 909          | 823          | 732          | 622          | 514          | 448          |
|                         |                                                               |                 |                         | WATTS         | 190                                          | 158          | 124          | 127          | 134          | 143          | 149          | 155          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 2                   | CFM           | 1592                                         | 1512         | 1441         | 1386         | 1315         | 1257         | 1198         | 1140         |
|                         |                                                               |                 |                         | WATTS         | 238                                          | 253          | 266          | 276          | 289          | 300          | 311          | 324          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 3                   | CFM           | 1827                                         | 1757         | 1687         | 1622         | 1571         | 1517         | 1447         | 1393         |
|                         |                                                               |                 |                         | WATTS         | 335                                          | 351          | 368          | 380          | 394          | 405          | 421          | 435          |
|                         |                                                               | 3/4 HP<br>[559] | Cooling -<br>Tap 4 *    | CFM           | 1492                                         | 1414         | 1342         | 1283         | 1212         | 1147         | 1079         | 1023         |
|                         |                                                               |                 |                         | WATTS         | 208                                          | 220          | 231          | 241          | 252          | 263          | 274          | 284          |
|                         |                                                               | 3/4 HP<br>[559] | High Speed -<br>Tap 5   | CFM           | 1737                                         | 1663         | 1585         | 1531         | 1478         | 1415         | 1354         | 1301         |
|                         |                                                               |                 |                         | WATTS         | 293                                          | 309          | 324          | 336          | 348          | 362          | 375          | 386          |
| RHPCYB048 (4T)          | 1400/1800                                                     | 3/4 HP<br>[559] | Fan - Tap 1             | CFM           | 1409                                         | 1170         | 969          | 891          | 828          | 740          | 668          | 602          |
|                         |                                                               |                 |                         | WATTS         | 177                                          | 145          | 129          | 137          | 144          | 154          | 160          | 168          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 2                   | CFM           | 1858                                         | 1803         | 1741         | 1676         | 1622         | 1572         | 1516         | 1456         |
|                         |                                                               |                 |                         | WATTS         | 348                                          | 363          | 379          | 392          | 404          | 417          | 432          | 445          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 3                   | CFM           | 1935                                         | 1870         | 1810         | 1752         | 1695         | 1645         | 1587         | 1540         |
|                         |                                                               |                 |                         | WATTS         | 381                                          | 400          | 413          | 430          | 443          | 455          | 471          | 484          |
|                         |                                                               | 3/4 HP<br>[559] | Cooling -<br>Tap 4 *    | CFM           | 1759                                         | 1686         | 1627         | 1575         | 1530         | 1482         | 1418         | 1366         |
|                         |                                                               |                 |                         | WATTS         | 321                                          | 337          | 350          | 362          | 375          | 387          | 401          | 412          |
|                         |                                                               | 3/4 HP<br>[559] | High Speed -<br>Tap 5   | CFM           | 2113                                         | 2059         | 2007         | 1948         | 1893         | 1844         | 1793         | 1748         |
|                         |                                                               |                 |                         | WATTS         | 491                                          | 507          | 524          | 541          | 557          | 570          | 586          | 600          |
| RHPCYB060 (5T)          | 1750/2250                                                     | 1 HP<br>[745]   | Fan - Tap 1             | CFM           | 1186                                         | 1107         | 1015         | 953          | 881          | 809          | 714          | 636          |
|                         |                                                               |                 |                         | WATTS         | 122                                          | 131          | 141          | 148          | 157          | 164          | 174          | 188          |
|                         |                                                               | 1 HP<br>[745]   | Tap 2                   | CFM           | 1719                                         | 1665         | 1597         | 1541         | 1482         | 1425         | 1360         | 1301         |
|                         |                                                               |                 |                         | WATTS         | 292                                          | 304          | 319          | 331          | 344          | 355          | 369          | 382          |
|                         |                                                               | 1 HP<br>[745]   | Tap 3                   | CFM           | 1944                                         | 1897         | 1827         | 1769         | 1717         | 1661         | 1609         | 1552         |
|                         |                                                               |                 |                         | WATTS         | 394                                          | 409          | 425          | 440          | 452          | 467          | 483          | 495          |
|                         |                                                               | 1 HP<br>[745]   | Cooling -<br>Tap 4 *    | CFM           | 2218                                         | 2161         | 2110         | 2060         | 2015         | 1969         | 1924         | 1877         |
|                         |                                                               |                 |                         | WATTS         | 584                                          | 606          | 623          | 638          | 654          | 672          | 684          | 699          |
|                         |                                                               | 1 HP<br>[745]   | High Speed -<br>Tap 5   | CFM           | 2365                                         | 2291         | 2241         | 2204         | 2161         | 2111         | 2065         | 2026         |
|                         |                                                               |                 |                         | WATTS         | 694                                          | 723          | 741          | 757          | 773          | 794          | 810          | 825          |
| RHPCYB072 (6T)          | 2100/2700                                                     | 1.2 HP<br>[895] | Fan/Low Heat -<br>Tap 1 | CFM           | 1384                                         | 1319         | 1249         | 1188         | 1127         | 1066         | 1006         | 947          |
|                         |                                                               |                 |                         | WATTS         | 192                                          | 204          | 215          | 225          | 240          | 245          | 255          | 265          |
|                         |                                                               | 1.2 HP<br>[895] | High Heat -<br>Tap 2    | CFM           | 1874                                         | 1833         | 1778         | 1730         | 1680         | 1630         | 1584         | 1539         |
|                         |                                                               |                 |                         | WATTS         | 421                                          | 435          | 450          | 466          | 480          | 495          | 510          | 525          |
|                         |                                                               | 1.2 HP<br>[895] | Low Cool -<br>Tap 3     | CFM           | 1546                                         | 1488         | 1427         | 1372         | 1316         | 1261         | 1203         | 1149         |
|                         |                                                               |                 |                         | WATTS         | 258                                          | 270          | 282          | 298          | 310          | 318          | 330          | 338          |
|                         |                                                               | 1.2 HP<br>[895] | High Cool -<br>Tap 4    | CFM           | 2456                                         | 2415         | 2336         | 2279         | 2280         | 2181         | 2158         | 2062         |
|                         |                                                               |                 |                         | WATTS         | 738                                          | 755          | 794          | 808          | 827          | 847          | 877          | 904          |
|                         |                                                               | 1.2 HP<br>[895] | High Speed -<br>Tap 5   | CFM           | 2363                                         | 2330         | 2280         | 2237         | 2198         | 2164         | 2110         | 2071         |
|                         |                                                               |                 |                         | WATTS         | 771                                          | 792          | 808          | 824          | 843          | 860          | 875          | 890          |

NOTES: \*Tap 4 - Factory Cooling Tap  
Pressure drops across the 3-5T CFM range (1050 - 2250)  
Wet coil: -0.09 inches W.C.  
Downflow: -0.1 inches W.C.  
Reheat coil: -0.09 inches W.C.

[ ] Designates Metric Conversions

### 3-6T—HIGH STATIC—SIDEFLOW (203/230V)

| Unit Model<br>(Tonnage) | Manufacturer<br>Recommended<br>Airflow Range<br>(Min/Max) CFM | Motor<br>HP (W)  | Motor Speed             | CFM/<br>WATTS | External Static Pressure - Inches W.C. (kPa) |              |              |              |             |              |              |              |
|-------------------------|---------------------------------------------------------------|------------------|-------------------------|---------------|----------------------------------------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
|                         |                                                               |                  |                         |               | 0.8<br>[.2]                                  | 0.9<br>[.22] | 1.0<br>[.25] | 1.1<br>[.27] | 1.2<br>[.3] | 1.3<br>[.32] | 1.4<br>[.35] | 1.5<br>[.37] |
| RHPCY8036 (3T)          | 1050/1350                                                     | 1.5 HP<br>[1119] | Fan - Tap 1             | CFM           | 636                                          | 561          | 490          | 419          | 366         | 305          | 247          | 175          |
|                         |                                                               |                  |                         | WATTS         | 224                                          | 231          | 237          | 243          | 249         | 256          | 261          | 268          |
|                         |                                                               | 1.5 HP<br>[1119] | Tap 2                   | CFM           | 1103                                         | 1044         | 981          | 920          | 860         | 797          | 738          | 682          |
|                         |                                                               |                  |                         | WATTS         | 371                                          | 382          | 392          | 403          | 412         | 420          | 428          | 437          |
|                         |                                                               | 1.5 HP<br>[1119] | Tap 3                   | CFM           | 1304                                         | 1247         | 1196         | 1140         | 1082        | 1020         | 965          | 908          |
|                         |                                                               |                  |                         | WATTS         | 463                                          | 476          | 487          | 497          | 510         | 521          | 533          | 540          |
|                         |                                                               | 1.5 HP<br>[1119] | Cooling -<br>Tap 4 *    | CFM           | 686                                          | 614          | 543          | 466          | 411         | 349          | 295          | 218          |
|                         |                                                               |                  |                         | WATTS         | 237                                          | 244          | 250          | 256          | 263         | 270          | 275          | 282          |
|                         |                                                               | 1.5 HP<br>[1119] | High Speed -<br>Tap 5   | CFM           | 1091                                         | 1032         | 967          | 906          | 846         | 784          | 724          | 669          |
|                         |                                                               |                  |                         | WATTS         | 366                                          | 377          | 387          | 397          | 406         | 415          | 423          | 431          |
| RHPCY8048 (4T)          | 1400/1800                                                     | 1.5 HP<br>[1119] | Fan - Tap 1             | CFM           | 1088                                         | 1026         | 956          | 888          | 828         | 770          | 711          | 657          |
|                         |                                                               |                  |                         | WATTS         | 363                                          | 371          | 383          | 394          | 404         | 415          | 423          | 430          |
|                         |                                                               | 1.5 HP<br>[1119] | Tap 2                   | CFM           | 1378                                         | 1328         | 1281         | 1231         | 1178        | 1124         | 1069         | 1010         |
|                         |                                                               |                  |                         | WATTS         | 504                                          | 516          | 527          | 540          | 550         | 563          | 578          | 594          |
|                         |                                                               | 1.5 HP<br>[1119] | Tap 3                   | CFM           | 1437                                         | 1384         | 1336         | 1286         | 1232        | 1184         | 1130         | 1069         |
|                         |                                                               |                  |                         | WATTS         | 534                                          | 547          | 559          | 572          | 584         | 595          | 611          | 624          |
|                         |                                                               | 1.5 HP<br>[1119] | Cooling -<br>Tap 4 *    | CFM           | 1022                                         | 955          | 880          | 813          | 754         | 694          | 633          | 580          |
|                         |                                                               |                  |                         | WATTS         | 338                                          | 345          | 357          | 367          | 376         | 385          | 394          | 401          |
|                         |                                                               | 1.5 HP<br>[1119] | High Speed -<br>Tap 5   | CFM           | 1490                                         | 1438         | 1389         | 1339         | 1287        | 1242         | 1190         | 1133         |
|                         |                                                               |                  |                         | WATTS         | 564                                          | 578          | 592          | 604          | 617         | 628          | 643          | 655          |
| RHPCY8060 (5T)          | 1750/2250                                                     | 1.5 HP<br>[1119] | Fan - Tap 1             | CFM           | 1227                                         | 1168         | 1107         | 1054         | 992         | 930          | 855          | 792          |
|                         |                                                               |                  |                         | WATTS         | 422                                          | 431          | 447          | 453          | 469         | 477          | 484          | 500          |
|                         |                                                               | 1.5 HP<br>[1119] | Tap 2                   | CFM           | 1227                                         | 1168         | 1107         | 1054         | 992         | 930          | 855          | 792          |
|                         |                                                               |                  |                         | WATTS         | 422                                          | 431          | 447          | 453          | 469         | 477          | 484          | 500          |
|                         |                                                               | 1.5 HP<br>[1119] | Tap 3                   | CFM           | 1545                                         | 1502         | 1463         | 1417         | 1370        | 1319         | 1266         | 1212         |
|                         |                                                               |                  |                         | WATTS         | 604                                          | 618          | 633          | 648          | 658         | 672          | 686          | 702          |
|                         |                                                               | 1.5 HP<br>[1119] | Cooling -<br>Tap 4 *    | CFM           | 1456                                         | 1416         | 1371         | 1321         | 1267        | 1215         | 1161         | 1113         |
|                         |                                                               |                  |                         | WATTS         | 547                                          | 561          | 575          | 589          | 601         | 613          | 626          | 639          |
|                         |                                                               | 1.5 HP<br>[1119] | High Speed -<br>Tap 5   | CFM           | 1686                                         | 1642         | 1605         | 1564         | 1523        | 1479         | 1428         | 1380         |
|                         |                                                               |                  |                         | WATTS         | 707                                          | 721          | 736          | 750          | 765         | 781          | 795          | 807          |
| RHPCY8072 (6T)          | 2100/2700                                                     | 1.2 HP<br>[895]  | Fan/Low Heat -<br>Tap 1 | CFM           | 1237                                         | 1182         | 1137         | 1076         | 996         | 951          | 905          | 853          |
|                         |                                                               |                  |                         | WATTS         | 364                                          | 373          | 386          | 396          | 405         | 409          | 421          | 431          |
|                         |                                                               | 1.2 HP<br>[895]  | High Heat -<br>Tap 2    | CFM           | 2043                                         | 2004         | 1953         | 1917         | 1879        | 1828         | 1783         | 1750         |
|                         |                                                               |                  |                         | WATTS         | 834                                          | 850          | 861          | 876          | 891         | 906          | 925          | 938          |
|                         |                                                               | 1.2 HP<br>[895]  | Low Cool -<br>Tap 3     | CFM           | 1149                                         | 1082         | 1030         | 969          | 891         | 837          | 781          | 728          |
|                         |                                                               |                  |                         | WATTS         | 338                                          | 345          | 357          | 365          | 374         | 383          | 393          | 403          |
|                         |                                                               | 1.2 HP<br>[895]  | High Cool -<br>Tap 4    | CFM           | 2062                                         | 2026         | 2004         | 1945         | 1907        | 1873         | 1836         | 1804         |
|                         |                                                               |                  |                         | WATTS         | 904                                          | 926          | 946          | 967          | 1008        | 1030         | 1057         | 1082         |
|                         |                                                               | 1.2 HP<br>[895]  | High Speed -<br>Tap 5   | CFM           | 2462                                         | 2416         | 2371         | 2337         | 2294        | 2251         | 2214         | 2165         |
|                         |                                                               |                  |                         | WATTS         | 1053                                         | 1063         | 1078         | 1085         | 1100        | 1113         | 1121         | 1135         |

NOTES: \*Tap 4 - Factory Cooling Tap  
 Pressure drops across the 3-5T CFM range (1050 - 2250)  
 Wet coil: -0.09 Inches W.C.  
 Downflow: -0.1 Inches W.C.  
 Reheat coil: -0.09 Inches W.C.

[ ] Designates Metric Conversions

# 3-6T—LOW STATIC—SIDEFLOW (460V)

| Unit Model<br>(Tonnage) | Manufacturer<br>Recommended<br>Airflow Range<br>(Min/Max) CFM | Motor<br>HP [W] | Motor Speed             | CFM/<br>WATTS | External Static Pressure - Inches W.C. (kPa) |              |              |              |              |              |              |              |
|-------------------------|---------------------------------------------------------------|-----------------|-------------------------|---------------|----------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         |                                                               |                 |                         |               | 0.1<br>[.02]                                 | 0.2<br>[.05] | 0.3<br>[.07] | 0.4<br>[.10] | 0.5<br>[.12] | 0.6<br>[.15] | 0.7<br>[.17] | 0.8<br>[.20] |
| RHPCYB036 (3T)          | 1050/1350                                                     | 3/4 HP<br>[559] | Fan - Tap 1             | CFM           | 957                                          | 867          | 777          | 686          | 562          | 477          | 388          | 313          |
|                         |                                                               |                 |                         | WATTS         | 94                                           | 102          | 110          | 117          | 125          | 130          | 135          | 140          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 2                   | CFM           | 1172                                         | 1095         | 1019         | 942          | 865          | 789          | 696          | 621          |
|                         |                                                               |                 |                         | WATTS         | 145                                          | 155          | 164          | 174          | 182          | 190          | 199          | 206          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 3                   | CFM           | 1697                                         | 1641         | 1586         | 1530         | 1473         | 1413         | 1364         | 1314         |
|                         |                                                               |                 |                         | WATTS         | 365                                          | 378          | 390          | 404          | 418          | 432          | 444          | 457          |
|                         |                                                               | 3/4 HP<br>[559] | Cooling -<br>Tap 4 *    | CFM           | 1472                                         | 1393         | 1331         | 1265         | 1181         | 1123         | 1065         | 1007         |
|                         |                                                               |                 |                         | WATTS         | 195                                          | 208          | 219          | 231          | 243          | 253          | 264          | 273          |
|                         |                                                               | 3/4 HP<br>[559] | High Speed -<br>Tap 5   | CFM           | 1612                                         | 1551         | 1493         | 1435         | 1373         | 1316         | 1261         | 1205         |
|                         |                                                               |                 |                         | WATTS         | 316                                          | 329          | 341          | 353          | 367          | 379          | 392          | 404          |
| RHPCYB048 (4T)          | 1400/1800                                                     | 3/4 HP<br>[559] | Fan - Tap 1             | CFM           | 1061                                         | 965          | 882          | 801          | 707          | 545          | 445          | 359          |
|                         |                                                               |                 |                         | WATTS         | 114                                          | 124          | 132          | 140          | 148          | 154          | 160          | 166          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 2                   | CFM           | 1319                                         | 1247         | 1172         | 1105         | 1039         | 962          | 884          | 807          |
|                         |                                                               |                 |                         | WATTS         | 189                                          | 200          | 211          | 221          | 231          | 242          | 250          | 259          |
|                         |                                                               | 3/4 HP<br>[559] | Tap 3                   | CFM           | 1737                                         | 1684         | 1624         | 1564         | 1509         | 1453         | 1400         | 1345         |
|                         |                                                               |                 |                         | WATTS         | 374                                          | 391          | 404          | 417          | 430          | 445          | 458          | 471          |
|                         |                                                               | 3/4 HP<br>[559] | Cooling -<br>Tap 4 *    | CFM           | 1644                                         | 1579         | 1518         | 1456         | 1392         | 1335         | 1278         | 1222         |
|                         |                                                               |                 |                         | WATTS         | 321                                          | 335          | 348          | 360          | 373          | 386          | 398          | 411          |
|                         |                                                               | 3/4 HP<br>[559] | High Speed -<br>Tap 5   | CFM           | 1923                                         | 1862         | 1813         | 1763         | 1711         | 1657         | 1610         | 1556         |
|                         |                                                               |                 |                         | WATTS         | 485                                          | 500          | 514          | 532          | 545          | 563          | 576          | 594          |
| RHPCYB060 (5T)          | 1750/2250                                                     | 1 HP<br>[745]   | Fan - Tap 1             | CFM           | 1107                                         | 1017         | 936          | 865          | 793          | 711          | 592          | 527          |
|                         |                                                               |                 |                         | WATTS         | 126                                          | 135          | 143          | 151          | 158          | 166          | 174          | 181          |
|                         |                                                               | 1 HP<br>[745]   | Tap 2                   | CFM           | 1244                                         | 1171         | 1103         | 1024         | 956          | 893          | 825          | 747          |
|                         |                                                               |                 |                         | WATTS         | 168                                          | 177          | 188          | 195          | 203          | 212          | 221          | 230          |
|                         |                                                               | 1 HP<br>[745]   | Tap 3                   | CFM           | 1827                                         | 1770         | 1718         | 1664         | 1607         | 1556         | 1497         | 1455         |
|                         |                                                               |                 |                         | WATTS         | 428                                          | 442          | 455          | 469          | 482          | 494          | 506          | 518          |
|                         |                                                               | 1 HP<br>[745]   | Cooling -<br>Tap 4 *    | CFM           | 2078                                         | 2041         | 1991         | 1925         | 1867         | 1827         | 1780         | 1731         |
|                         |                                                               |                 |                         | WATTS         | 606                                          | 620          | 635          | 651          | 667          | 680          | 695          | 709          |
|                         |                                                               | 1 HP<br>[745]   | High Speed -<br>Tap 5   | CFM           | 2192                                         | 2151         | 2105         | 2056         | 2005         | 1961         | 1923         | 1874         |
|                         |                                                               |                 |                         | WATTS         | 720                                          | 737          | 752          | 767          | 784          | 801          | 815          | 830          |
| RHPCYB072 (6T)          | 2100/2700                                                     | 1.2 HP<br>[895] | Fan/Low Heat -<br>Tap 1 | CFM           | 1384                                         | 1319         | 1249         | 1188         | 1127         | 1066         | 1006         | 947          |
|                         |                                                               |                 |                         | WATTS         | 192                                          | 204          | 215          | 225          | 240          | 245          | 255          | 265          |
|                         |                                                               | 1.2 HP<br>[895] | High Heat -<br>Tap 2    | CFM           | 1863                                         | 1821         | 1765         | 1717         | 1650         | 1617         | 1571         | 1526         |
|                         |                                                               |                 |                         | WATTS         | 413                                          | 428          | 442          | 459          | 474          | 488          | 503          | 518          |
|                         |                                                               | 1.2 HP<br>[895] | Low Cool -<br>Tap 3     | CFM           | 1546                                         | 1488         | 1427         | 1372         | 1316         | 1261         | 1203         | 1149         |
|                         |                                                               |                 |                         | WATTS         | 258                                          | 270          | 282          | 298          | 310          | 318          | 330          | 338          |
|                         |                                                               | 1.2 HP<br>[895] | High Cool -<br>Tap 4    | CFM           | 2368                                         | 2304         | 2267         | 2191         | 2126         | 2042         | 2033         | 1921         |
|                         |                                                               |                 |                         | WATTS         | 677                                          | 701          | 710          | 729          | 752          | 770          | 785          | 806          |
|                         |                                                               | 1.2 HP<br>[895] | High Speed -<br>Tap 5   | CFM           | 2363                                         | 2330         | 2280         | 2237         | 2198         | 2164         | 2110         | 2071         |
|                         |                                                               |                 |                         | WATTS         | 771                                          | 792          | 808          | 824          | 843          | 860          | 875          | 890          |

NOTES: \*Tap 4 - Factory Cooling Tap  
 Pressure drops across the 3-5T CFM range (1050 - 2250)  
 Wet coil: -0.09 Inches W.C.  
 Downflow: -0.1 Inches W.C.  
 Reheat coil: -0.09 Inches W.C.

[ ] Designates Metric Conversions

### 3-6T—HIGH STATIC—SIDEFLOW (460V)

| Unit Model<br>(Tonnage) | Manufacturer<br>Recommended<br>Airflow Range<br>(Min/Max) CFM | Motor<br>HP (W) | Motor Speed             | CFM/<br>WATTS | External Static Pressure - Inches W.C. (kPa) |              |              |              |             |              |              |              |
|-------------------------|---------------------------------------------------------------|-----------------|-------------------------|---------------|----------------------------------------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
|                         |                                                               |                 |                         |               | 0.8<br>[.2]                                  | 0.9<br>[.22] | 1.0<br>[.25] | 1.1<br>[.27] | 1.2<br>[.3] | 1.3<br>[.32] | 1.4<br>[.35] | 1.5<br>[.37] |
| RHPCYB036 (3T)          | 1050/1350                                                     | 1 HP<br>[745]   | Fan - Tap 1             | CFM           | 729                                          | 644          | 554          | 499          | 438         | 386          | 329          | 278          |
|                         |                                                               |                 |                         | WATTS         | 226                                          | 233          | 240          | 245          | 252         | 257          | 262          | 267          |
|                         |                                                               | 1 HP<br>[745]   | Tap 2                   | CFM           | 729                                          | 644          | 554          | 499          | 438         | 386          | 329          | 278          |
|                         |                                                               |                 |                         | WATTS         | 226                                          | 233          | 240          | 245          | 252         | 257          | 262          | 267          |
|                         |                                                               | 1 HP<br>[745]   | Tap 3                   | CFM           | 1465                                         | 1421         | 1372         | 1320         | 1272        | 1226         | 1176         | 1122         |
|                         |                                                               |                 |                         | WATTS         | 535                                          | 547          | 559          | 571          | 583         | 593          | 603          | 615          |
|                         |                                                               | 1 HP<br>[745]   | Cooling -<br>Tap 4 *    | CFM           | 930                                          | 860          | 783          | 718          | 643         | 586          | 530          | 476          |
|                         |                                                               |                 |                         | WATTS         | 286                                          | 294          | 304          | 311          | 319         | 326          | 333          | 339          |
|                         |                                                               | 1 HP<br>[745]   | High Speed -<br>Tap 5   | CFM           | 1345                                         | 1292         | 1239         | 1184         | 1135        | 1082         | 1016         | 947          |
|                         |                                                               |                 |                         | WATTS         | 460                                          | 472          | 483          | 493          | 503         | 513          | 525          | 537          |
| RHPCYB048 (4T)          | 1400/1800                                                     | 1 HP<br>[745]   | Fan - Tap 1             | CFM           | 871                                          | 794          | 722          | 654          | 580         | 526          | 466          | 413          |
|                         |                                                               |                 |                         | WATTS         | 267                                          | 275          | 283          | 290          | 297         | 303          | 310          | 315          |
|                         |                                                               | 1 HP<br>[745]   | Tap 2                   | CFM           | 1344                                         | 1292         | 1239         | 1192         | 1138        | 1084         | 1007         | 953          |
|                         |                                                               |                 |                         | WATTS         | 458                                          | 470          | 481          | 490          | 500         | 510          | 525          | 534          |
|                         |                                                               | 1 HP<br>[745]   | Tap 3                   | CFM           | 1514                                         | 1464         | 1415         | 1374         | 1323        | 1275         | 1228         | 1184         |
|                         |                                                               |                 |                         | WATTS         | 561                                          | 576          | 589          | 600          | 611         | 622          | 633          | 645          |
|                         |                                                               | 1 HP<br>[745]   | Cooling -<br>Tap 4 *    | CFM           | 1235                                         | 1182         | 1132         | 1079         | 1019        | 950          | 886          | 828          |
|                         |                                                               |                 |                         | WATTS         | 407                                          | 418          | 427          | 437          | 448         | 459          | 469          | 478          |
|                         |                                                               | 1 HP<br>[745]   | High Speed -<br>Tap 5   | CFM           | 1589                                         | 1545         | 1497         | 1463         | 1413        | 1367         | 1317         | 1275         |
|                         |                                                               |                 |                         | WATTS         | 618                                          | 633          | 647          | 660          | 672         | 683          | 695          | 705          |
| RHPCYB060 (5T)          | 1750/2250                                                     | 1.2 HP<br>[895] | Fan - Tap 1             | CFM           | 1091                                         | 1034         | 983          | 924          | 865         | 790          | 724          | 666          |
|                         |                                                               |                 |                         | WATTS         | 343                                          | 353          | 359          | 371          | 380         | 387          | 396          | 404          |
|                         |                                                               | 1.2 HP<br>[895] | Tap 2                   | CFM           | 1091                                         | 1034         | 983          | 924          | 865         | 790          | 724          | 666          |
|                         |                                                               |                 |                         | WATTS         | 343                                          | 353          | 359          | 371          | 380         | 387          | 396          | 404          |
|                         |                                                               | 1.2 HP<br>[895] | Tap 3                   | CFM           | 1841                                         | 1794         | 1748         | 1703         | 1657        | 1615         | 1578         | 1538         |
|                         |                                                               |                 |                         | WATTS         | 794                                          | 809          | 826          | 836          | 847         | 859          | 870          | 878          |
|                         |                                                               | 1.2 HP<br>[895] | Cooling -<br>Tap 4 *    | CFM           | 1762                                         | 1714         | 1669         | 1624         | 1580        | 1538         | 1496         | 1459         |
|                         |                                                               |                 |                         | WATTS         | 736                                          | 749          | 763          | 774          | 786         | 797          | 807          | 816          |
|                         |                                                               | 1.2 HP<br>[895] | High Speed -<br>Tap 5   | CFM           | 2046                                         | 2004         | 1970         | 1921         | 1880        | 1835         | 1801         | 1753         |
|                         |                                                               |                 |                         | WATTS         | 980                                          | 997          | 1003         | 1025         | 1045        | 1059         | 1072         | 1090         |
| RHPCYB072 (6T)          | 2100/2700                                                     | 1.2 HP<br>[895] | Fan/Low Heat -<br>Tap 1 | CFM           | 1237                                         | 1182         | 1137         | 1076         | 996         | 961          | 906          | 853          |
|                         |                                                               |                 |                         | WATTS         | 364                                          | 373          | 386          | 396          | 405         | 409          | 421          | 431          |
|                         |                                                               | 1.2 HP<br>[895] | High Heat -<br>Tap 2    | CFM           | 2043                                         | 2004         | 1953         | 1917         | 1879        | 1828         | 1783         | 1750         |
|                         |                                                               |                 |                         | WATTS         | 834                                          | 850          | 861          | 876          | 891         | 906          | 925          | 938          |
|                         |                                                               | 1.2 HP<br>[895] | Low Cool -<br>Tap 3     | CFM           | 1149                                         | 1082         | 1030         | 969          | 891         | 837          | 781          | 728          |
|                         |                                                               |                 |                         | WATTS         | 338                                          | 345          | 357          | 365          | 374         | 383          | 393          | 403          |
|                         |                                                               | 1.2 HP<br>[895] | High Cool -<br>Tap 4    | CFM           | 1921                                         | 1873         | 1780         | 1709         | 1739        | 1626         | 1598         | 1593         |
|                         |                                                               |                 |                         | WATTS         | 806                                          | 809          | 827          | 853          | 864         | 882          | 886          | 896          |
|                         |                                                               | 1.2 HP<br>[895] | High Speed -<br>Tap 5   | CFM           | 2462                                         | 2416         | 2371         | 2337         | 2294        | 2251         | 2214         | 2165         |
|                         |                                                               |                 |                         | WATTS         | 1053                                         | 1063         | 1078         | 1085         | 1100        | 1113         | 1121         | 1135         |

NOTES: \*Tap 4 - Factory Cooling Tap  
 Pressure drops across the 3-5T CFM range (1050 - 2250)  
 Wet coil: -0.09 Inches W.C.  
 Downflow: -0.1 Inches W.C.  
 Reheat coil: -0.09 Inches W.C.

[ ] Designates Metric Conversions

**ELECTRICAL DATA – RHPCYB SERIES WITHOUT POWERED EXHAUST**

|                  |                                            | 036ACT  | 036ACU  | 036ADT  | 036ADU  | 036AJT  |
|------------------|--------------------------------------------|---------|---------|---------|---------|---------|
| Unit Information | Unit Operating Voltage Range               | 187-253 | 187-253 | 414-506 | 414-506 | 187-253 |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Hz                                         | 60      | 60      | 60      | 60      | 60      |
|                  | Minimum Circuit Ampacity                   | 23      | 28      | 11      | 12      | 29      |
|                  | Minimum Overcurrent Protection Device Size | 30      | 35      | 15      | 15      | 35      |
|                  | Maximum Overcurrent Protection Device Size | 30      | 40      | 15      | 15      | 40      |
| Compressor Motor | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Amps (RLA), Comp. 1                        | 12.2    | 12.2    | 5.8     | 5.8     | 16.7    |
|                  | Amps (LRA), Comp. 1                        | 97.5    | 97.5    | 44.3    | 44.3    | 93.5    |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/5     | 1/5     | 1/5     | 1/5     | 1/5     |
|                  | Amps (FLA, each)                           | 1.2     | 1.2     | 0.8     | 0.8     | 1.2     |
|                  | Amps (LRA, each)                           | 2.3     | 2.3     | 1.4     | 1.4     | 2.3     |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 3/4     | 1-1/2   | 3/4     | 1       | 3/4     |
|                  | Amps (FLA, each)                           | 6       | 11.5    | 2.7     | 3.5     | 6       |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |

## ELECTRICAL DATA – RHPCYB SERIES WITH POWERED EXHAUST

|                  |                                            | 036ACT  | 036ACU  | 036ADT  | 036ADU  | 036AJT  |
|------------------|--------------------------------------------|---------|---------|---------|---------|---------|
| Unit Information | Unit Operating Voltage Range               | 187-253 | 187-253 | 414-506 | 414-506 | 187-253 |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Hz                                         | 60      | 60      | 60      | 60      | 60      |
|                  | Minimum Circuit Ampacity                   | 26      | 32      | 13      | 14      | 32      |
|                  | Minimum Overcurrent Protection Device Size | 30      | 35      | 15      | 20      | 40      |
|                  | Maximum Overcurrent Protection Device Size | 35      | 40      | 15      | 20      | 45      |
| Compressor Motor | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Amps (RLA), Comp. 1                        | 12.2    | 12.2    | 5.8     | 5.8     | 16.7    |
|                  | Amps (LRA), Comp. 1                        | 97.5    | 97.5    | 44.3    | 44.3    | 93.5    |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/5     | 1/5     | 1/5     | 1/5     | 1/5     |
|                  | Amps (FLA, each)                           | 1.2     | 1.2     | 0.8     | 0.8     | 1.2     |
|                  | Amps (LRA, each)                           | 2.3     | 2.3     | 1.4     | 1.4     | 2.3     |
|                  |                                            |         |         |         |         |         |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 3/4     | 1-1/2   | 3/4     | 1       | 3/4     |
|                  | Amps (FLA, each)                           | 6       | 11.5    | 2.7     | 3.5     | 6       |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |

**ELECTRICAL DATA – RHPCYB SERIES WITHOUT POWERED EXHAUST**

|                         |                                            | <b>048ACT</b> | <b>048ACU</b> | <b>048ADT</b> | <b>048ADU</b> | <b>048AJT</b> |
|-------------------------|--------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>Unit Information</b> | Unit Operating Voltage Range               | 187-253       | 187-253       | 414-506       | 414-506       | 187-253       |
|                         | Volts                                      | 208/230       | 208/230       | 460           | 460           | 208/230       |
|                         | Phase                                      | 3             | 3             | 3             | 3             | 1             |
|                         | Hz                                         | 60            | 60            | 60            | 60            | 60            |
|                         | Minimum Circuit Ampacity                   | 25            | 30            | 12            | 13            | 37            |
|                         | Minimum Overcurrent Protection Device Size | 30            | 35            | 15            | 15            | 45            |
|                         | Maximum Overcurrent Protection Device Size | 35            | 40            | 15            | 15            | 50            |
| <b>Compressor Motor</b> | No.                                        | 1             | 1             | 1             | 1             | 1             |
|                         | Volts                                      | 208/230       | 208/230       | 460           | 460           | 208/230       |
|                         | Phase                                      | 3             | 3             | 3             | 3             | 1             |
|                         | Amps (RLA), Comp. 1                        | 12.8          | 12.8          | 6             | 6             | 22.4          |
|                         | Amps (LRA), Comp. 1                        | 120.4         | 120.4         | 49.4          | 49.4          | 126           |
| <b>Condenser Motor</b>  | No.                                        | 1             | 1             | 1             | 1             | 1             |
|                         | Volts                                      | 208/230       | 208/230       | 460           | 460           | 208/230       |
|                         | Phase                                      | 1             | 1             | 1             | 1             | 1             |
|                         | HP                                         | 1/2           | 1/2           | 1/2           | 1/2           | 1/2           |
|                         | Amps (FLA, each)                           | 2.3           | 2.3           | 1.5           | 1.5           | 2.3           |
|                         | Amps (LRA, each)                           | 5.1           | 5.1           | 3.1           | 3.1           | 5.1           |
| <b>Evaporator Fan</b>   | No.                                        | 1             | 1             | 1             | 1             | 1             |
|                         | Volts                                      | 208/230       | 208/230       | 460           | 460           | 208/230       |
|                         | Phase                                      | 1             | 1             | 1             | 1             | 1             |
|                         | HP                                         | 3/4           | 1-1/2         | 3/4           | 1             | 3/4           |
|                         | Amps (FLA, each)                           | 6             | 11.5          | 2.7           | 3.5           | 6             |
|                         | Amps (LRA, each)                           | N/A           | N/A           | N/A           | N/A           | N/A           |

## ELECTRICAL DATA – RHPCYB SERIES WITH POWERED EXHAUST

|                  |                                            | 048ACT  | 048ACU  | 048ADT  | 048ADU  | 048AJT  |
|------------------|--------------------------------------------|---------|---------|---------|---------|---------|
| Unit Information | Unit Operating Voltage Range               | 187-253 | 187-253 | 414-506 | 414-506 | 187-253 |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Hz                                         | 60      | 60      | 60      | 60      | 60      |
|                  | Minimum Circuit Ampacity                   | 28      | 33      | 14      | 15      | 40      |
|                  | Minimum Overcurrent Protection Device Size | 35      | 40      | 20      | 20      | 45      |
| Compressor Motor | Maximum Overcurrent Protection Device Size | 40      | 45      | 20      | 20      | 60      |
|                  | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Amps (RLA), Comp. 1                        | 12.8    | 12.8    | 6       | 6       | 22.4    |
|                  | Amps (LRA), Comp. 1                        | 120.4   | 120.4   | 49.4    | 49.4    | 126     |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/2     | 1/2     | 1/2     | 1/2     | 1/2     |
|                  | Amps (FLA, each)                           | 2.3     | 2.3     | 1.5     | 1.5     | 2.3     |
|                  | Amps (LRA, each)                           | 5.1     | 5.1     | 3.1     | 3.1     | 5.1     |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 3/4     | 1-1/2   | 3/4     | 1       | 3/4     |
|                  | Amps (FLA, each)                           | 6       | 11.5    | 2.7     | 3.5     | 6       |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |

**ELECTRICAL DATA – RHPCYB SERIES WITHOUT POWERED EXHAUST**

|                  |                                            | D60ACT  | D60ACU  | D60ADT  | D60ADU  | D60AJT  |
|------------------|--------------------------------------------|---------|---------|---------|---------|---------|
| Unit Information | Unit Operating Voltage Range               | 187-253 | 187-253 | 414-506 | 414-506 | 187-253 |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Hz                                         | 60      | 60      | 60      | 60      | 60      |
|                  | Minimum Circuit Ampacity                   | 33      | 37      | 15      | 15      | 43      |
|                  | Minimum Overcurrent Protection Device Size | 40      | 45      | 20      | 20      | 50      |
|                  | Maximum Overcurrent Protection Device Size | 45      | 50      | 20      | 20      | 60      |
| Compressor Motor | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Amps (RLA), Comp. 1                        | 16      | 16      | 7.1     | 7.1     | 23.7    |
|                  | Amps (LRA), Comp. 1                        | 156.4   | 156.4   | 58.1    | 58.1    | 157     |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/2     | 1/2     | 1/2     | 1/2     | 1/2     |
|                  | Amps (FLA, each)                           | 5.3     | 5.3     | 2.3     | 2.3     | 5.3     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1       | 1-1/2   | 1       | 1-1/5   | 1       |
|                  | Amps (FLA, each)                           | 7.6     | 11.5    | 3.5     | 3.7     | 7.6     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |

## ELECTRICAL DATA – RHPCYB SERIES WITH POWERED EXHAUST

|                  |                                            | 060ACT  | 060ACU  | 060ADT  | 060ADU  | 060AJT  |
|------------------|--------------------------------------------|---------|---------|---------|---------|---------|
| Unit Information | Unit Operating Voltage Range               | 187-253 | 187-253 | 414-506 | 414-506 | 187-253 |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Hz                                         | 60      | 60      | 60      | 60      | 60      |
|                  | Minimum Circuit Ampacity                   | 36      | 40      | 17      | 17      | 46      |
|                  | Minimum Overcurrent Protection Device Size | 40      | 45      | 20      | 20      | 60      |
|                  | Maximum Overcurrent Protection Device Size | 50      | 50      | 20      | 20      | 60      |
| Compressor Motor | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 3       | 3       | 3       | 3       | 1       |
|                  | Amps (RLA), Comp. 1                        | 16      | 16      | 7.1     | 7.1     | 23.7    |
|                  | Amps (LRA), Comp. 1                        | 156.4   | 156.4   | 58.1    | 58.1    | 157     |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/2     | 1/2     | 1/2     | 1/2     | 1/2     |
|                  | Amps (FLA, each)                           | 5.3     | 5.3     | 2.3     | 2.3     | 5.3     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |
|                  |                                            |         |         |         |         |         |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     | 208/230 |
|                  | Phase                                      | 1       | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1       | 1-1/2   | 1       | 1-1/5   | 1       |
|                  | Amps (FLA, each)                           | 7.6     | 11.5    | 3.5     | 3.7     | 7.6     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     | N/A     |

**ELECTRICAL DATA – RHPCYB SERIES WITHOUT POWERED EXHAUST**

|                  |                                            | 072ACT  | 072ACU  | 072ADT  | 072ADU  |
|------------------|--------------------------------------------|---------|---------|---------|---------|
| Unit Information | 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                   | 38      | 38      | 18      | 18      |
|                  | Minimum Overcurrent Protection Device Size | 45      | 45      | 20      | 20      |
|                  | Maximum Overcurrent Protection Device Size | 50      | 50      | 25      | 25      |
| Compressor Motor | No.                                        | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 3       | 3       | 3       | 3       |
|                  | Amps (RLA), Comp. 1                        | 19.2    | 19.2    | 9.1     | 9.1     |
|                  | Amps (LRA), Comp. 1                        | 162     | 162     | 70.8    | 70.8    |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/2     | 1/2     | 1/2     | 1/2     |
|                  | Amps (FLA, each)                           | 5.3     | 5.3     | 2.3     | 2.3     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1-1/5   | 1-1/5   | 1-1/5   | 1-1/5   |
|                  | Amps (FLA, each)                           | 8.5     | 8.5     | 3.7     | 3.7     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     |

## ELECTRICAL DATA – RHPCYB SERIES WITH POWERED EXHAUST

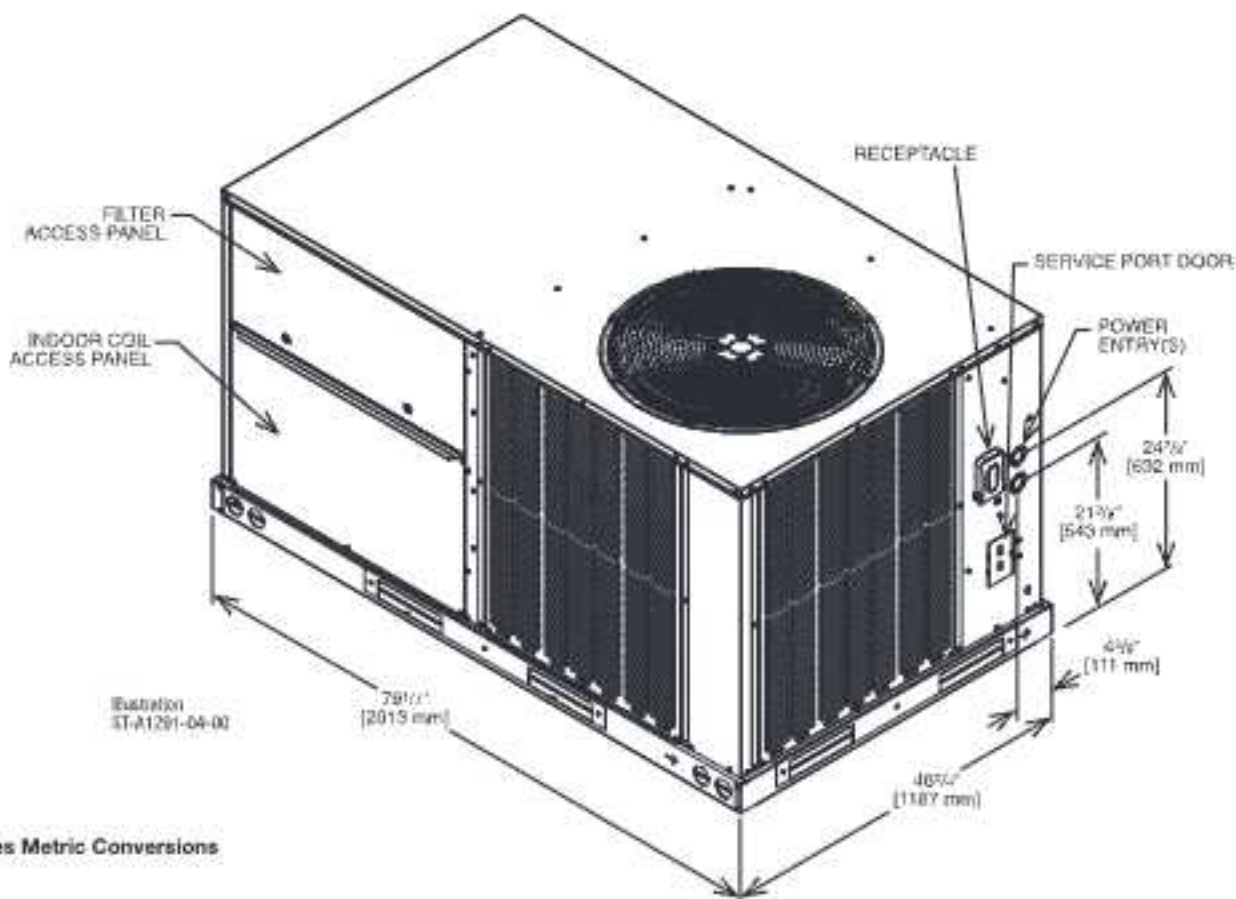
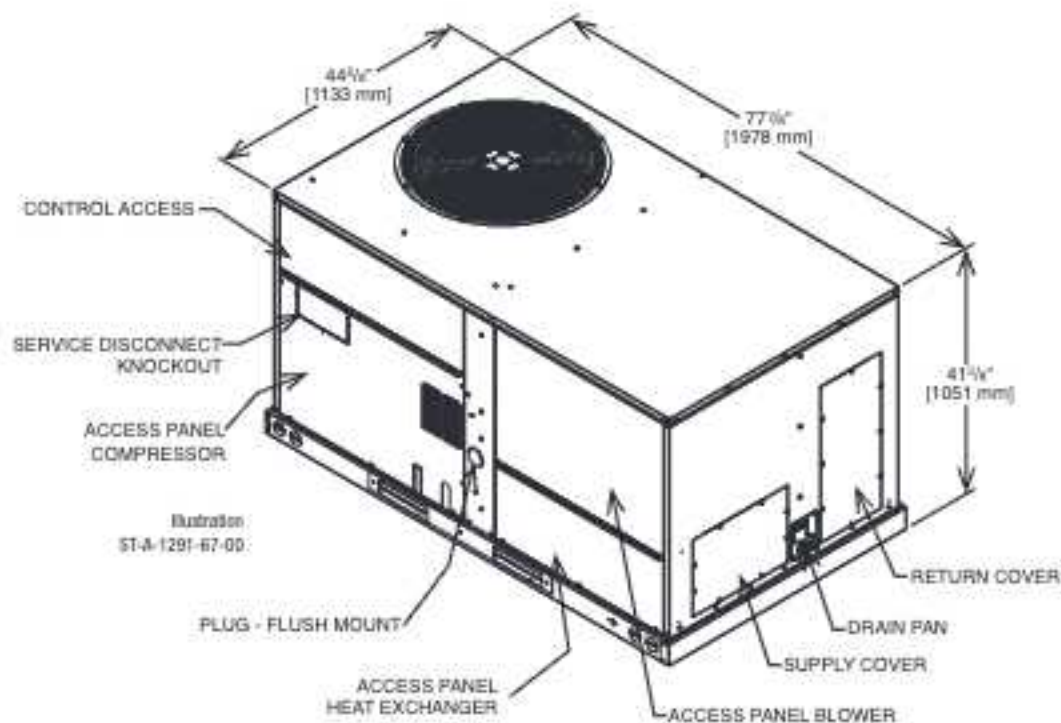
|                  |                                            | 072ACT  | 072ACU  | 072ADT  | 072ADU  |
|------------------|--------------------------------------------|---------|---------|---------|---------|
| Unit Information | Unit Operating Voltage Range               | 187-253 | 187-253 | 414-506 | 414-506 |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 3       | 3       | 3       | 3       |
|                  | Hz                                         | 60      | 60      | 60      | 60      |
|                  | Minimum Circuit Ampacity                   | 41      | 41      | 20      | 20      |
|                  | Minimum Overcurrent Protection Device Size | 50      | 50      | 25      | 25      |
|                  | Maximum Overcurrent Protection Device Size | 60      | 60      | 25      | 25      |
| Compressor Motor | No.                                        | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 3       | 3       | 3       | 3       |
|                  | Amps (RLA), Comp. 1                        | 19.2    | 19.2    | 9.1     | 9.1     |
|                  | Amps (LRA), Comp. 1                        | 162     | 162     | 70.8    | 70.8    |
| Condenser Motor  | No.                                        | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1/2     | 1/2     | 1/2     | 1/2     |
|                  | Amps (FLA, each)                           | 5.3     | 5.3     | 2.3     | 2.3     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     |
| Evaporator Fan   | No.                                        | 1       | 1       | 1       | 1       |
|                  | Volts                                      | 208/230 | 208/230 | 460     | 460     |
|                  | Phase                                      | 1       | 1       | 1       | 1       |
|                  | HP                                         | 1-1/5   | 1-1/5   | 1-1/5   | 1-1/5   |
|                  | Amps (FLA, each)                           | 8.5     | 8.5     | 3.7     | 3.7     |
|                  | Amps (LRA, each)                           | N/A     | N/A     | N/A     | N/A     |

| 208/230V, Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application |                   |                                  |           |                               |                                                                   |                                   |                                                                       |                                     |                                                 |                                                                           |                                                |                                                                                    |  |
|---------------------------------------------------------------------------------------------|-------------------|----------------------------------|-----------|-------------------------------|-------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------|-------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------|--|
| Single Power Supply for Both Unit and Heater Kit                                            |                   |                                  |           |                               |                                                                   |                                   | Separate Power Supply for Both Unit and Heater Kit                    |                                     |                                                 |                                                                           |                                                |                                                                                    |  |
| Unit Model Number<br>RHPCYS                                                                 | Heater Kit        |                                  |           | Air Conditioner               |                                                                   |                                   | Heater Kit                                                            |                                     |                                                 | Air Conditioner                                                           |                                                |                                                                                    |  |
|                                                                                             | Model No.<br>RXJ- | Rated Heater<br>KW @<br>208/230V | FLA       | Unit<br>Min. Ckt.<br>Ampacity | Unit Min.<br>Ckt. Ampacity<br>With Optional<br>Powered<br>Exhaust | Max. Fuse<br>or Ckt.<br>Bkr. Size | Max. Fuse or<br>Ckt. Bkr. Size<br>With Optional<br>Powered<br>Exhaust | Heater Kit<br>Min. Ckt.<br>Ampacity | Heater Kit<br>Max. Fuse<br>or Ckt.<br>Bkr. Size | Air Cond.<br>Min. Ckt.<br>Ampacity<br>With Optional<br>Powered<br>Exhaust | Air Cond.<br>Max. Fuse<br>or Ckt.<br>Bkr. Size | Air Cond. Max.<br>Fuse or Ckt.<br>Bkr. Size With<br>Optional<br>Powered<br>Exhaust |  |
| 036ACT                                                                                      | NONE*             | —                                | —         | 23/23                         | 26/26                                                             | 30/30                             | 35/35                                                                 | —                                   | —                                               | 23/23                                                                     | 30/30                                          | 35/35                                                                              |  |
|                                                                                             | DC10CP            | 7.5/10.0                         | 20.9/24.1 | 49/53                         | 52/56                                                             | 50/60                             | 60/60                                                                 | 27/31                               | 30/35                                           | 23/23                                                                     | 30/30                                          | 35/35                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 62/68                         | 65/71                                                             | 70/70                             | 70/80                                                                 | 40/46                               | 40/50                                           | 23/23                                                                     | 30/30                                          | 35/35                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 75/83                         | 78/86                                                             | 80/90                             | 80/90                                                                 | 53/61                               | 60/70                                           | 23/23                                                                     | 30/30                                          | 35/35                                                                              |  |
| 038ACU                                                                                      | NONE*             | —                                | —         | 28/28                         | 32/32                                                             | 40/40                             | 40/40                                                                 | —                                   | —                                               | 28/28                                                                     | 40/40                                          | 40/40                                                                              |  |
|                                                                                             | DC10CP            | 7.5/10.0                         | 20.9/24.1 | 55/59                         | 58/62                                                             | 60/60                             | 60/70                                                                 | 27/31                               | 30/35                                           | 28/28                                                                     | 40/40                                          | 40/40                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 68/74                         | 71/77                                                             | 70/80                             | 80/80                                                                 | 40/46                               | 40/50                                           | 28/28                                                                     | 40/40                                          | 40/40                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 81/89                         | 84/92                                                             | 90/90                             | 90/100                                                                | 53/61                               | 60/70                                           | 28/28                                                                     | 40/40                                          | 40/40                                                                              |  |
| 048ACT                                                                                      | NONE*             | —                                | —         | 25/25                         | 28/28                                                             | 35/35                             | 40/40                                                                 | —                                   | —                                               | 25/25                                                                     | 35/35                                          | 40/40                                                                              |  |
|                                                                                             | DC10CP            | 7.5/10.0                         | 20.9/24.1 | 51/55                         | 54/58                                                             | 60/60                             | 60/60                                                                 | 27/31                               | 30/35                                           | 25/25                                                                     | 35/35                                          | 40/40                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 64/70                         | 67/73                                                             | 70/70                             | 70/80                                                                 | 40/46                               | 40/50                                           | 25/25                                                                     | 35/35                                          | 40/40                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 77/85                         | 80/88                                                             | 80/90                             | 80/90                                                                 | 53/61                               | 60/70                                           | 25/25                                                                     | 35/35                                          | 40/40                                                                              |  |
| 048ACU                                                                                      | NONE*             | —                                | —         | 30/30                         | 33/33                                                             | 40/40                             | 45/45                                                                 | —                                   | —                                               | 30/30                                                                     | 40/40                                          | 45/45                                                                              |  |
|                                                                                             | DC10CP            | 7.5/10.0                         | 20.9/24.1 | 56/60                         | 60/64                                                             | 60/60                             | 60/70                                                                 | 27/31                               | 30/35                                           | 30/30                                                                     | 40/40                                          | 45/45                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 70/76                         | 73/79                                                             | 70/80                             | 80/80                                                                 | 40/46                               | 40/50                                           | 30/30                                                                     | 40/40                                          | 45/45                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 82/90                         | 86/94                                                             | 90/90                             | 90/100                                                                | 53/61                               | 60/70                                           | 30/30                                                                     | 40/40                                          | 45/45                                                                              |  |
| 060ACT                                                                                      | NONE*             | —                                | —         | 33/33                         | 36/36                                                             | 45/45                             | 50/50                                                                 | —                                   | —                                               | 33/33                                                                     | 45/45                                          | 50/50                                                                              |  |
|                                                                                             | DC10CP            | 7.5/10.0                         | 20.9/24.1 | 60/64                         | 63/67                                                             | 60/70                             | 70/70                                                                 | 27/31                               | 30/35                                           | 33/33                                                                     | 45/45                                          | 50/50                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 73/79                         | 76/82                                                             | 80/80                             | 80/90                                                                 | 40/46                               | 40/50                                           | 33/33                                                                     | 45/45                                          | 50/50                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 86/94                         | 89/97                                                             | 90/100                            | 90/100                                                                | 53/61                               | 60/70                                           | 33/33                                                                     | 45/45                                          | 50/50                                                                              |  |
| 060ACU                                                                                      | NONE*             | —                                | —         | 37/37                         | 40/40                                                             | 50/50                             | 50/50                                                                 | —                                   | —                                               | 37/37                                                                     | 50/50                                          | 50/50                                                                              |  |
|                                                                                             | DC10CP            | 7.5/10.0                         | 20.9/24.1 | 63/67                         | 67/71                                                             | 70/70                             | 70/80                                                                 | 27/31                               | 30/35                                           | 37/37                                                                     | 50/50                                          | 50/50                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 77/83                         | 80/86                                                             | 80/90                             | 80/90                                                                 | 40/46                               | 40/50                                           | 37/37                                                                     | 50/50                                          | 50/50                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 89/97                         | 93/101                                                            | 90/100                            | 100/110                                                               | 53/61                               | 60/70                                           | 37/37                                                                     | 50/50                                          | 50/50                                                                              |  |
| 072ACT                                                                                      | NONE*             | —                                | —         | 38/38                         | 41/41                                                             | 50/50                             | 60/60                                                                 | —                                   | —                                               | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 78/84                         | 81/87                                                             | 80/90                             | 90/90                                                                 | 40/46                               | 40/50                                           | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 90/98                         | 94/102                                                            | 90/100                            | 100/110                                                               | 53/61                               | 60/70                                           | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
|                                                                                             | DC24CP            | 18.0/24.0                        | 50.0/57.7 | 101/110                       | 104/114                                                           | 110/110                           | 110/125                                                               | 63/73                               | 70/80                                           | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
| 072ACU                                                                                      | NONE*             | —                                | —         | 38/38                         | 41/41                                                             | 50/50                             | 60/60                                                                 | —                                   | —                                               | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
|                                                                                             | DC15CP            | 11.3/15.0                        | 31.4/36.2 | 78/84                         | 81/87                                                             | 80/90                             | 90/90                                                                 | 40/46                               | 40/50                                           | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
|                                                                                             | DC20CP            | 15.0/20.0                        | 41.7/48.1 | 90/98                         | 94/102                                                            | 90/100                            | 100/110                                                               | 53/61                               | 60/70                                           | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |
|                                                                                             | DC24CP            | 18.0/24.0                        | 50.0/57.7 | 101/110                       | 104/114                                                           | 110/110                           | 110/125                                                               | 63/73                               | 70/80                                           | 38/38                                                                     | 50/50                                          | 60/60                                                                              |  |

460V, Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application

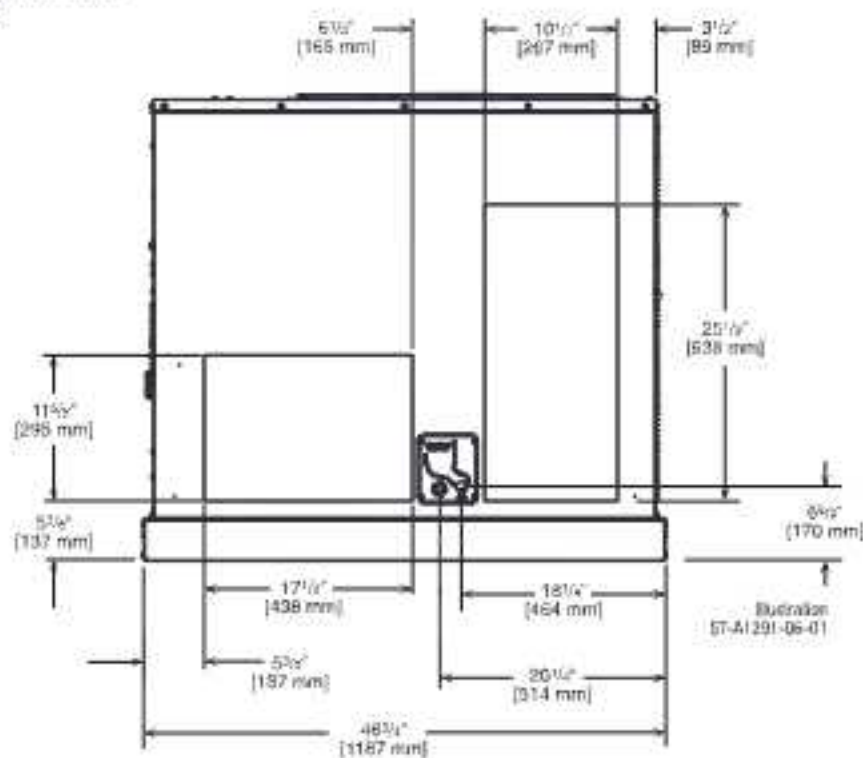
| 450V, Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application |                 |                        |      |                         |                                                       |                             |                                                           |                               |                                        |                                                            |                                                                     |    |
|-----------------------------------------------------------------------------------------|-----------------|------------------------|------|-------------------------|-------------------------------------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------|----------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|----|
| Single Power Supply for Both Unit and Heater Kit                                        |                 |                        |      |                         | Separate Power Supply for Both Unit and Heater Kit    |                             |                                                           |                               |                                        |                                                            |                                                                     |    |
| Unit Model Number RHPCYB                                                                | Heater Kit      |                        |      | Air Conditioner         |                                                       |                             | Heater Kit                                                |                               | Air Conditioner                        |                                                            |                                                                     |    |
|                                                                                         | Model No. RXJJ- | Rated Heater KW @ 460V | FLA  | Unit Min. Ckt. Ampacity | Unit Min. Ckt. Ampacity With Optional Powered Exhaust | Max. Fuse or Ckt. Bkr. Size | Max. Fuse or Ckt. Bkr. Size With Optional Powered Exhaust | Heater Kit Min. Ckt. Ampacity | Heater Kit Max. Fuse or Ckt. Bkr. Size | Air Cond. Min. Ckt. Ampacity With Optional Powered Exhaust | Air Cond. Max. Fuse or Ckt. Bkr. Size With Optional Powered Exhaust |    |
| 036ADT                                                                                  | NONE*           | —                      | —    | 11                      | 13                                                    | 15                          | 15                                                        | —                             | —                                      | 11                                                         | 13                                                                  | 15 |
|                                                                                         | DC100NV         | 10.0                   | 12.0 | 26                      | 28                                                    | 30                          | 30                                                        | 15                            | 15                                     | 11                                                         | 13                                                                  | 15 |
|                                                                                         | DC150NV         | 15.0                   | 18.1 | 34                      | 36                                                    | 35                          | 40                                                        | 23                            | 25                                     | 11                                                         | 13                                                                  | 15 |
| 036ADU                                                                                  | DC200NV         | 20.0                   | 24.1 | 41                      | 43                                                    | 45                          | 45                                                        | 31                            | 35                                     | 11                                                         | 13                                                                  | 15 |
|                                                                                         | NONE*           | —                      | —    | 12                      | 14                                                    | 15                          | 20                                                        | —                             | —                                      | 12                                                         | 14                                                                  | 15 |
|                                                                                         | DC100NV         | 10.0                   | 12.0 | 27                      | 29                                                    | 30                          | 30                                                        | 15                            | 15                                     | 12                                                         | 14                                                                  | 15 |
| 048ADT                                                                                  | DC150NV         | 15.0                   | 18.1 | 35                      | 37                                                    | 35                          | 40                                                        | 23                            | 25                                     | 12                                                         | 14                                                                  | 15 |
|                                                                                         | DC200NV         | 20.0                   | 24.1 | 42                      | 44                                                    | 45                          | 45                                                        | 31                            | 35                                     | 12                                                         | 14                                                                  | 15 |
|                                                                                         | NONE*           | —                      | —    | 13                      | 15                                                    | 15                          | 20                                                        | —                             | —                                      | 13                                                         | 15                                                                  | 20 |
| 048ADU                                                                                  | DC100NV         | 10.0                   | 12.0 | 28                      | 30                                                    | 30                          | 30                                                        | 15                            | 15                                     | 13                                                         | 15                                                                  | 20 |
|                                                                                         | DC150NV         | 15.0                   | 18.1 | 36                      | 38                                                    | 40                          | 40                                                        | 23                            | 25                                     | 13                                                         | 15                                                                  | 20 |
|                                                                                         | DC200NV         | 20.0                   | 24.1 | 43                      | 45                                                    | 45                          | 45                                                        | 31                            | 35                                     | 13                                                         | 15                                                                  | 20 |
| 060ADT                                                                                  | NONE*           | —                      | —    | 15                      | 17                                                    | 20                          | 20                                                        | —                             | —                                      | 15                                                         | 17                                                                  | 20 |
|                                                                                         | DC100NV         | 10.0                   | 12.0 | 30                      | 32                                                    | 30                          | 35                                                        | 15                            | 15                                     | 15                                                         | 17                                                                  | 20 |
|                                                                                         | DC150NV         | 15.0                   | 18.1 | 38                      | 40                                                    | 40                          | 40                                                        | 23                            | 25                                     | 15                                                         | 17                                                                  | 20 |
| 060ADU                                                                                  | DC200NV         | 20.0                   | 24.1 | 45                      | 47                                                    | 45                          | 50                                                        | 31                            | 35                                     | 15                                                         | 17                                                                  | 20 |
|                                                                                         | NONE*           | —                      | —    | 15                      | 17                                                    | 20                          | 20                                                        | —                             | —                                      | 15                                                         | 17                                                                  | 20 |
|                                                                                         | DC100NV         | 10.0                   | 12.0 | 30                      | 32                                                    | 30                          | 35                                                        | 15                            | 15                                     | 15                                                         | 17                                                                  | 20 |
| 072ADT                                                                                  | DC150NV         | 15.0                   | 18.1 | 38                      | 40                                                    | 40                          | 40                                                        | 23                            | 25                                     | 15                                                         | 17                                                                  | 20 |
|                                                                                         | DC200NV         | 20.0                   | 24.1 | 45                      | 48                                                    | 45                          | 50                                                        | 31                            | 35                                     | 15                                                         | 17                                                                  | 20 |
|                                                                                         | NONE*           | —                      | —    | 18                      | 20                                                    | 25                          | 25                                                        | —                             | —                                      | 18                                                         | 20                                                                  | 25 |
| 072ADU                                                                                  | DC150NV         | 15.0                   | 18.1 | 40                      | 43                                                    | 40                          | 45                                                        | 23                            | 25                                     | 18                                                         | 20                                                                  | 25 |
|                                                                                         | DC200NV         | 20.0                   | 24.1 | 48                      | 50                                                    | 50                          | 50                                                        | 31                            | 35                                     | 18                                                         | 20                                                                  | 25 |
|                                                                                         | DC240NV         | 24.0                   | 28.9 | 54                      | 56                                                    | 60                          | 60                                                        | 37                            | 40                                     | 18                                                         | 20                                                                  | 25 |
| 072ADU                                                                                  | NONE*           | —                      | —    | 18                      | 20                                                    | 25                          | 25                                                        | —                             | —                                      | 18                                                         | 20                                                                  | 25 |
|                                                                                         | DC150NV         | 15.0                   | 18.1 | 40                      | 43                                                    | 40                          | 45                                                        | 23                            | 25                                     | 18                                                         | 20                                                                  | 25 |
|                                                                                         | DC200NV         | 20.0                   | 24.1 | 48                      | 50                                                    | 50                          | 50                                                        | 31                            | 35                                     | 18                                                         | 20                                                                  | 25 |
| 072ADU                                                                                  | DC240NV         | 24.0                   | 28.9 | 54                      | 56                                                    | 60                          | 60                                                        | 37                            | 40                                     | 18                                                         | 20                                                                  | 25 |

| 208/230V Single Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application |                 |                            |           |                         |                                                       |                             |                                                    |                                        |                                                            |                                       |                                                            |                                                                     |                                                                     |
|---------------------------------------------------------------------------------------------|-----------------|----------------------------|-----------|-------------------------|-------------------------------------------------------|-----------------------------|----------------------------------------------------|----------------------------------------|------------------------------------------------------------|---------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Single Power Supply for Both Unit and Heater Kit                                            |                 |                            |           |                         |                                                       |                             | Separate Power Supply for Both Unit and Heater Kit |                                        |                                                            |                                       |                                                            |                                                                     |                                                                     |
| Unit Model Number RHPC7B                                                                    | Heater Kit      |                            |           | Air Conditioner         |                                                       |                             | Heater Kit                                         |                                        |                                                            | Air Conditioner                       |                                                            |                                                                     |                                                                     |
|                                                                                             | Model No. RXJJ- | Rated Heater KW @ 208/230V | FLA       | Unit Min. Ckt. Ampacity | Unit Min. Ckt. Ampacity With Optional Powered Exhaust | Max. Fuse or Ckt. Bkr. Size | Heater Kit Min. Ckt. Ampacity                      | Heater Kit Max. Fuse or Ckt. Bkr. Size | Air Cond. Min. Ckt. Ampacity With Optional Powered Exhaust | Air Cond. Max. Fuse or Ckt. Bkr. Size | Air Cond. Min. Ckt. Ampacity With Optional Powered Exhaust | Air Cond. Max. Fuse or Ckt. Bkr. Size With Optional Powered Exhaust | Air Cond. Max. Fuse or Ckt. Bkr. Size With Optional Powered Exhaust |
| 036AJT                                                                                      | NONE*           | —                          | —         | 29/29                   | 32/32                                                 | 45/45                       | —                                                  | —                                      | 29/29                                                      | 40/40                                 | 32/32                                                      | 45/45                                                               | 45/45                                                               |
|                                                                                             | DC10JT          | 7.5/10.0                   | 36.2/41.7 | 74/81                   | 77/84                                                 | 80/90                       | 46/53                                              | 50/60                                  | 29/29                                                      | 40/40                                 | 32/32                                                      | 45/45                                                               | 45/45                                                               |
|                                                                                             | DC15JT          | 11.3/15.0                  | 54.3/62.7 | 96/107                  | 100/110                                               | 100/110                     | 68/79                                              | 70/80                                  | 29/29                                                      | 40/40                                 | 32/32                                                      | 45/45                                                               | 45/45                                                               |
|                                                                                             | DC20JT          | 15.0/20.0                  | 72.2/83.3 | 119/133                 | 122/136                                               | 125/150                     | 91/105                                             | 100/110                                | 29/29                                                      | 40/40                                 | 32/32                                                      | 45/45                                                               | 45/45                                                               |
| 048AJT                                                                                      | NONE*           | —                          | —         | 37/37                   | 40/40                                                 | 60/60                       | —                                                  | —                                      | 37/37                                                      | 50/50                                 | 40/40                                                      | 60/60                                                               | 60/60                                                               |
|                                                                                             | DC10JT          | 7.5/10.0                   | 36.2/41.7 | 82/89                   | 85/92                                                 | 90/100                      | 46/53                                              | 50/60                                  | 37/37                                                      | 50/50                                 | 40/40                                                      | 60/60                                                               | 60/60                                                               |
|                                                                                             | DC15JT          | 11.3/15.0                  | 54.3/62.7 | 105/115                 | 108/118                                               | 110/125                     | 68/79                                              | 70/80                                  | 37/37                                                      | 50/50                                 | 40/40                                                      | 60/60                                                               | 60/60                                                               |
|                                                                                             | DC20JT          | 15.0/20.0                  | 72.2/83.3 | 127/141                 | 130/144                                               | 150/150                     | 91/105                                             | 100/110                                | 37/37                                                      | 50/50                                 | 40/40                                                      | 60/60                                                               | 60/60                                                               |
| 060AJT                                                                                      | NONE*           | —                          | —         | 43/43                   | 46/46                                                 | 60/60                       | —                                                  | —                                      | 43/43                                                      | 60/60                                 | 46/46                                                      | 60/60                                                               | 60/60                                                               |
|                                                                                             | DC10JT          | 7.5/10.0                   | 36.2/41.7 | 88/95                   | 91/98                                                 | 100/100                     | 46/53                                              | 50/60                                  | 43/43                                                      | 60/60                                 | 46/46                                                      | 60/60                                                               | 60/60                                                               |
|                                                                                             | DC15JT          | 11.3/15.0                  | 54.3/62.7 | 111/121                 | 114/124                                               | 125/125                     | 68/79                                              | 70/80                                  | 43/43                                                      | 60/60                                 | 46/46                                                      | 60/60                                                               | 60/60                                                               |
|                                                                                             | DC20JT          | 15.0/20.0                  | 72.2/83.3 | 133/147                 | 136/150                                               | 150/150                     | 91/105                                             | 100/110                                | 43/43                                                      | 60/60                                 | 46/46                                                      | 60/60                                                               | 60/60                                                               |

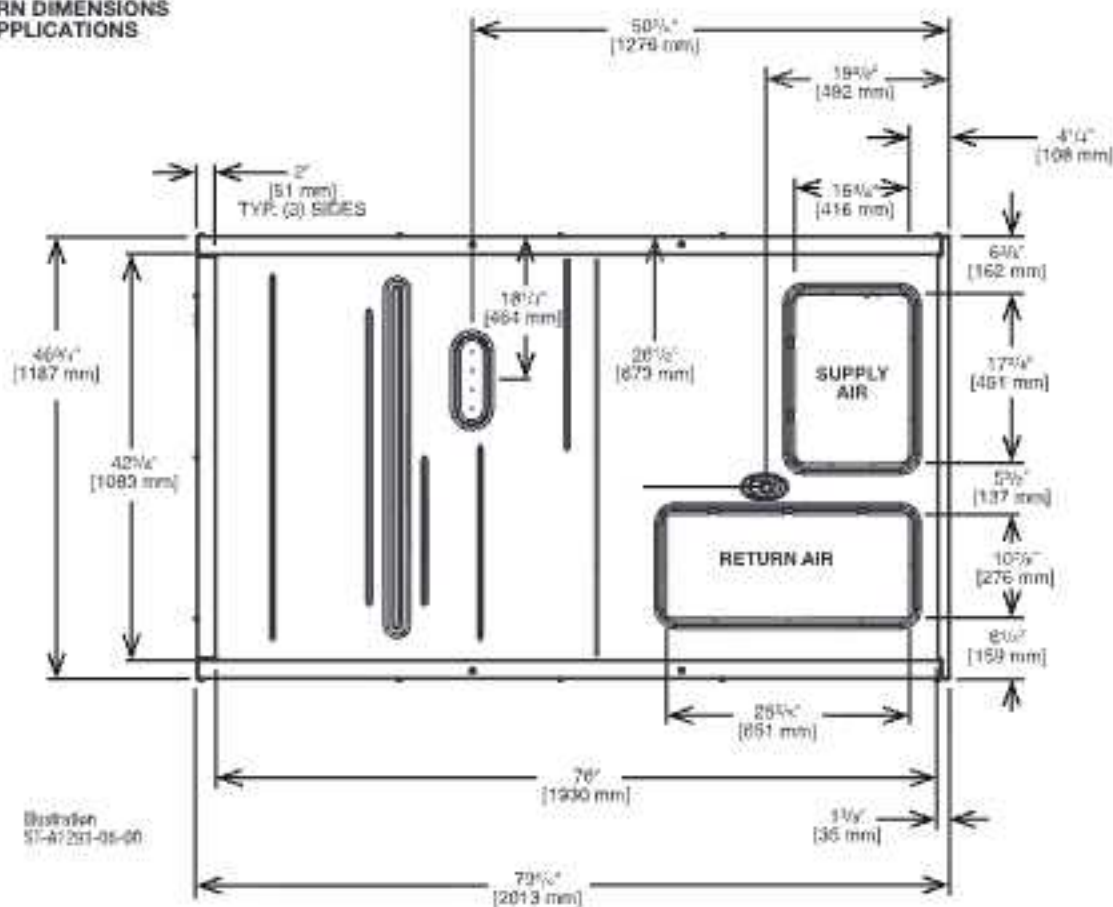


[ ] Designates Metric Conversions

**SUPPLY AND RETURN DIMENSIONS FOR  
HORIZONTAL APPLICATIONS  
(SIDE VIEW)**



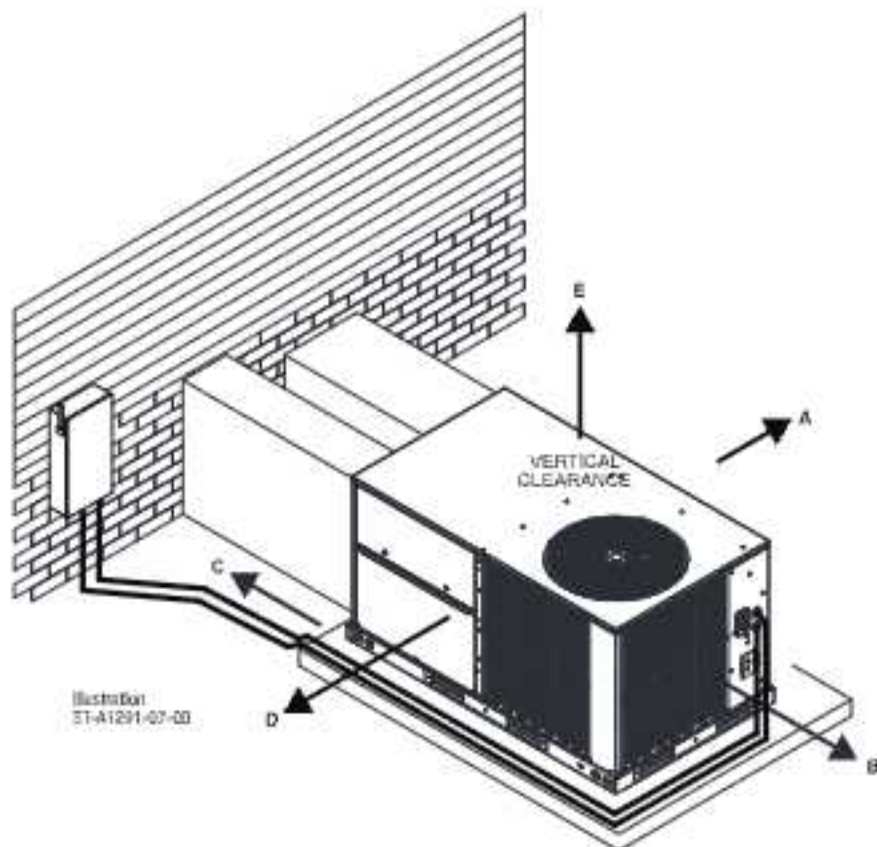
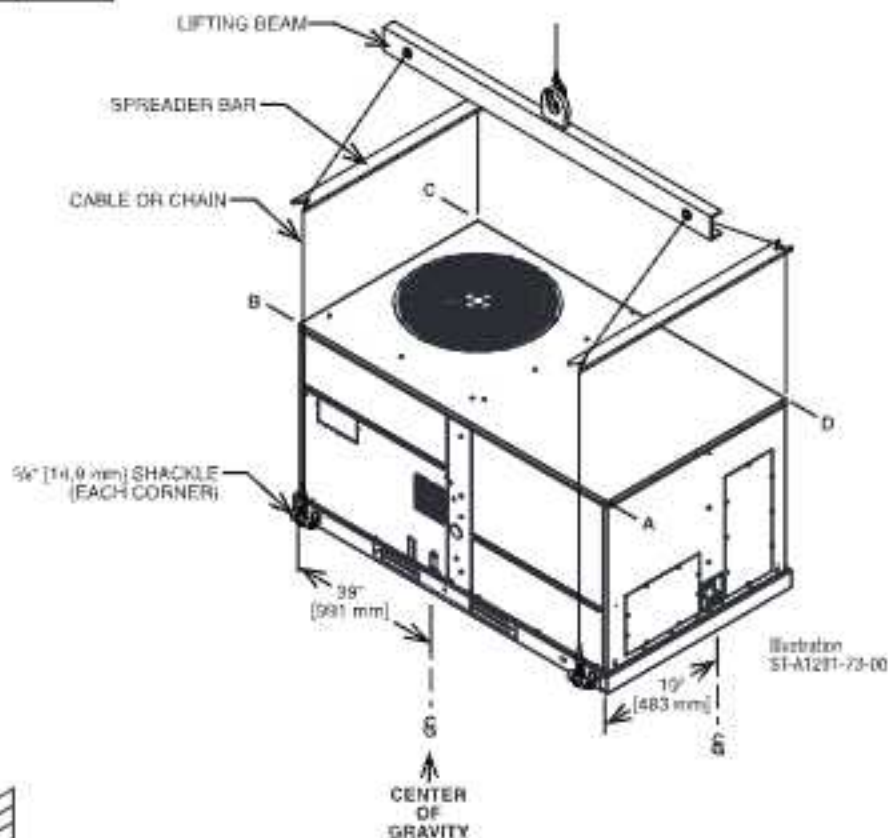
**SUPPLY AND RETURN DIMENSIONS FOR  
DOWNFLOW APPLICATIONS  
(BOTTOM VIEW)**



[ ] Designates Metric Conversions

## WEIGHTS

| Capacity Tons [kW]  | Corner Weights by Percentage |     |     |     |
|---------------------|------------------------------|-----|-----|-----|
|                     | A                            | B   | C   | D   |
| 3.0-6.0 [10.6-21.1] | 18%                          | 40% | 19% | 23% |



### 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] Ⓢ                    | C - DUCT END      |
| 24 [609] Ⓢ                     | *D - FILTER SIDE  |
| 60 [1524]                      | E - ABOVE         |

- Ⓢ 18" [457 mm] MINIMUM IF DRAIN PAN WILL NOT BE REMOVED.  
Ⓢ 48" [1219 mm] MINIMUM IF ECONOMIZER IS INSTALLED.

[ Ⓢ ] Designates Metric Conversions



## FIELD-INSTALLED ACCESSORY EQUIPMENT

| Accessory                                                                                               | Model Number  | Shipping Weight<br>Lbs. [kg] | Installed Weight<br>Lbs. [kg] | Factory Installation Available? |
|---------------------------------------------------------------------------------------------------------|---------------|------------------------------|-------------------------------|---------------------------------|
| Comfort Alert (1 Phase) DDC                                                                             | RXXR-AZ03     | 3 [1.5]                      | 2 [0.9]                       | Yes                             |
| Comfort Alert (1 Phase) Non-DDC                                                                         | RXXR-AZ04     | 3 [1.5]                      | 2 [0.9]                       | Yes                             |
| Comfort Alert (3 Phase) DDC                                                                             | RXXR-AZ01     | 3 [1.5]                      | 2 [0.9]                       | Yes                             |
| Comfort Alert (3 Phase) Non-DDC                                                                         | RXXR-AZ02     | 3 [1.5]                      | 2 [0.9]                       | Yes                             |
| Communication Card, BACnet                                                                              | RXXR-AY01     | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Communication Card, LonWorks                                                                            | RXXR-AY02     | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Concentric Adapter 3-4 Ton Drop                                                                         | RXMC-DD01     | 35 [15.9]                    | 30 [13.6]                     | No                              |
| Concentric Adapter 5-6 Ton Drop                                                                         | RXMC-DD02     | 40 [18.2]                    | 35 [15.9]                     | No                              |
| Concentric Diffuser 3-4 Ton Drop                                                                        | RXRN-AED1800  | 35 [15.9]                    | 30 [13.6]                     | No                              |
| Concentric Diffuser 5-6 Ton Drop                                                                        | RXRN-AED2000  | 35 [15.9]                    | 30 [13.6]                     | No                              |
| Concentric Diffuser 3-4 Ton Flush                                                                       | RXRN-AEF1800  | 30 [13.6]                    | 25 [11.3]                     | No                              |
| Concentric Diffuser 5-6 Ton Flush                                                                       | RXRN-AEF2000  | 30 [13.6]                    | 25 [11.3]                     | No                              |
| Convenience Outlet, Nonpowered                                                                          | RXXR-BN01     | 2 [1.0]                      | 1.5 [0.7]                     | Yes                             |
| Dual Enthalpy Kit (for Honeywell Jade)                                                                  | RXXR-BV01     | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Dual Enthalpy Kit DDC (for Honeywell DDC)                                                               | RXXR-BV02     | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Dual Enthalpy, Temperature and Humidity Sensor (for Ruskin Basic Controller)                            | PD955878      | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)                                            | PD555460      | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Economizer Universal DDC Interface Kit                                                                  | RXXR-DDC01    | 5 [2.7]                      | 3.5 [1.6]                     | Yes                             |
| Economizer with No Controls (Downflow/Vertical) MicroMetl Economizer, No Controls, Belimo Actuator      | RXRD-31MCDAM3 | 100 [45.4]                   | 66 [29.9]                     | No                              |
| Economizer w/Single Enthalpy (Downflow/Vertical) MicroMetl Economizer with Honeywell Jade Controller    | RXRD-01MCDAM3 | 100 [45.4]                   | 66 [29.9]                     | Yes                             |
| Economizer w/Single Enthalpy (Downflow/Vertical) MicroMetl Economizer with Siemens Controls             | RXRD-11MCDAM3 | 100 [45.4]                   | 66 [29.9]                     | Yes                             |
| Economizer w/Single Enthalpy (Downflow/Vertical) Ruskin Rooftop Systems with RRS Basic Controller       | RXRD-41MCDAM3 | 100 [45.4]                   | 66 [29.9]                     | Yes                             |
| Economizer w/Single Enthalpy (Downflow/Vertical) DDC MicroMetl Economizer with Honeywell DDC Controller | RXRD-01MCD8M3 | 100 [45.4]                   | 66 [29.9]                     | Yes                             |
| Economizer w/Single Enthalpy (Horizontal) MicroMetl Economizer with Honeywell Jade Controller           | RXRD-01MCHAM3 | 72 [32.7]                    | 69 [31.3]                     | No                              |
| Economizer w/Single Enthalpy (Horizontal) MicroMetl Economizer with Siemens Controls                    | RXRD-11MCHAM3 | 72 [32.7]                    | 69 [31.3]                     | No                              |
| Economizer w/Single Enthalpy (Horizontal) Ruskin Rooftop Systems with RRS Basic Controller              | RXRD-41MCHAM3 | 72 [32.7]                    | 69 [31.3]                     | No                              |
| Economizer w/Single Enthalpy (Horizontal) DDC MicroMetl Economizer with Honeywell DDC Controller        | RXRD-01MCH8M3 | 72 [32.7]                    | 69 [31.3]                     | No                              |
| Electric Heater Kits*                                                                                   | RXJJ-DC10JT   | 10 [4.5]                     | 8 [3.6]                       | Yes                             |
|                                                                                                         | RXJJ-DC15JT   | 13 [5.9]                     | 11 [5.0]                      | Yes                             |
|                                                                                                         | RXJJ-DC20JT   | 14 [6.4]                     | 12 [5.4]                      | Yes                             |
|                                                                                                         | RXJJ-DC10CP   | 10 [4.5]                     | 8 [3.6]                       | Yes                             |
|                                                                                                         | RXJJ-DC15CP   | 13 [5.9]                     | 11 [5.0]                      | Yes                             |
|                                                                                                         | RXJJ-DC20CP   | 14 [6.4]                     | 12 [5.4]                      | Yes                             |
|                                                                                                         | RXJJ-DC24CP   | 14 [6.4]                     | 12 [5.4]                      | Yes                             |
|                                                                                                         | RXJJ-DC10DNV  | 10 [4.5]                     | 8 [3.6]                       | Yes                             |
|                                                                                                         | RXJJ-DC15DNV  | 13 [5.9]                     | 11 [5.0]                      | Yes                             |
|                                                                                                         | RXJJ-DC20DNV  | 14 [6.4]                     | 12 [5.4]                      | Yes                             |
| Freeze Stat Kit                                                                                         | RXXR-AM05     | 2 [1.0]                      | 1.5 [0.7]                     | Yes                             |
| Fresh Air Damper, Manual                                                                                | RXRF-ACA1     | 22 [10.0]                    | 18 [8.2]                      | No                              |
| Fresh Air Damper, Motorized                                                                             | RXRF-ACB1     | 53 [24.0]                    | 43 [19.5]                     | No                              |
| Fresh Air Damper, Motorized (DDC)                                                                       | RXRF-ACA1     | 53 [24.0]                    | 43 [19.5]                     | No                              |
| Low-Ambient Control Kit                                                                                 | RXRZ-A04      | 4 [1.8]                      | 3 [1.4]                       | Yes                             |

\*10kW options not available on 6 Ton models.

[ ] Designates Metric Conversions

## FIELD-INSTALLED ACCESSORY EQUIPMENT (CON'T.)

| Accessory                                                     | Model Number               | Shipping Weight<br>Lbs. [kg] | Installed Weight<br>Lbs. [kg] | Factory Installation Available? |
|---------------------------------------------------------------|----------------------------|------------------------------|-------------------------------|---------------------------------|
| MERV 8 Filter                                                 | RXMF-M08A21616             | 2 [.90]                      | 1 [.45]                       | No                              |
| MERV 13 Filter                                                | RXMF-M13A21616             | 2 [.90]                      | 1 [.45]                       | No                              |
| Outdoor Coil Louver Kit                                       | RXRX-ADD04C                | 30 [13.6]                    | 25 [11.3]                     | Yes                             |
| Power Exhaust (230V) Horizontal <i>MicroMetl</i>              | RXRX-CCF03C                | 42 [19.1]                    | 39 [17.7]                     | No                              |
| Power Exhaust (230V) Horizontal <i>Ruskin Rooftop Systems</i> | RXRX-RCF03C                | 42 [19.1]                    | 39 [17.7]                     | No                              |
| Power Exhaust (230V) Vertical <i>MicroMetl</i>                | RXRX-CCF02C                | 24 [10.9]                    | 21 [9.5]                      | No                              |
| Power Exhaust (230V) Vertical <i>Ruskin Rooftop Systems</i>   | RXRX-RCF02C                | 24 [10.9]                    | 21 [9.5]                      | No                              |
| Power Exhaust (460V) Horizontal <i>MicroMetl</i>              | RXRX-CCF03D                | 42 [19.1]                    | 39 [17.7]                     | No                              |
| Power Exhaust (460V) Horizontal <i>Ruskin Rooftop Systems</i> | RXRX-RCF03D                | 42 [19.1]                    | 39 [17.7]                     | No                              |
| Power Exhaust (460V) Vertical <i>MicroMetl</i>                | RXRX-CCF02D                | 20 [9.1]                     | 17 [7.7]                      | No                              |
| Power Exhaust (460V) Vertical <i>Ruskin Rooftop Systems</i>   | RXRX-RCF02D                | 20 [9.1]                     | 17 [7.7]                      | No                              |
| Roofcurb, 14"                                                 | RXXG-DCC14                 | 94 [42.6]                    | 90 [40.8]                     | No                              |
| Roofcurb, 24"                                                 | RXXG-DCC24                 | 124 [56.2]                   | 120 [54.4]                    | No                              |
| Roofcurb Adapter                                              | RXRX-DCCAE                 | 159 [72.1]                   | 145 [65.8]                    | No                              |
| Sensor, Carbon Dioxide (Wall Mount)                           | RXRX-AR02                  | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Sensor, Room Humidity                                         | RHC-ZNS4                   | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Sensor, Room Temperature and Relative Humidity                | RHC-ZNS5                   | 1 [0.5]                      | 1 [0.5]                       | No                              |
| Single Point Wiring Kits                                      | RXJX-AJ0601 (Single Phase) | 20 [9.1]                     | 17 [7.7]                      | No                              |
|                                                               | RXJX-AZ0601 (Three Phase)  | 23 [10.4]                    | 20 [9.1]                      | No                              |
| Smoke Detector, Return (Field kit)                            | RXRX-BS01                  | 7 [3.2]                      | 6 [2.7]                       | No                              |
| Smoke Detector, Return/Supply (Field kit)                     | RXRX-BS02                  | 5 [2.3]                      | 4 [1.8]                       | No                              |
| Unfused Service Disconnect                                    | RXRX-BP01                  | 10 [4.5]                     | 9 [4.1]                       | Yes                             |

[ ] Designates Metric Conversions

## COMMUNICATION CARDS



### **BACnet COMMUNICATION CARD RXRX-AY01**

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



### **LonWorks COMMUNICATION CARD RXRX-AY02**

The field-installed LonWorks Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks Network.

## ELECTRIC HEAT AND SINGLE POINT WIRING

The field or factory electric heater kits are available in 10, 15 and 20 kW heating inputs, and for both single and 3-phase applications. The single point wiring kit is only available as a field installation accessory for units using electric heat, and also available for both single and 3-phase applications.

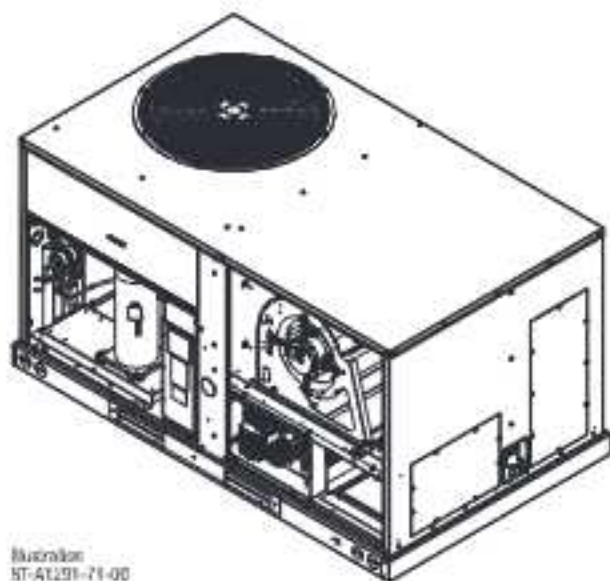
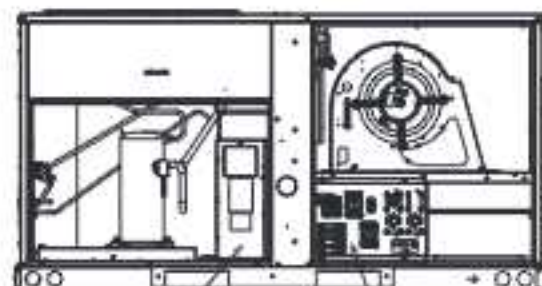


Illustration  
ST-AT291-71-00



SINGLE POINT WIRING BOX

ELECTRIC HEATER KIT

## NON-DDC ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

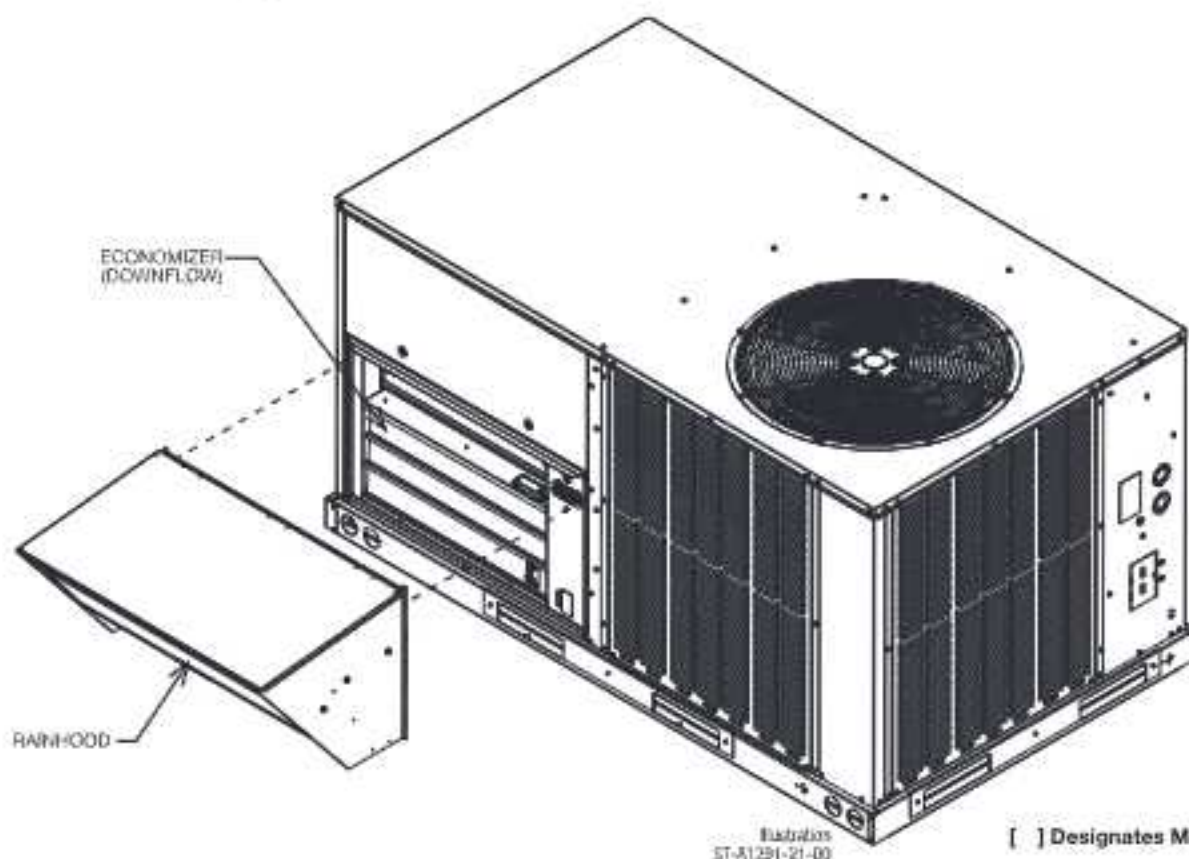
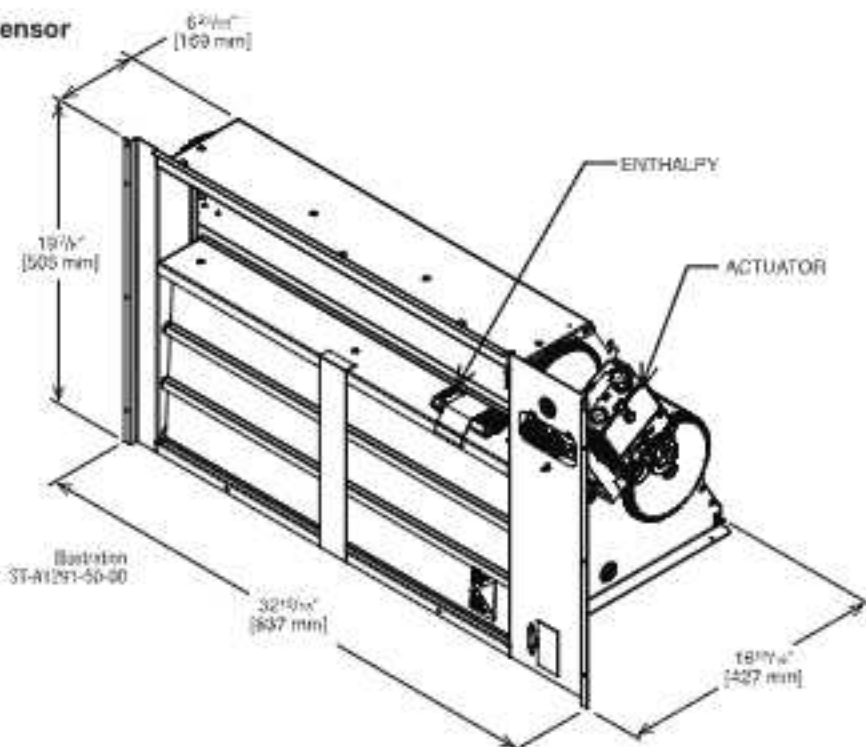
### Factory or Field-Installed

RXRD-01MCDAM3—Single Enthalpy (Outdoor)

RXRX-BV01—Dual Enthalpy Upgrade Kit

RXRX-AR02—Optional Wall-Mounted CO2 Sensor

- Features **Honeywell JADE** Digital 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 and ASHRAE 90.1 2022
- AMCA 511 Certified Class 1A Leakage—1" WG of differential pressure tested to AMCA Standard 500-D
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO2 Input Sensor Option Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option Available
- Fault detection and diagnostics



# NON-DDC ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

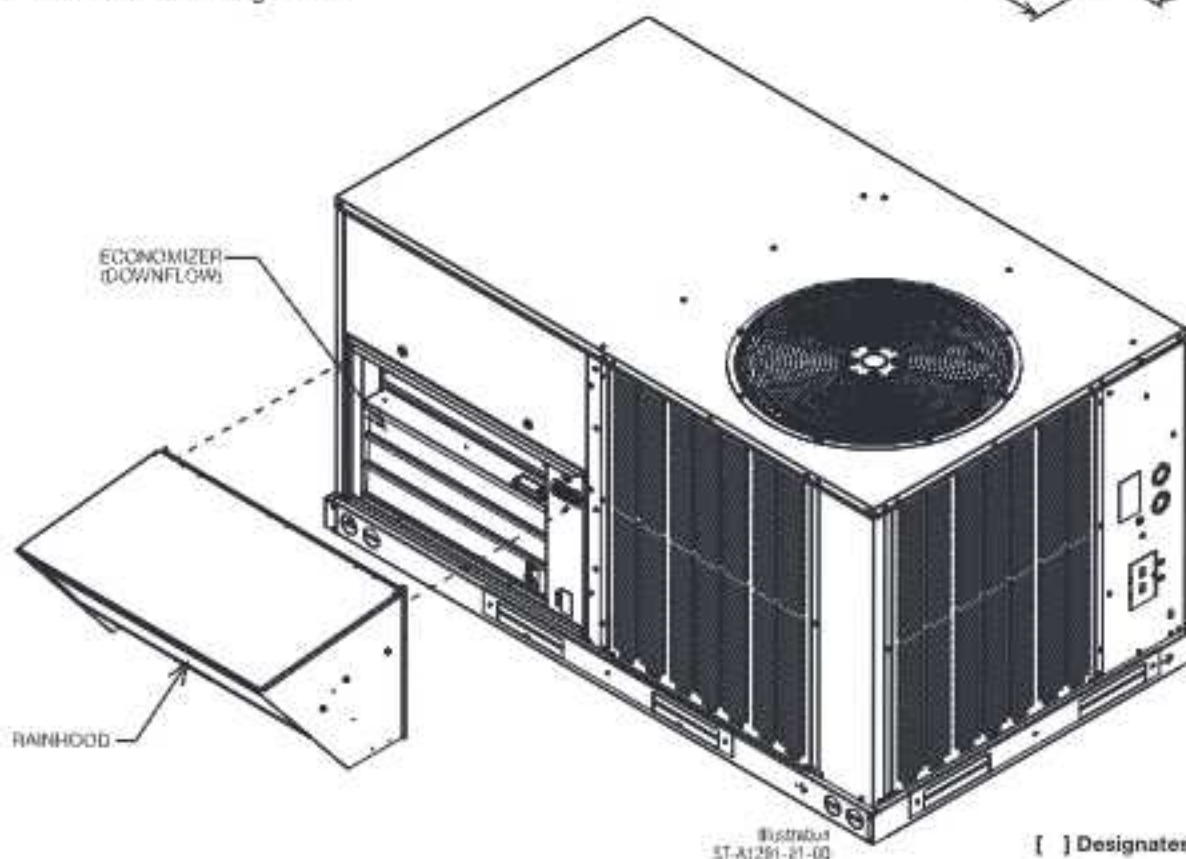
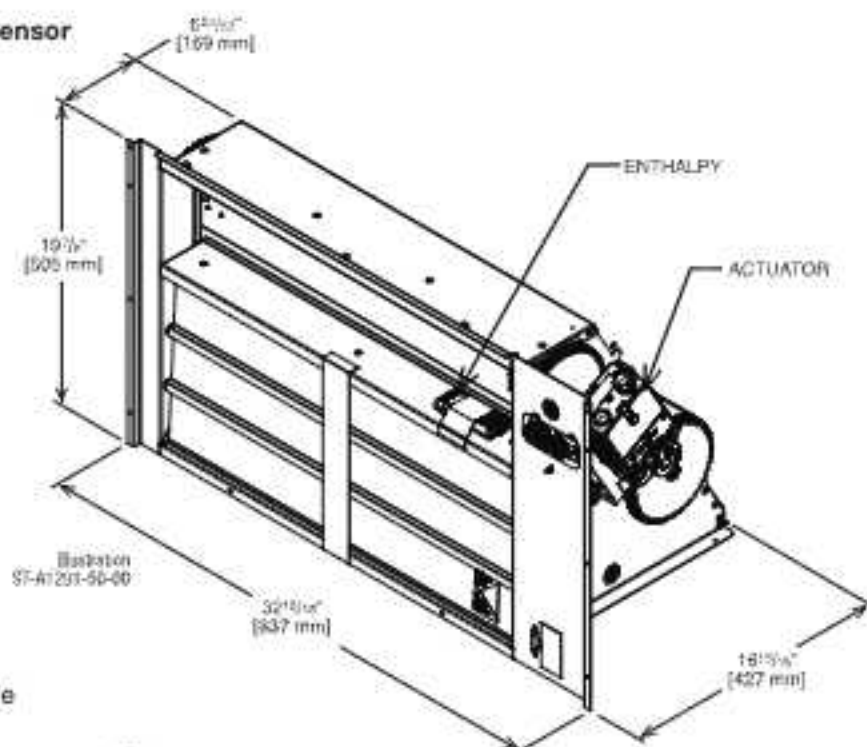
## Field-Installed Only

**RXRD-11MCDAM3—Single Enthalpy (Outdoor)**

**PD555460—Dual Enthalpy Upgrade Kit**

**RXRX-AR02—Optional Wall-Mounted CO2 Sensor**

- Features **Siemens** Climatix ECO® Economizer Controller
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- AMCA 511 Certified Class 1A Leakage — 1" WG of differential pressure tested to AMCA Standard 500-D
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Standard Barometric Relief Damper
- Single Enthalpy or Dry Bulb with Return Air Enthalpy Option
- CO2 Input Sensor Option Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option Available
- Fault detection and diagnostics



[ ] Designates Metric Conversions

## NON-DDC ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

### Field-Installed Only

**RXRD-41MCDAM3—Single Enthalpy (Outdoor)**

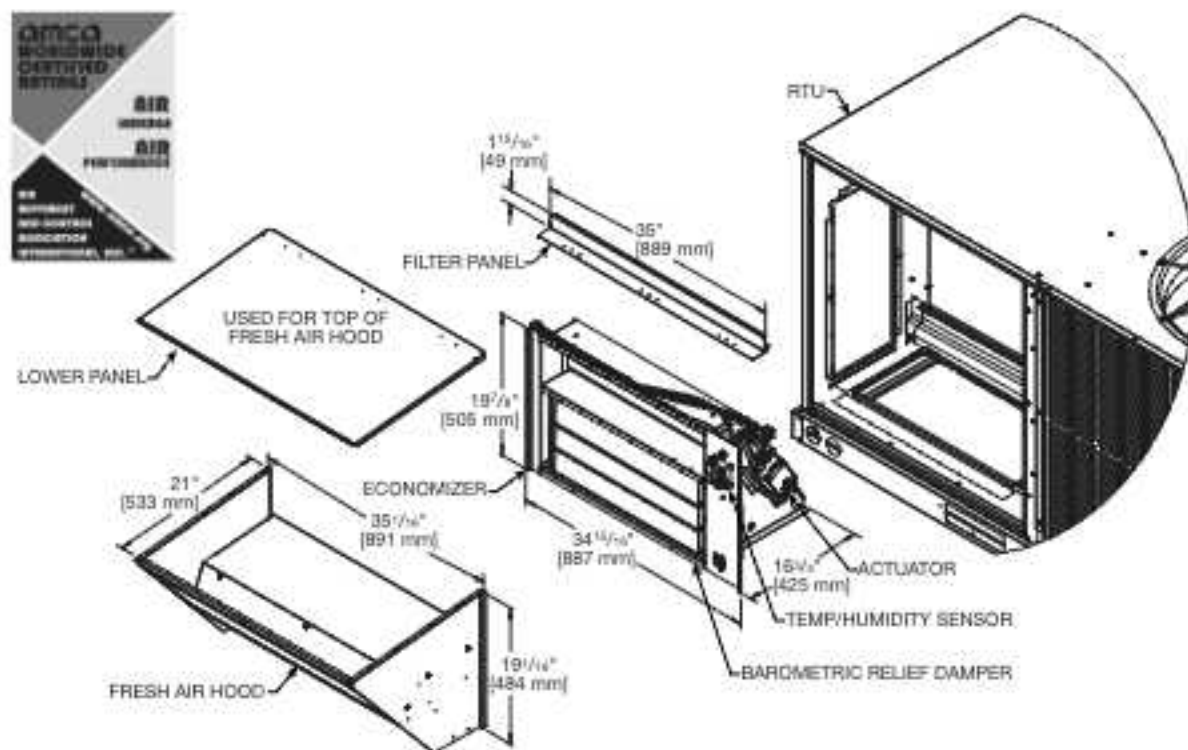
**PD555878—Temperature and Humidity Sensor for Dual Enthalpy (for Ruskin Basic Controller Only)**

**RXXR-AR02—Optional Wall-Mounted CO2 Sensor**

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide.
3. Blade edge seals shall be Ruskiprene™ type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. RRS controls feature the Basic economizer controller with 24v actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 cfm/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.

[ ] Designates Metric Conversions



\*Components not shown

## NON-DDC ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

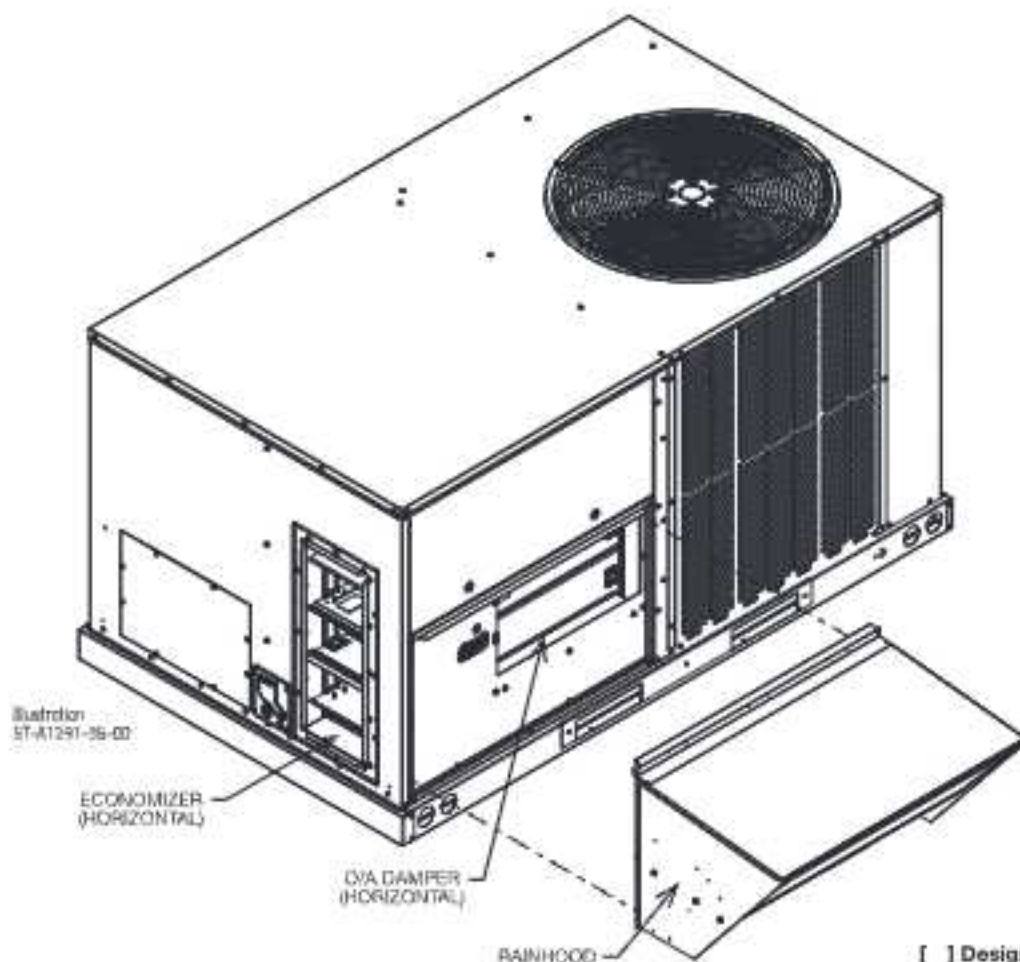
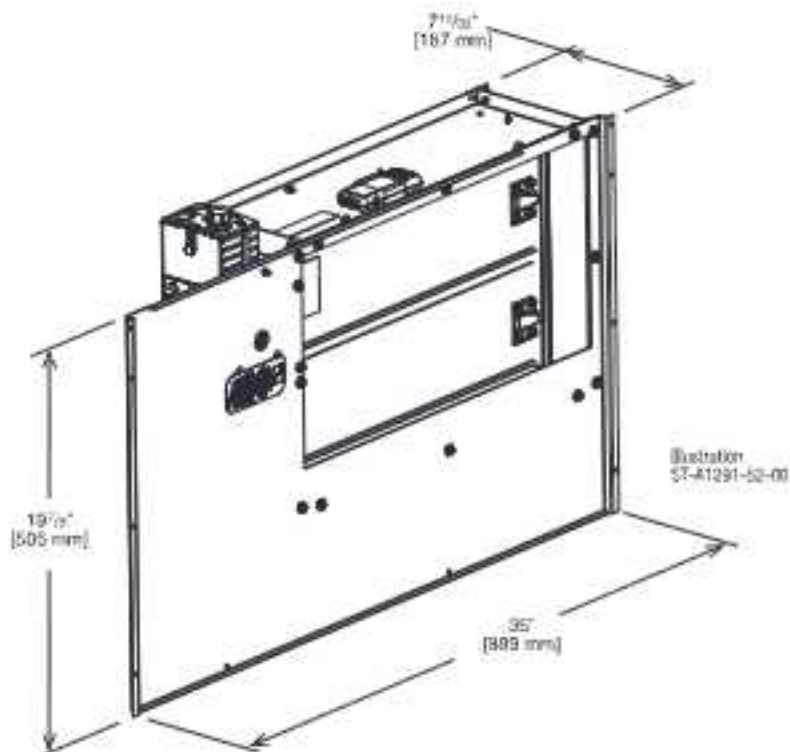
### Field-Installed Only

**RXRD-01MCHAM3—Single Enthalpy (Outdoor)**

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

**RXXR-AR02—Wall-mounted CO2 Sensor**

- Features **Honeywell JADE** Digital 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 and ASHRAE 90.1 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO2 Input Sensor Option Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field-Installed Power Exhaust Option Available



[ ] Designates Metric Conversions

## NON-DDC ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

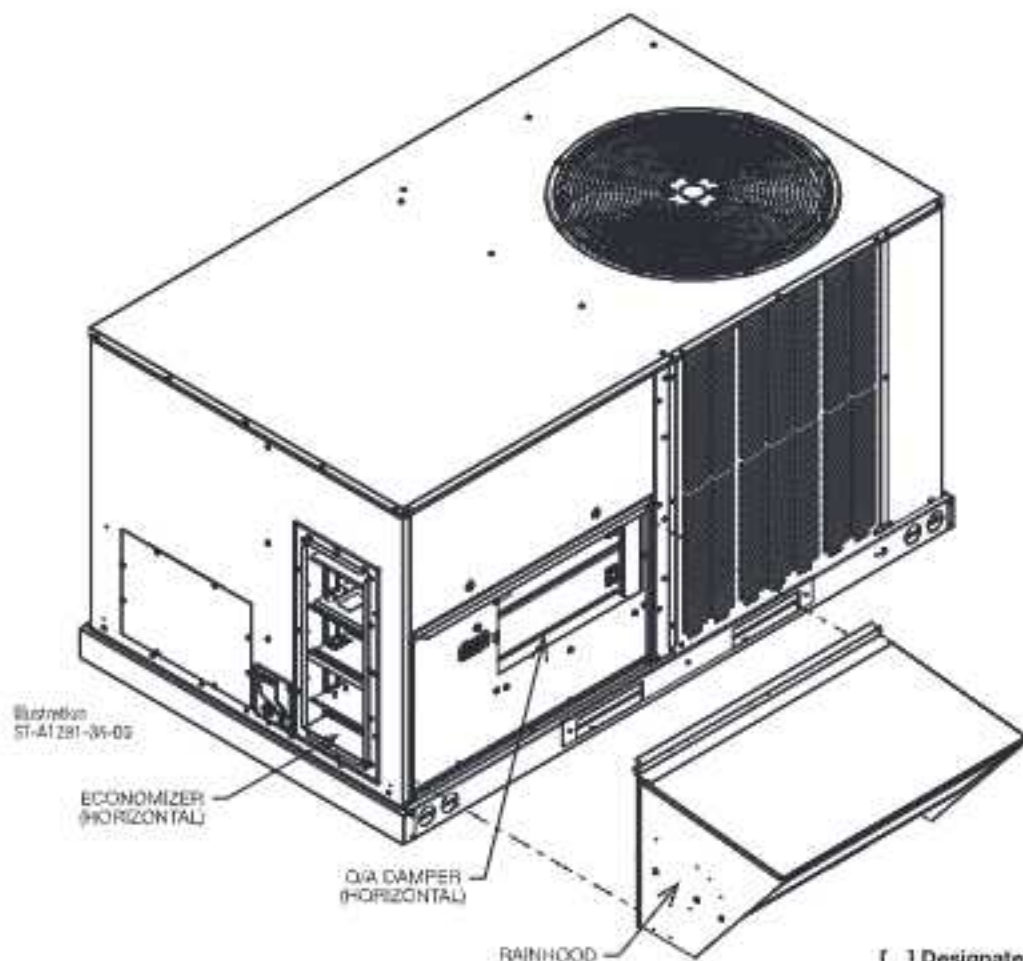
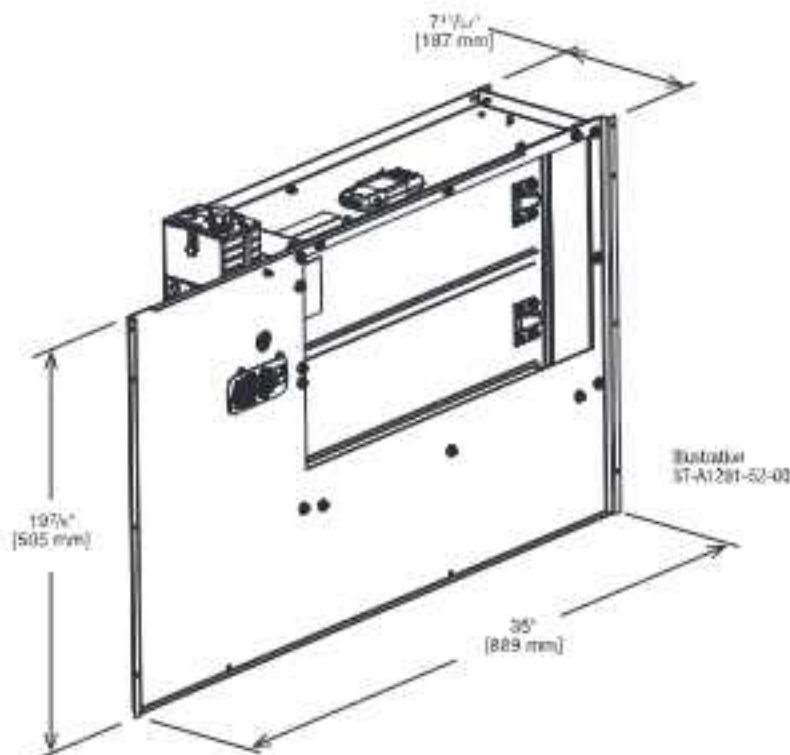
### Field-Installed Only

RXRD-11MCHAM3—Single Enthalpy (Outdoor)

PD555460—Temperature and Humidity Sensor for Dual Enthalpy (for Siemens Controllers Only)

RXXR-AR02—Wall-mounted CO2 Sensor

- Features **Siemens** Climatix ECO Economizer Controller
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO2 Input Sensor Option Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field-Installed Power Exhaust Option Available



[ ] Designates Metric Conversions

## NON-DDC ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

### Field-Installed Only

RXRD-41MCHAM3—Single Enthalpy (Outdoor)

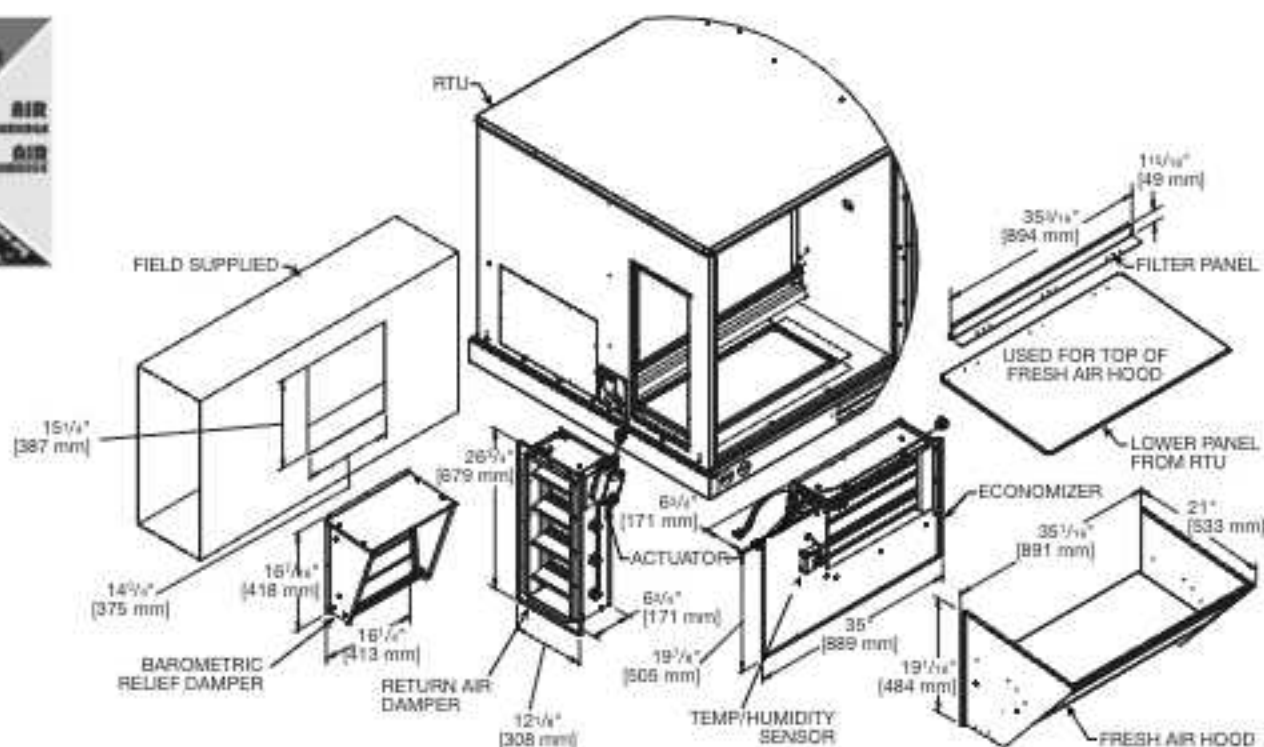
PD555878—Temperature and Humidity Sensor for Dual Enthalpy (for Ruskin Basic Controller Only)

RXRX-AR02—Wall-mounted CO2 Sensor

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide.
3. Blade edge seals shall be Ruskiprene type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. RRS controls feature the Basic economizer controller with 24v actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 cfm/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.

[ ] Designates Metric Conversions



\*Components not shown

## DDC—ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

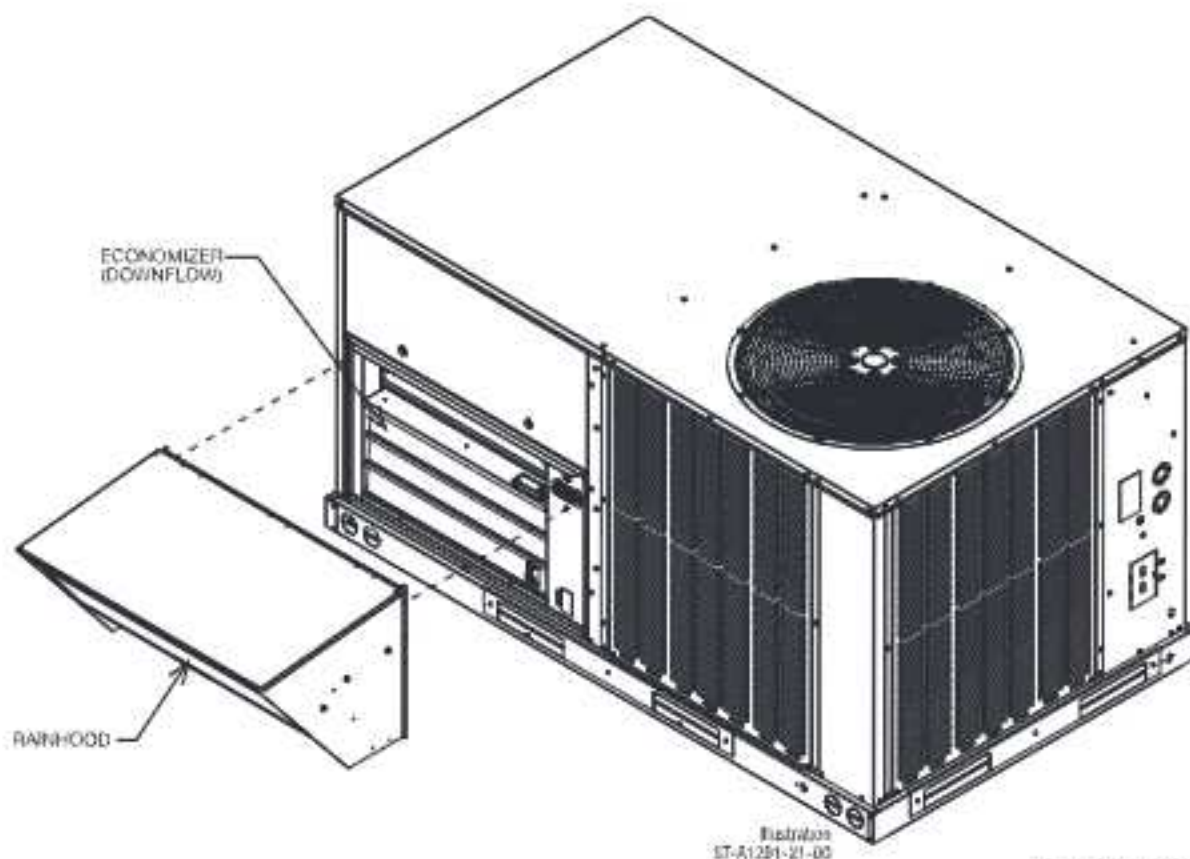
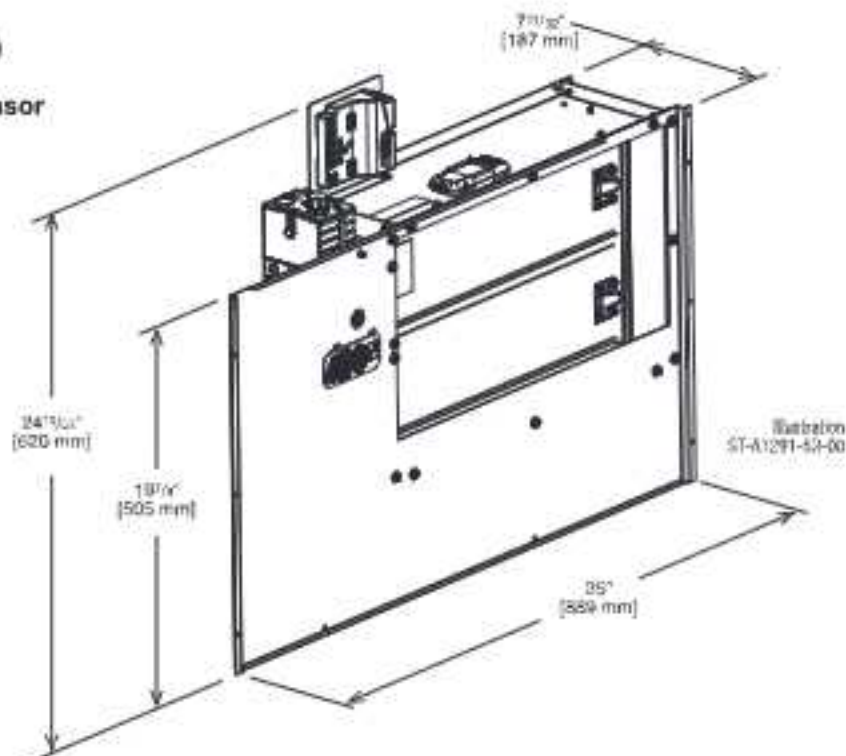
### Field-Installed Only

RXRD-01MCDDBM3—Single Enthalpy (Outdoor)

RXXR-BV02—Dual Enthalpy Upgrade Kit

RXXR-AR02—Optional Wall-Mounted CO2 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 and ASHRAE 90.1 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO2 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



[ ] Designates Metric Conversions

## DDC—ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

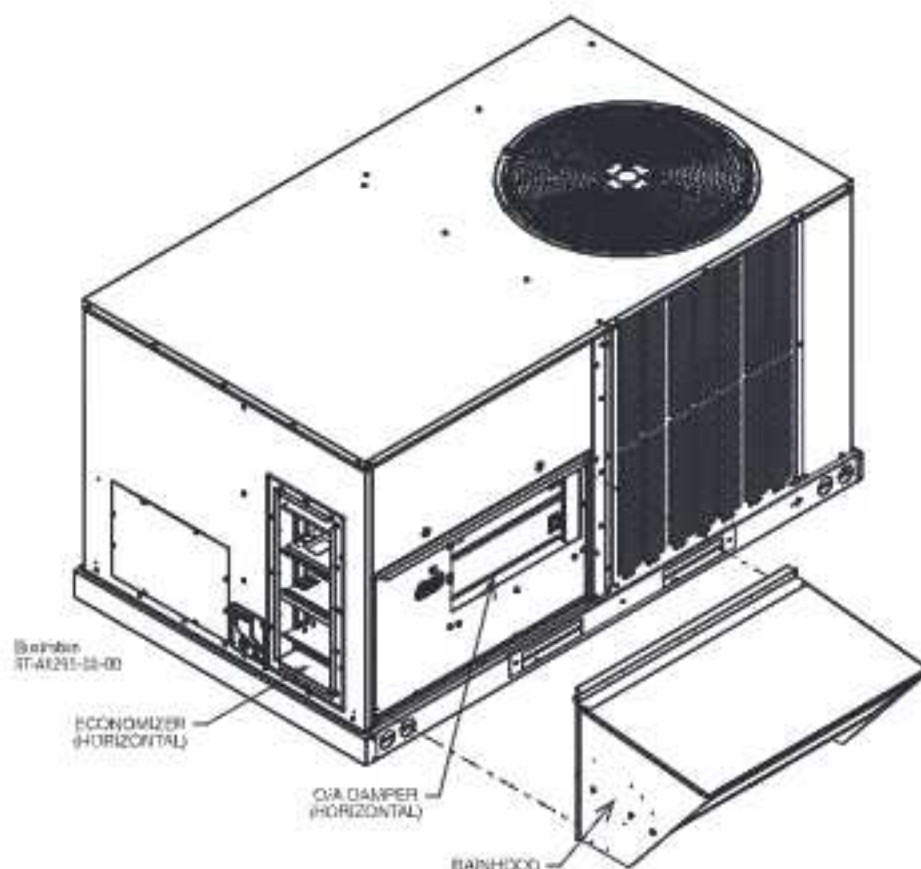
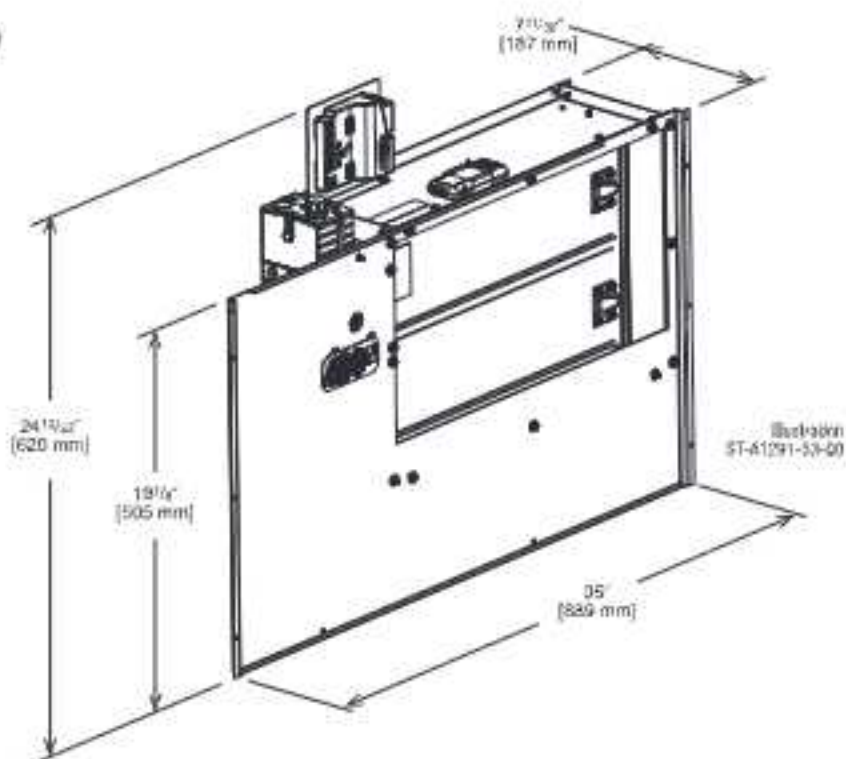
### Field-Installed Only

**RXRD-01MCHBM3—Single Enthalpy (Outdoor)**

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

**RXXR-AR02—Wall-mounted CO2 Sensor**

- Features **Honeywell** Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO2 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 a thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



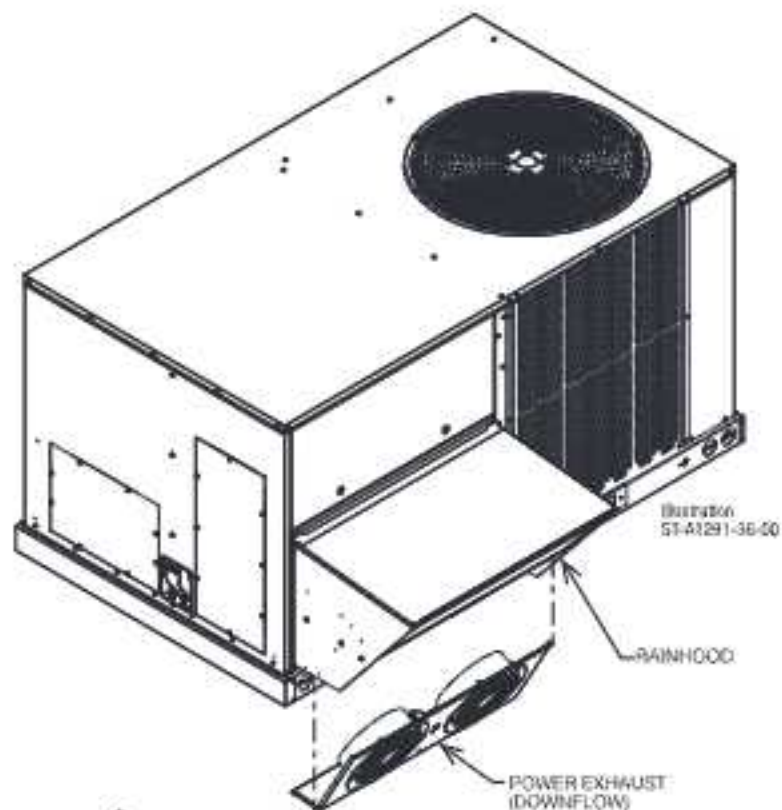
[ ] Designates Metric Conversions

## POWER EXHAUST KIT

RXXR-CCF02 (C or D\*)

\*Voltage Code

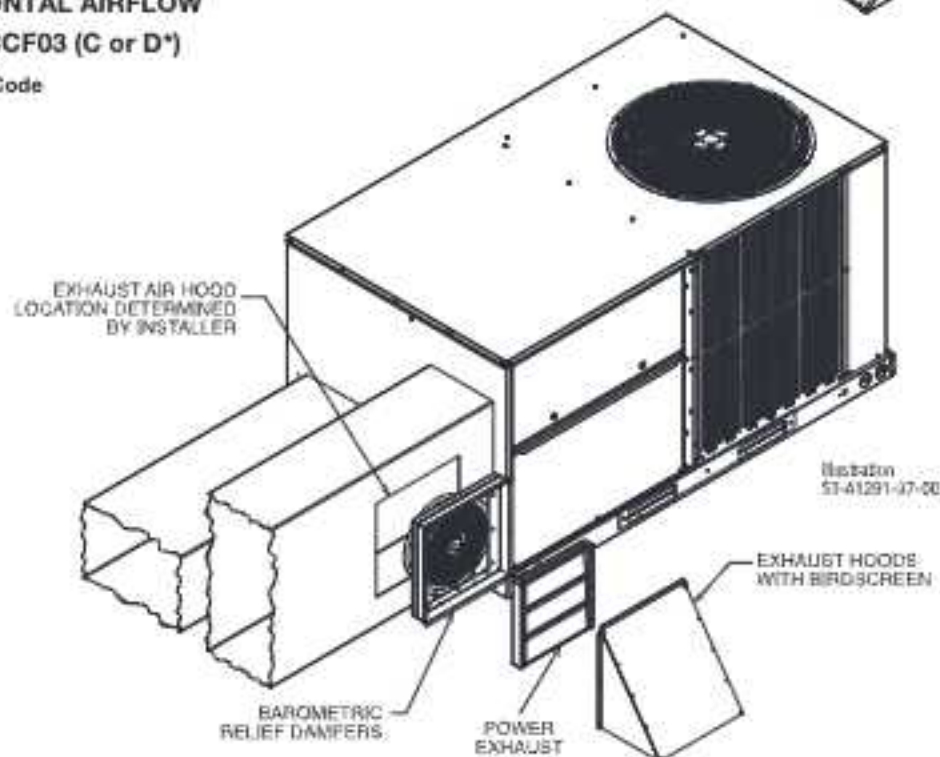
VERTICAL AIRFLOW



HORIZONTAL AIRFLOW

RXXR-CCF03 (C or D\*)

\*Voltage Code



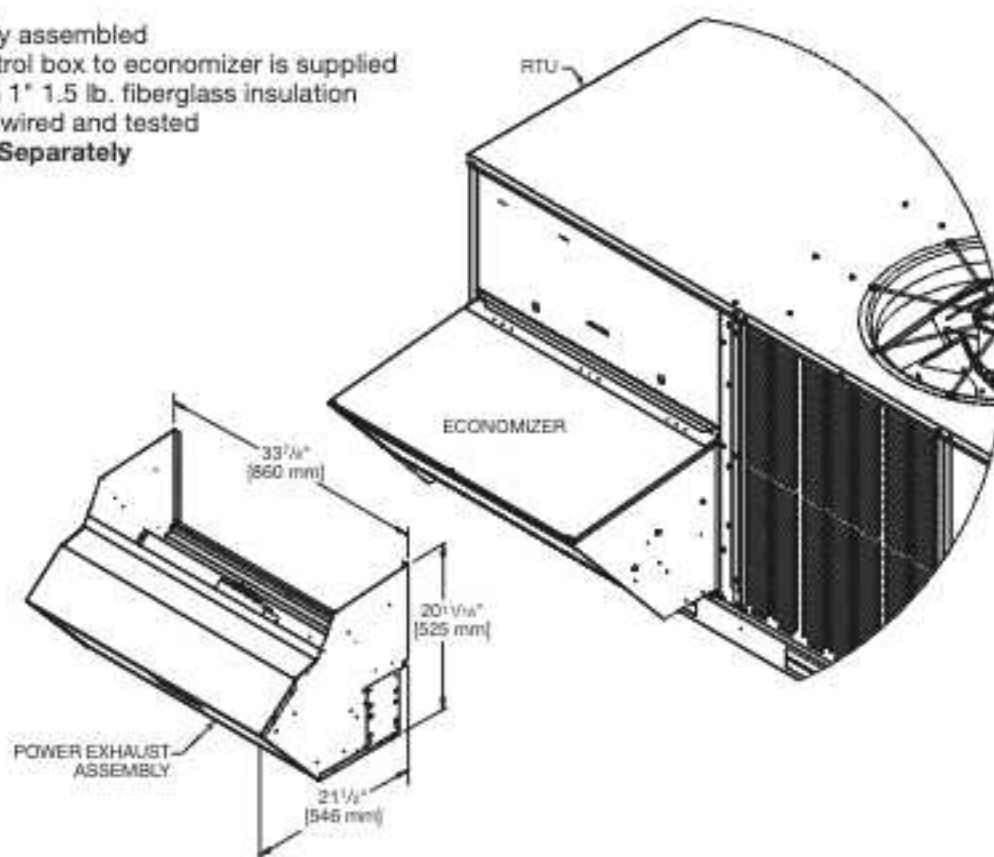
| Model No.    | No. of Fans | Volts   | Phase | HP (ea.) | CFM [L/s]* | RPM  | FLA (ea.) | LRA (ea.) |
|--------------|-------------|---------|-------|----------|------------|------|-----------|-----------|
| RXXR-CCF02-C | 2           | 208-230 | 1     | 0.47     | 2200       | 3000 | 1.55      | 1.1       |
| RXXR-CCF02-D | 2           | 460     | 3     | 0.40     | 1970       | 2750 | 0.61      | 1.9       |

## POWER EXHAUST KIT FOR VERTICAL APPLICATIONS

### RXRX-RCF02\*

\*Voltage Code: C or D

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- **Economizer Sold Separately**



[ ] Designates Metric Conversions

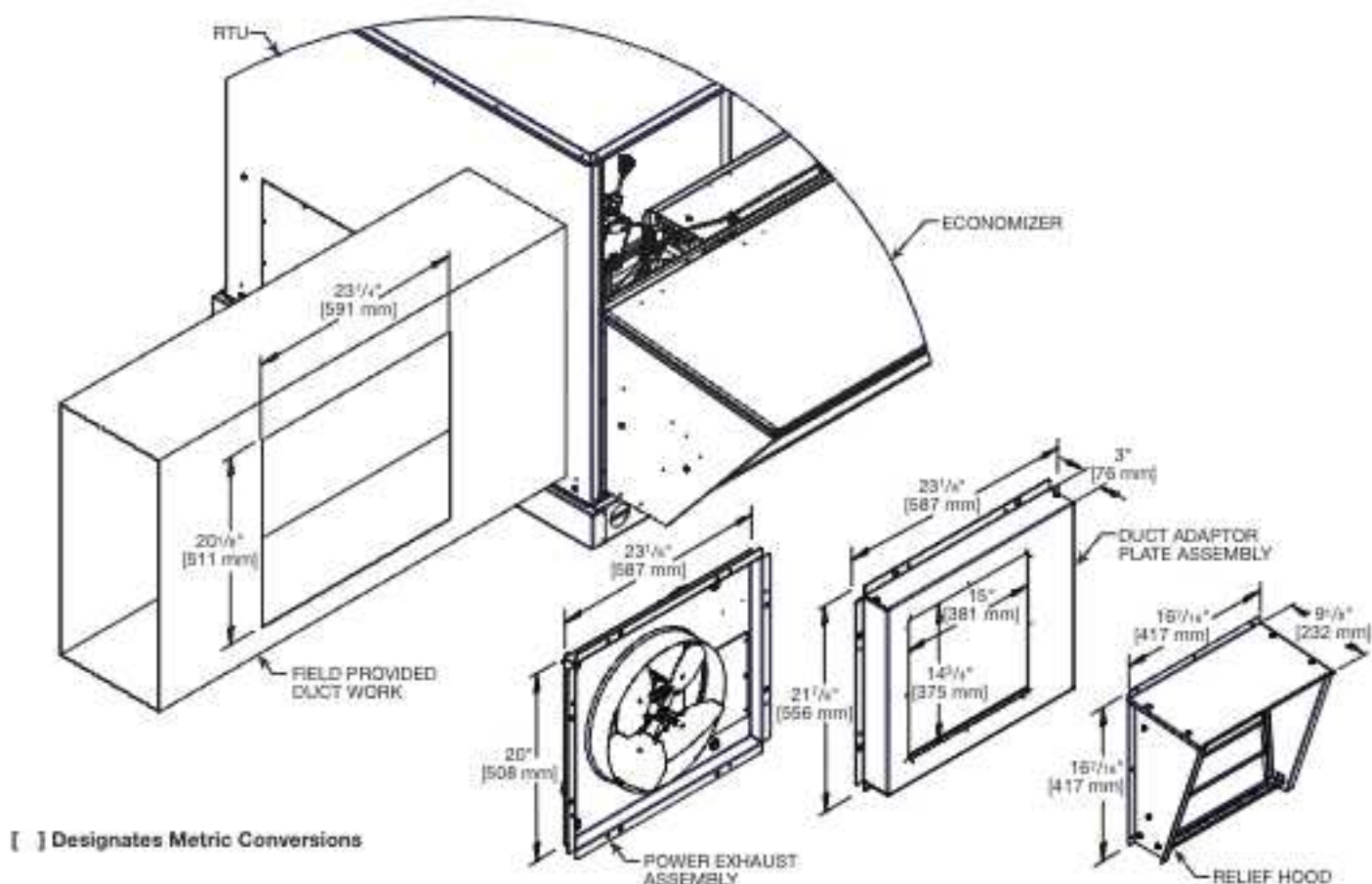
| Model No.   | Volt    | Phase | Motor |      |      |      | Unit      |      |      |           | @ 0.1 CFM |
|-------------|---------|-------|-------|------|------|------|-----------|------|------|-----------|-----------|
|             |         |       | HP    | RPM  | LRA  | Qty. | Cir. Qty. | FLA  | MCA  | Fuse Size |           |
| RXRX-RCF02C | 208-230 | 1     | 1/2   | 1625 | 5.86 | 1    | 1         | 2.70 | 3.38 | 6         | 1989      |
| RXRX-RCF02D | 460     |       |       |      | 3.33 |      |           | 1.34 | 1.68 | 3         |           |

## POWER EXHAUST KIT FOR HORIZONTAL APPLICATIONS

### RXRX-RCF03\*

\*Voltage Code: C or D

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- Economizer with Relief Hood Sold Separately

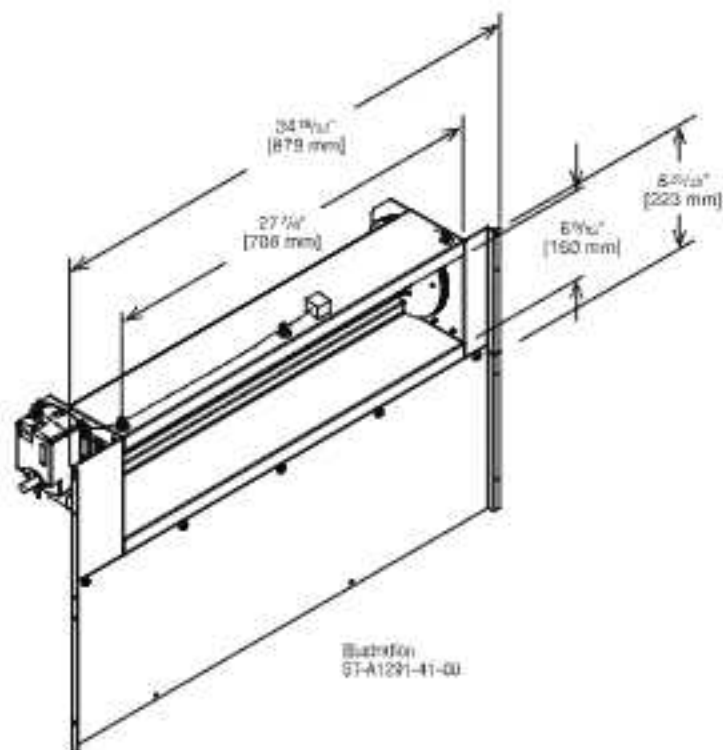


| Model No.   | RSI Model No. | Volt    | Phase | Motor |      |      |      | Unit      |      |      |           | @ 0.1 CFM |
|-------------|---------------|---------|-------|-------|------|------|------|-----------|------|------|-----------|-----------|
|             |               |         |       | HP    | RPM  | LRA  | Qty. | Cir. Qty. | FLA  | MCA  | Fuse Size |           |
| RXRX-RCF03C | 58-470-30-21  | 208/230 | 1     | 1/2   | 1625 | 5.86 | 1    | 1         | 2.70 | 3.38 | 6         | 2013      |
| RXRX-RCF03D | 58-470-30-31  | 460     |       |       |      | 3.33 |      |           | 1.34 | 1.68 | 3         |           |

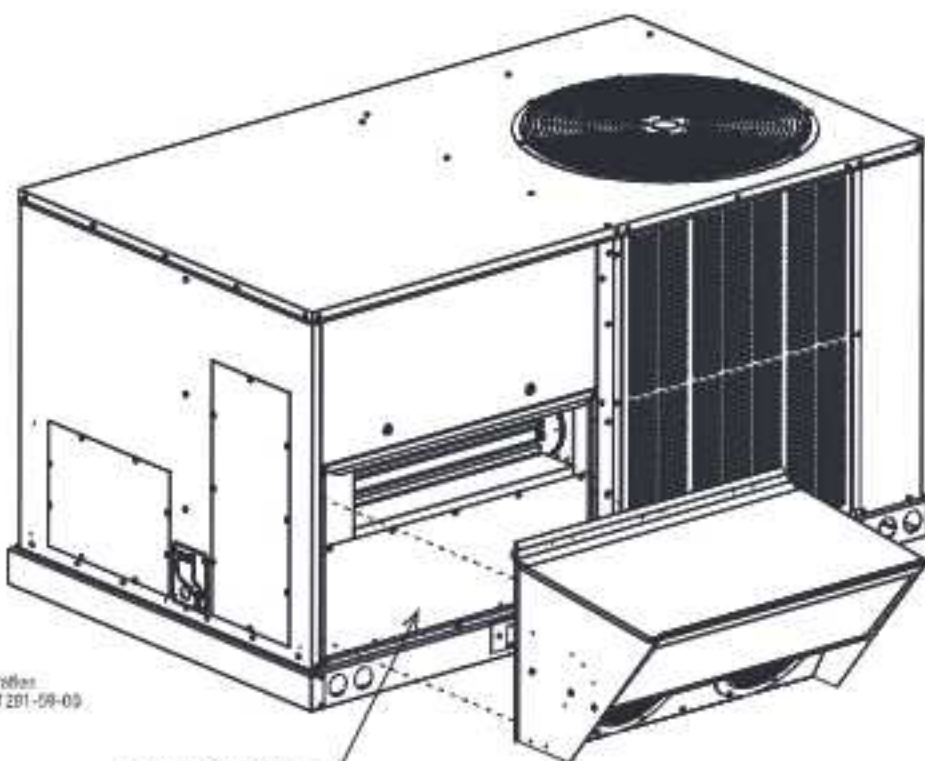
NOTE: Example: 58-470-30-21 (For 208/230 volt 1 phase motor).

## FRESH AIR DAMPER

### MOTORIZED DAMPER KIT RXRF-ACB1



[ ] Designates Metric Conversions

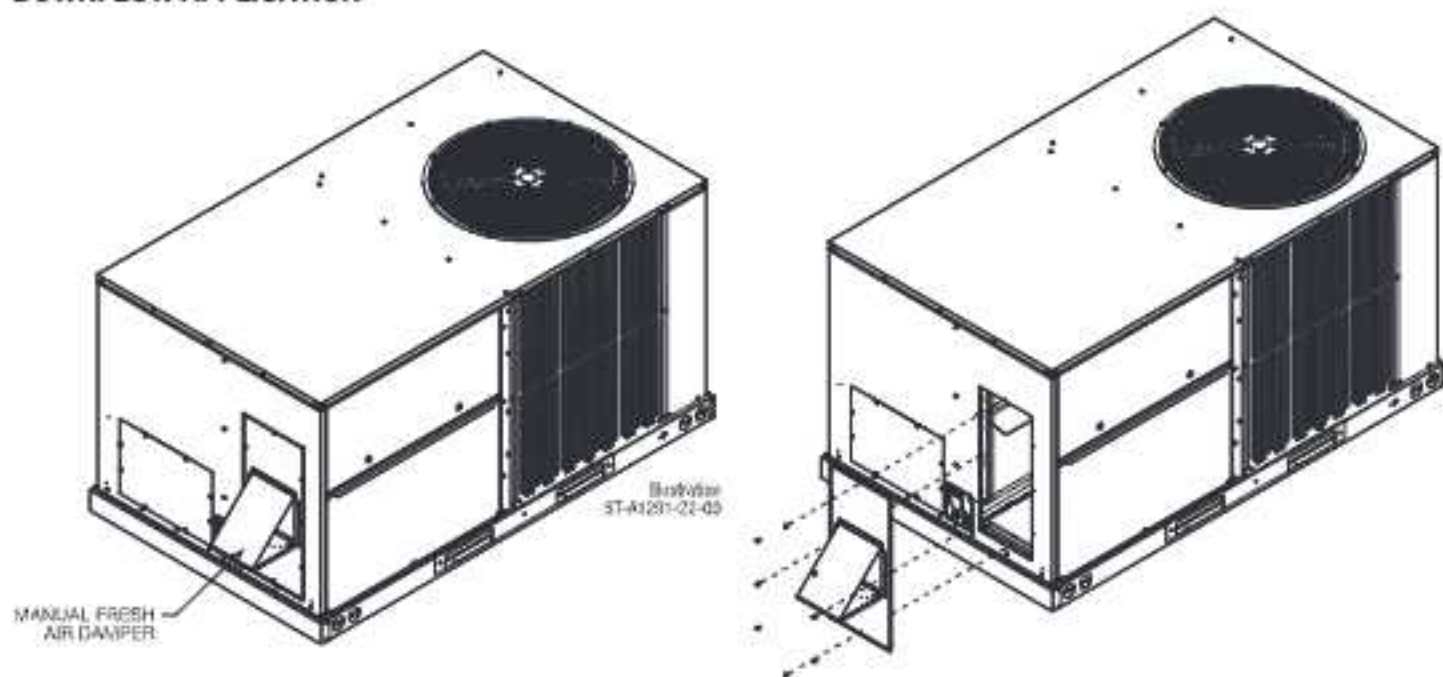


- Features **Siemens** Actuator
- Gear Driven Direct Drive Actuator
- Adjustable to 2 positions
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary

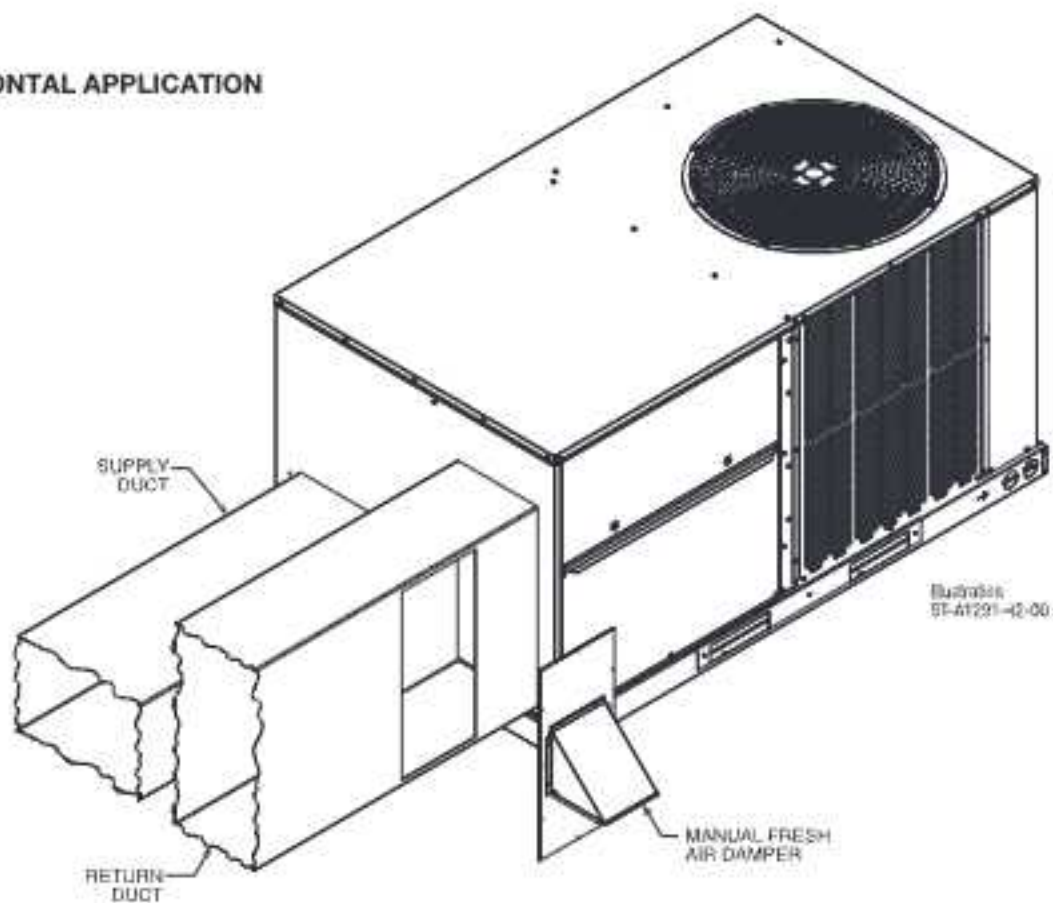
## FRESH AIR DAMPER

### MANUAL DAMPER KIT RXRF-ACA1

#### DOWNFLOW APPLICATION

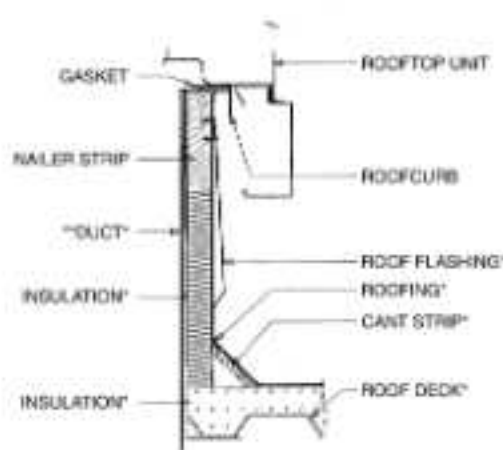


#### HORIZONTAL APPLICATION



## ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on all 3-6 ton [10.6-17.6 kW] RHPC- models
- 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, gas piping, condensate, connection opening provided on the unit base pan
- 1" [25 mm] x 4" [102 mm] Nailers provided
- Sealing gasket (40' [12.2 m]) provided with Roofcurb
- Packaged for easy field assembly



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

| View | Roofcurb Model | Height of Curb |
|------|----------------|----------------|
| A    | RXKG-DCC14     | 14" [356 mm]   |
| A    | RXKG-DCC24     | 24" [610 mm]   |

## ROOFCURB INSTALLATION

### VIEW A

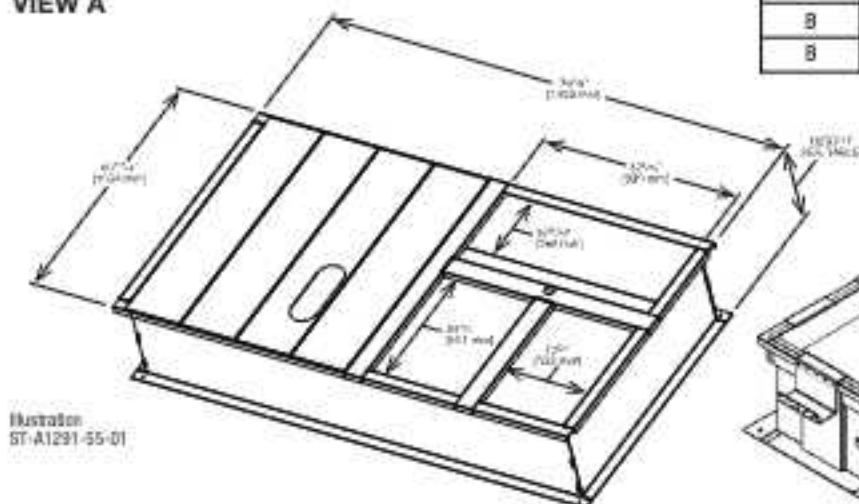
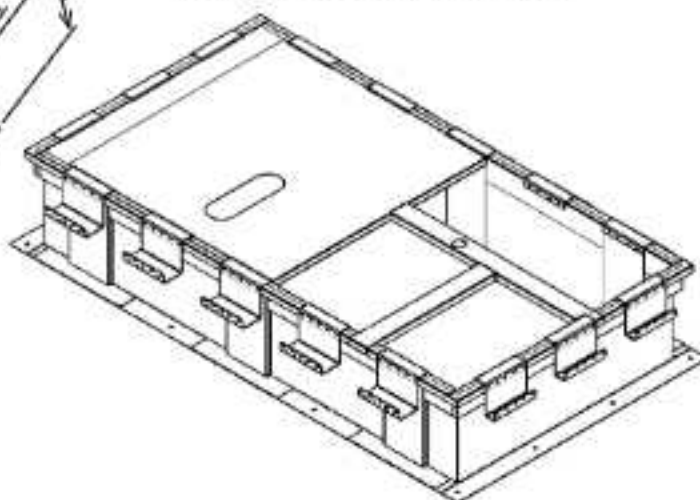


Illustration  
ST-A1291-55-01

| View | Roofcurb Model | Dimensions                |
|------|----------------|---------------------------|
| B    | RXKG-DC14      | 74.875" x 40.688" x 14.0" |
| B    | RXKG-DC24      | 74.875" x 40.688" x 24.0" |

### WELDED ROOFCURB VIEW B

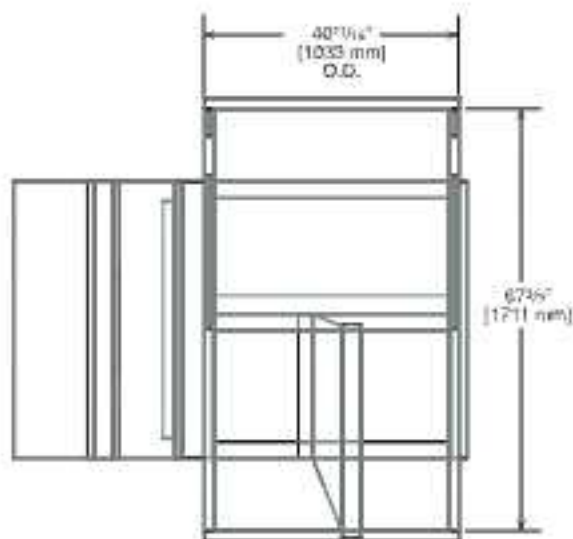


- State of Florida Approved: Approval Number FL 26981 for Technical Evaluation Report TER-20-28788 certifies the HVAC Unit and mounting methods for high wind resistance are compliant per Florida Building Code.

[ ] Designates Metric Conversions

## ROOFCURB ADAPTERS (CON'T.)

RXRX-DCCAE



| Approximate Static Pressure Drop |
|----------------------------------|
| @1200 CFM = 0.05" w.g.           |
| @2000 CFM = 0.19" w.g.           |

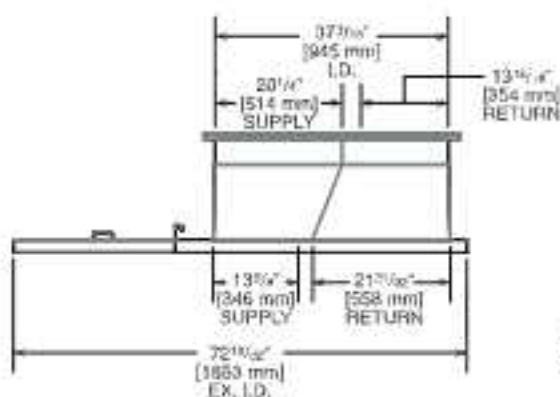
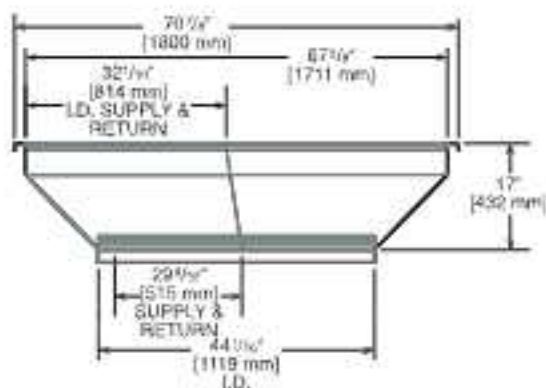
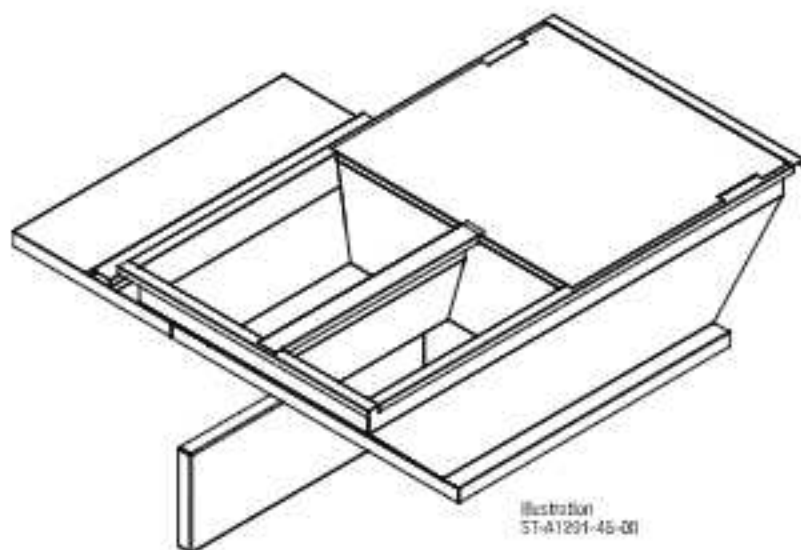


Illustration  
SI-A0291-44-00

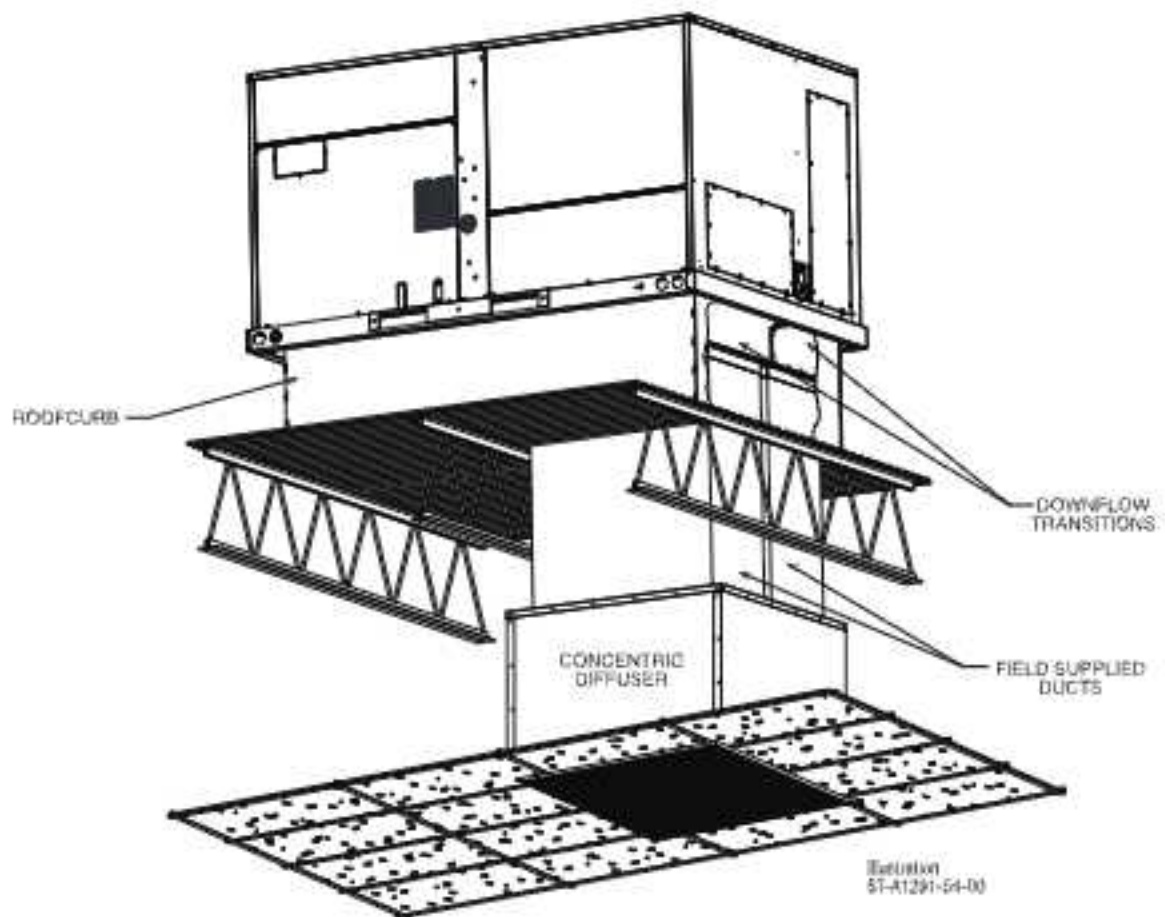


TOP VIEW



[ ] Designates Metric Conversions

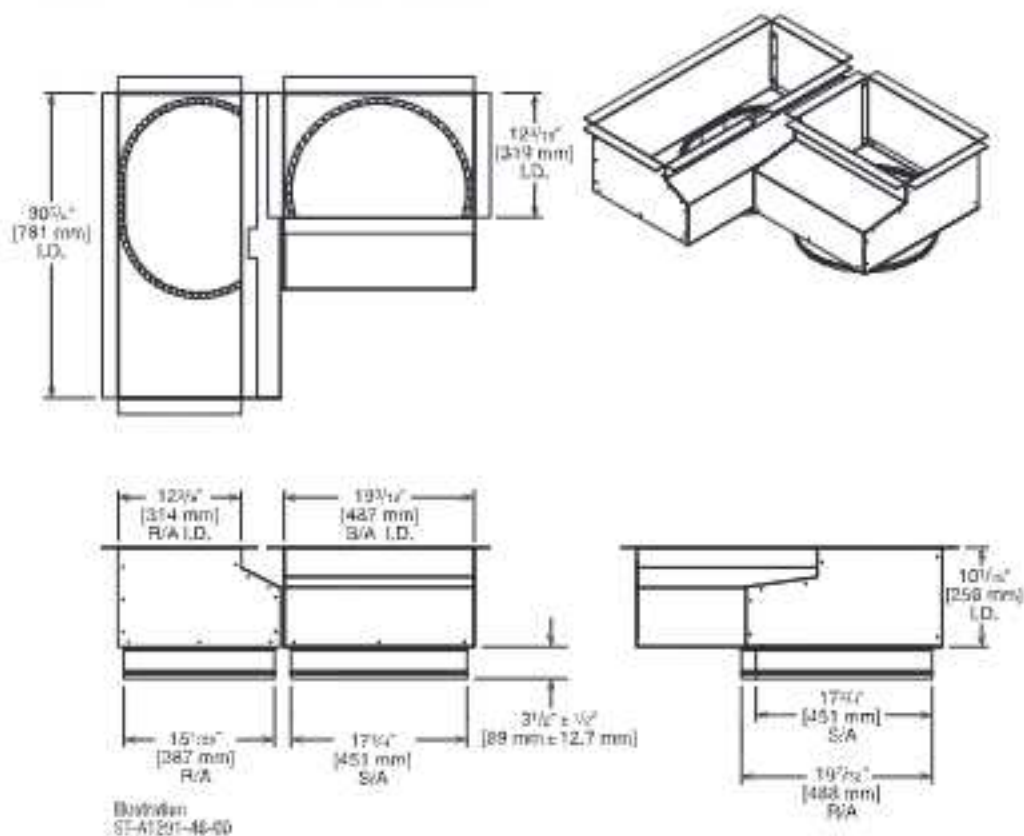
## CONCENTRIC DIFFUSER APPLICATION



## DOWNFLOW TRANSITION DRAWINGS

### RXMC-DC01 Concentric Adapter 3-4 Ton [10.6 and 14.1 kW] Drop

■ Used with AEF1800 or AED1800 Concentric Diffusers.



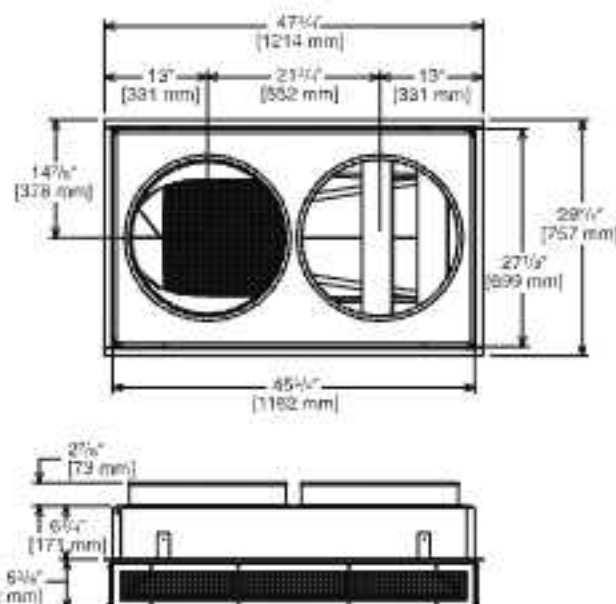
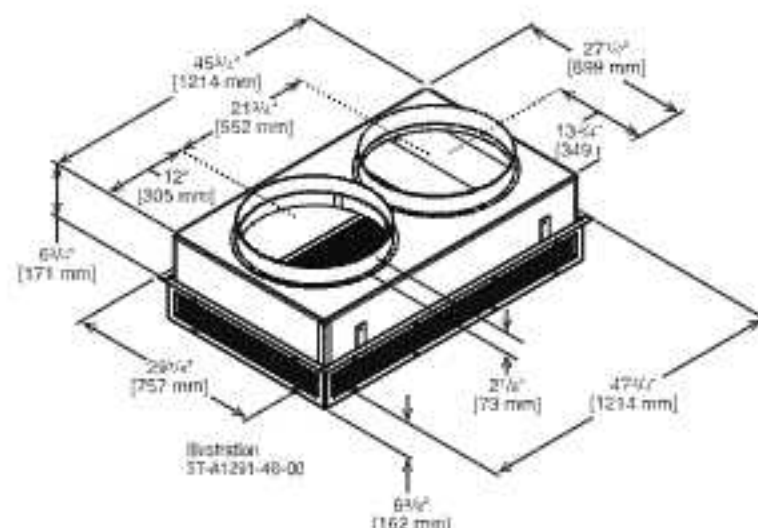
[ ] Designates Metric Conversions

## CONCENTRIC DIFFUSER—STEP DOWN

RXRN-AED1800 (3 and 4 Ton [10.6 and 14.1 kW] Models)

For Use With Downflow Transition (RXMC-DC01)  
 and 18" [457 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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner



## ENGINEERING DATA<sup>(1)</sup>

| Model No.    | Flow Rate<br>CFM [L/s] | Throw ② ③<br>Feet [m] | Neck Velocity<br>fpm [m/s] | Noise Level ④<br>(dBA) |
|--------------|------------------------|-----------------------|----------------------------|------------------------|
| RXRN-AED1800 | 1000 [472]             | 9-23 [2.7-7.0]        | 391 [2.0]                  | 12                     |
|              | 1200 [566]             | 10-24 [3.0-7.3]       | 469 [2.4]                  | 15                     |
|              | 1400 [661]             | 12-26 [3.7-7.9]       | 547 [2.8]                  | 19                     |
|              | 1600 [755]             | 13-28 [4.0-8.5]       | 625 [3.2]                  | 21                     |
|              | 1800 [849]             | 15-30 [4.6-9.1]       | 703 [3.6]                  | 26                     |
|              | 2000 [944]             | 17-32 [5.2-9.8]       | 781 [4.0]                  | 30                     |
|              | 2400 [1133]            | 19-34 [5.8-10.4]      | 859 [5.8]                  | 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

RXRN-AEF1800 (3 and 4 Ton [10.6 and 14.1 kW])

For Use With Downflow Transition (RXMC-DC01)  
18" [457 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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner

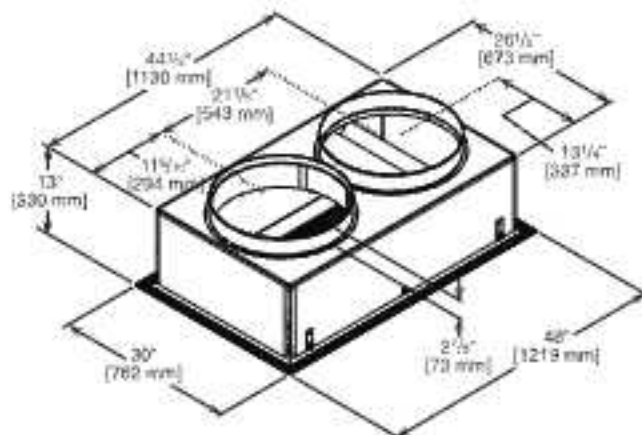
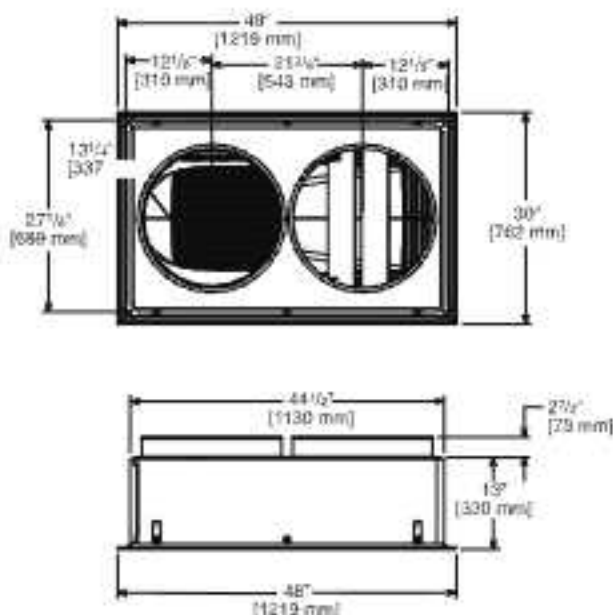


Illustration  
SI-A1291-49-00



## ENGINEERING DATA<sup>①</sup>

| Model No.    | Flow Rate<br>CFM [L/s] | Throw <sup>② ③</sup><br>Feet [m] | Neck Velocity<br>fpm [m/s] | Noise Level <sup>④</sup><br>(dbA) |
|--------------|------------------------|----------------------------------|----------------------------|-----------------------------------|
| RXRN-AEF1800 | 1000 [472]             | 9-12 [2.7-3.7]                   | 663 [3.4]                  | 20                                |
|              | 1200 [566]             | 12-16 [3.7-4.9]                  | 714 [3.6]                  | 25                                |
|              | 1400 [661]             | 15-20 [4.6-6.1]                  | 765 [3.9]                  | 30                                |
|              | 1600 [755]             | 17-23 [5.2-7]                    | 816 [4.1]                  | 30                                |
|              | 1800 [849]             | 20-26 [6.1-7.9]                  | 867 [4.4]                  | 35                                |
|              | 2000 [944]             | 22-29 [6.7-8.8]                  | 918 [4.7]                  | 40                                |
|              | 2400 [1133]            | 25-32 [7.6-9.8]                  | 969 [4.9]                  | 45                                |

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

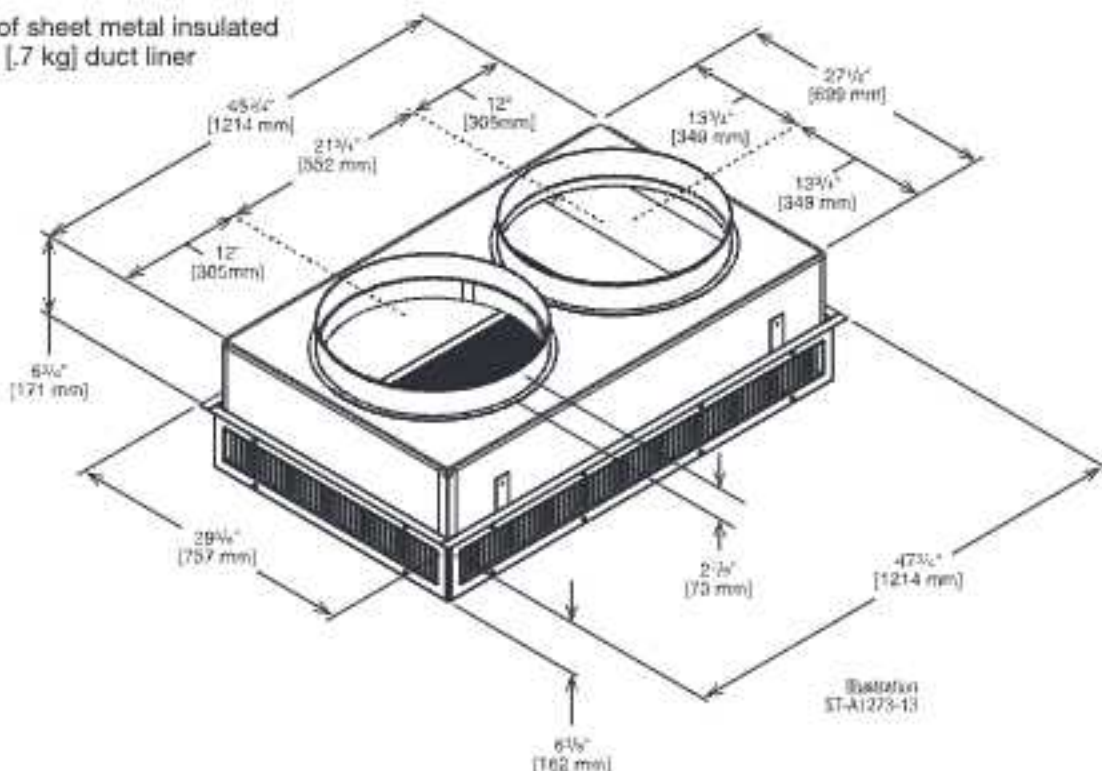


## CONCENTRIC DIFFUSER—STEP DOWN

RXRN-AED2000 (5 Ton [17.6 kW] Models)

For Use With Downflow Transition (RXMC-DC02)  
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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner



## ENGINEERING DATA<sup>①</sup>

| Model No.    | Flow Rate<br>CFM [L/s] | Throw <sup>②</sup> ③<br>Feet [m] | Neck Velocity<br>fpm [m/s] | Noise Level <sup>④</sup><br>(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                                |

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

RXRN-AEF2000 (5 Ton [17.6 kW])

For Use With Downflow Transition (RXMC-DC02)  
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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner

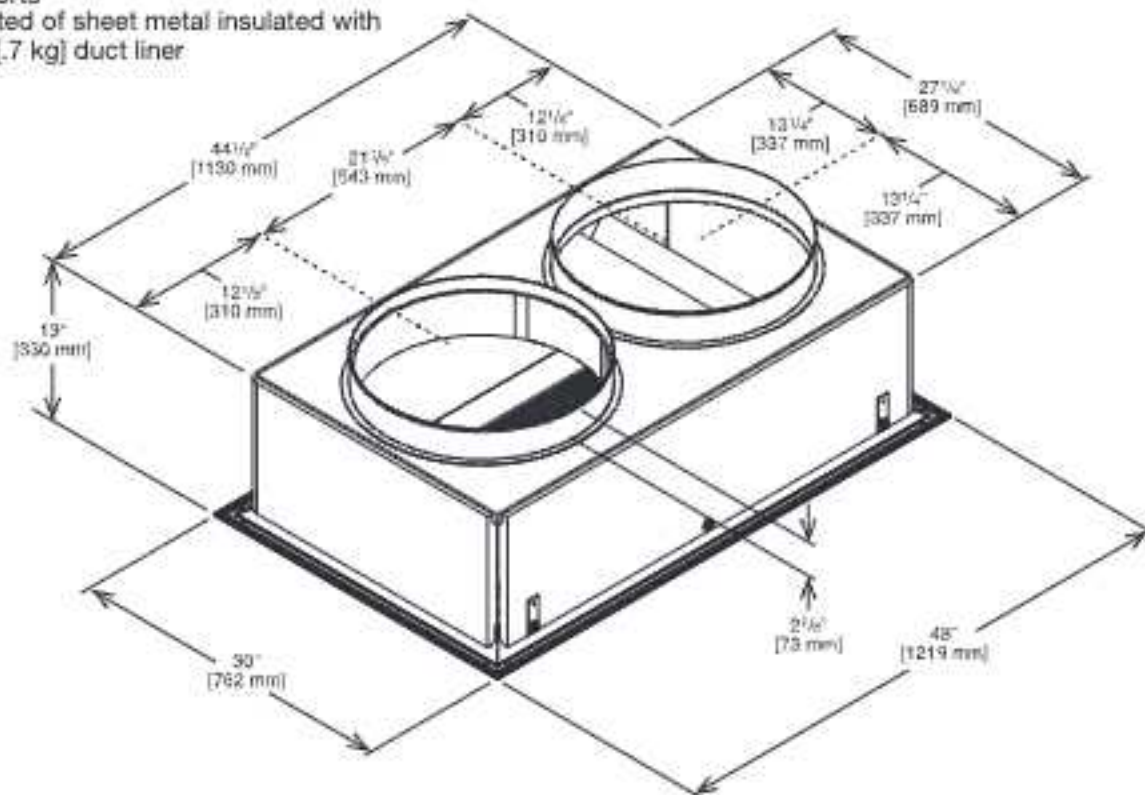


Illustration  
SI-A1273-14-00

### ENGINEERING DATA<sup>(1)</sup>

| Model No.    | Flow Rate<br>CFM [L/s] | Throw <sup>(2)</sup> [3]<br>Feet [m] | Neck Velocity<br>fpm [m/s] | Noise Level <sup>(4)</sup><br>(dba) |
|--------------|------------------------|--------------------------------------|----------------------------|-------------------------------------|
| 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                                  |

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 RHPC-036— 072

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### ELECTRIC HEAT PACKAGED ROOFTOP

#### HVAC Guide Specifications

##### Size Range: 3 to 6 Nominal Tons

- 1.00 General
  - A. 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.
  - B. 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.
  - C. Unit shall use environmentally safe, R-454B refrigerant.
  - D. Unit shall be installed in accordance with the manufacturer's instructions.
  - E. Unit must be selected and installed in compliance with local, state, and federal codes.
  - F. Model and serial data shall be printed inside the control box.
- 1.01 Quality Assurance
  - A. Unit meets ASHRAE 90.1 2022 minimum efficiency requirements.
  - B. Unit shall be rated in accordance with AHRI Standards 210/240 or 340/360 and 10 CFR appendix M1 to subpart B or part 430.
  - C. Unit shall be designed to conform to ASHRAE 15.
  - D. Unit shall be UL-tested and certified in accordance with Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
  - E. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
  - F. Unit casing shall be capable of withstanding 1000-hour salt spray exposure per ASTM B117 (scribed specimen).
  - G. Roof curb shall be designed to conform to NRCA Standards.
  - H. 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.
  - I. Unit shall be designed in accordance with UL Standard 60335-2-40 4th Edition, including tested to withstand rain.
- 1.02 Manufacturer Qualifications
  - A. Unit shall be designed in accordance with ISO 9001:2015 and shall be manufactured in a facility registered by ISO 9001:2015.
- 1.03 Installer Qualifications
  - A. The installer shall be trained to install and service equipment with A2L refrigerants.
- 1.04 Delivery, Storage, and Handling
  - A. Unit shall be stored and handled per manufacturer's recommendations.
  - B. Lifted by crane requires either shipping top panel or spreader bars.
  - C. Unit shall only be stored or positioned in the upright position.
- 1.05 Unit Cabinet
  - A. Unit cabinet shall be constructed of galvanized steel.
  - B. Unit cabinet exterior paint shall be: pre-painted steel.
  - C. The sheet-metal cabinet shall be constructed of 18-gauge material for structural components with an underlying coat of G90.
  - D. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210 or 360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2-in. thick, 1.6 lb density, flexible fiberglass insulation, foil faced on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
  - E. Base of unit shall have a location for thru-the-base gas and electrical connections standard.
  - F. Base Rail
    - A. Unit shall have base rails on a minimum of 4 sides.
    - B. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
    - C. Holes shall be provided in the base rail for moving the rooftop for fork truck.
    - D. Base rail shall be a minimum of 14 gauge thickness.

- G. Condensate pan and connections:
  - A. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
  - B. Shall comply with ASHRAE Standard 62.
  - C. Shall use a 3/4" NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
  - D. Shall be able to be easily removed.
  - E. Shall be separate from the coil.
- H. Standard factory-installed condensate overflow sensor.
- I. Top panel:
  - A. Shall be a single piece top panel over indoor section.
- J. Electrical Connections
  - A. All unit power wiring shall enter unit cabinet a a single, factory-prepared, continuous raised flange opening in the basepan.
  - B. Thru-the-base capability
    - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the basepan.
    - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
- K. Component access panels (standard)
  - A. Cabinet panels shall be easily opened for servicing.
  - B. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and filters shall have hinges with 1/4 turn fasteners on units with factory-installed hinged option.
  - C. 1/4 fasteners shall be permanently attached.
- 1.06 Operating Characteristics
  - A. 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.
  - B. Compressor with standard controls shall be capable of operation down to 50°F (10°C), ambient outdoor temperatures. Low ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 0°F (-17.7°C).
  - C. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
  - D. Unit shall be factory configured for vertical supply & return configurations.
  - E. Unit shall be field convertible from vertical to horizontal configuration.
- 1.07 Electrical Requirements
  - A. Main power supply voltage, phase, and frequency must match those required by the manufacturer.
- 1.08 Evaporator fan compartment:
  - A. Interior cabinet surfaces shall be insulated with a minimum 1/2-in. thick, minimum 1.6 LB density, flexible fiberglass insulation bonded with foil face on the air side.
  - B. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
  - C. Insulation shall also be mechanically fastened with welded pin and retainer washer.
- 1.09 Thermostats
  - A. Thermostat must:
    - i. Energize both "W" and "G" when calling for heat.
    - ii. Have capability to energize 1 stage of cooling, and at least 1 stage of heating.
    - iii. In 6 ton units, shall have the capability to energize to 2 stages.
    - iv. Include capability for occupancy scheduling.
- 1.10 Electronic Control System for HVAC
  - A. Shall be complete with self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side.
  - B. Shall utilize color-coded wiring.
  - C. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.

#### 1.10.01 Safeties:

- A. Compressor over-temperature, over current.
- B. Standard Low-pressure switch.
  - i. Units shall have low pressure, loss of charge automatic reset device that will shut off compressor when tripped.
  - ii. Low pressure control:  
Provides active protection in both heating and cooling modes at all outdoor ambient temperatures. The low pressure control is an automatic reset type and opens at approximately 15 psig and closes at approximately 40 psig. Operation is slightly different between cooling and heating modes.
- C. Standard High-pressure switch.
  - i. Unit shall be equipped with high pressure switch device that will shut off compressor when tripped.
  - ii. High pressure control:  
The high pressure control is an automatic reset type and opens at approximately 610 psig and closes at approximately 420 psig. The compressor and fan motor will stop when the high pressure control opens and will start again if the high side pressure drops to approximately 420 psig where the automatic reset high pressure control resets. If the high pressure control opens 3 times within a particular call for heating or cooling operation, the defrost control will lock out compressor and outdoor fan operation.
- D. Automatic reset, motor thermal overload protector.
- E. The unit must be permanently grounded.
- F. Components are not compatible between different refrigerants. Do not use R-410A service equipment or components on R-454B equipment. System or part failure could occur.
- G. Heating section shall be provided with the following minimum protections:
  - A. High-temperature limit switches.
  - B. Induced draft motor pressure switch.
  - C. Flame rollout switch.
  - D. Flame proving controls.

#### 1.11 Standard Filter Section

- A. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
- B. Unit will accept both 2-in. and 4-in. filters.
- C. Filter face velocity shall not exceed 365 fpm at nominal airflows.
- D. Filters shall be accessible through an access panel with "no-tool" removal as described in the unit cabinet section of the specification.
- E. Filters access is specified in the unit cabinet section of this specification.
- F. Filters shall be held in place by metal rods, facilitating easy removal and installation.

#### 1.12 Coils

- A. Standard Aluminum/MicroChannel Coils:
  - i. Standard evaporator and condenser coils shall be aluminum.
  - ii. Evaporator and condenser coils shall be leak tested to 150 psig, pressure tested to 400 psig, and qualified to burst test at 2,200 psi.

#### 1.13 Refrigerant Components

- A. Refrigerant circuit shall include the following control, safety, and maintenance features:
  - i. TXV metering system shall prevent mal-distribution of two-phase refrigerant.
  - ii. Refrigerant filter drier.
  - iii. Service gauge connections on suction and discharge lines.
  - iv. External pressure gauge ports access shall be located in front exterior of cabinet.
  - v. External gauge ports shall be lockable.
- B. Compressors
  - i. Unit shall use one fully hermetic scroll compressor.
  - ii. 3-5 ton YB units include one single-stage compressor.
  - iii. 6 ton YB units include one two-stage compressor.
  - iv. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
  - v. Compressors shall be internally protected from high discharge temperature conditions.
  - vi. Compressors shall be protected from an over-temperature and over-ampage conditions by an internal, motor overload device.
  - vii. Compressor shall be factory mounted on rubber grommets.

- viii. Compressor motors shall have internal line break thermal and current overload protection.
- ix. Crankcase heaters shall not be required for normal operating range.
- x. Compressor shall have molded electrical plug.

#### 1.14 Evaporator Fan and Motor

- A. Evaporator Fan Motor:
  - i. Shall have permanently lubricated bearings.
  - ii. Shall have inherent automatic-reset thermal overload protection.
- B. Direct Drive Evaporator Fan:
  - i. Direct drive ECM technology with (5) dedicated speed selections as follows: fan, low, high, AC low static, AC high static.
  - ii. Blower fan shall be double-inlet type with forward-curved blades.
  - iii. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.
- C. Blower Assembly:
  - i. Entire assembly shall be able to slide out completely.
  - ii. Shall be able to slide-out without the removal of the roof and condenser fan motors.

#### 1.15 Condenser Fans and Motors

- A. Condenser Fan Motor:
  - i. Shall be a totally enclosed motor.
  - ii. Shall use permanently lubricated bearings.
  - iii. Shall have inherent thermal overload protection with an automatic reset feature.
  - iv. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.
- B. Condenser Fan:
  - i. Shall be a direct-driven propeller type fan.
  - ii. Shall have blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

#### 1.16 RTU-C Controller

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

#### 1.17 Open protocol, direct digital controller

- A. Shall be ASHRAE 62-2001 compliant.
- B. Shall accept 18-30VAC, 50-60Hz, and consumer 15VA or less power.
- C. Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% - 90% RH (non-condensing).
- D. 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.
- E. The BACnet plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes).
- F. The LonWorks plug in communication card shall include the Echelon processor required for all Lon applications.

- G. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers.
- H. Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
- I. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs and all analog inputs.
- J. 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.
- K. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust.
- L. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.
- M. Shall be natively equipped with Modbus communication protocol.

#### 1.18 Special Features

##### A. Integrated Economizers:

- i. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
- ii. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory-installed option.
- iii. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
- iv. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
- v. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
- vi. Shall be equipped with low-leakage dampers, not to exceed 2% leakage at 1 in. wg pressure differential.
- vii. Shall be capable of introducing up to 100% outdoor air.
- viii. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
- ix. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
- x. Enthalpy sensor shall be provided as standard. Outdoor air sensor set point shall be adjustable and shall range from 40 to 100°F / 4 to 38°C. Additional sensor options shall be available as accessories.
- xi. 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%.
- xii. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper set point.
- xiii. Dampers shall be completely closed when the unit is in the unoccupied mode.
- xiv. Economizer controller shall accept a 2-10Vdc CO<sub>2</sub> sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
- xv. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- xvi. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
- xvii. Economizer wire harness will have provision for smoke detector available in supply and return options.
- xviii. Shall provide fault detection and diagnostics (FDD) system in accordance with local code. Faults shall be communicated out on an alarm signal.

##### B. Manual damper

- i. 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.

##### C. Condenser Coil Hail Guard Assembly

- i. Shall protect against damage from hail.
- ii. Shall be louvered style.

##### D. Unit-Mounted, Non-Fused Disconnect Switch:

- i. Switch shall be factory-installed, internally mounted.
- ii. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
- iii. Shall be accessible from outside the unit.
- iv. Shall provide local shutdown and lockout capability.

- E. Convenience Outlet:
- Non-Powered convenience outlet.
  - Outlet shall be powered from a separate 115-120v power source.
  - A transformer shall not be included.
  - Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
  - Outlet shall include 15 amp GFI receptacle with independent fuse protection.
  - Outlet shall be accessible from outside the unit.
- F. Propeller Power Exhaust:
- Power exhaust shall be used in conjunction with an integrated economizer.
  - Independent modules for vertical or horizontal return configurations shall be available.
  - Horizontal power exhaust shall be mounted in return ductwork.
  - 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.
  - Capable of adjustable but constant volume.
- G. Roof Curbs (Vertical):
- Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
  - Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- H. Return Air Enthalpy Sensor:
- The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
- I. Indoor Air Quality (CO<sub>2</sub>) Sensor:
- Shall be able to provide demand ventilation indoor air quality (IAQ) control.
  - The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.
- J. Smoke Detectors:
- Shall be a Four-Wire Controller and Detector.
  - Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
  - Shall use magnet-activated test/reset sensor switches.
  - Shall have tool-less connection terminal access.
  - Shall have a recessed momentary switch for testing and resetting the detector.
  - Controller shall include:
- One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
  - Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
  - One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station
  - Capable of direct connection to two individual detector modules.
  - Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
- K. Barometric Relief:
- Shall include damper, seals, hardware and hoods to relieve excess building pressure.
  - Damper shall gravity-close upon shutdown.
- L. Time Guard:
- Shall prevent compressor short cycling by providing a 5-minute delay ( $\pm 2$  minutes) before restarting a compressor after shutdown for any reason.
  - One device shall be required per compressor.
- M. Standard Factory-Installed Overflow Switch:
- Switch shall monitor the condensate level in drain pan and stops compression operation when overflow conditions occur.



**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.

### **Compressor**

Commercial Applications .....Five (5) Years  
Residential Applications  
(3 to 5 ton models only) .....Ten (10) Years

### **Parts**

Commercial Applications .....One (1) Year  
Residential Applications (3 to 5 ton models only)  
(Registration Required) .....Ten (10) Years

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

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