



engineered for life™

Packaged Heat Pumps
RHPDYB Series

Commercial Renaissance® Line Classic® Series Packaged Heat Pumps



RHPDYB Series

Efficiencies up to: 11.0 EER, 14.1 IEER & 3.4 COP

Nominal Sizes: 7.5, 8.5 & 10 Tons [26.4, 29.9 & 35.2 kW]

Cooling Capacities: 86k Btu/h [25.2 kW] to 114k Btu/h [33.4 kW]

Refrigerant Type: R-454B

ASHRAE 90.1 2022 Compliant Models



TABLE OF CONTENTS

Unit Features & Benefits.....3-10

Model Number Identification11

Options12

Selection Procedure13

General Data14-20

General Data Notes21

Weighted Sound Power.....21

Gross Systems Performance Data.....22-26

Airflow Performance Data27-38

Electrical Data39-41

Electric Heater Kits.....42-44

Safety Data45

Dimensional Data46-48

Field-Installed Accessories49-71

Guide Specifications72-77

Limited Warranty78



STANDARD FEATURES INCLUDE

Manufacturing & Quality Features:

- Factory charged with R-454 refrigerant
- Wired and run tested at the factory
- Powder Paint Finish meets ASTM® B117 test requirements. G90 galvanized steel coated on each side
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers in the air stream

Performance Features:

- Cooling operation up to 125°F ambient
- Scroll compressors with internal line break overload and high-pressure protection
- Two stages of cooling and heat pump operation
- Full MicroChannel coils with patented defrost design
- High pressure and low pressure/loss of charge protection

Convenience & Serviceability Features:

- Forkable base rails for easy handling and lifting
- Color-coded and labeled wiring
- Laser-etched panel doors to identify each compartment from the exterior
- External, lockable gauge ports
- Field convertible airflow - vertical downflow or horizontal sideflow
- Solid-core liquid line filter drier
- Filter access features hinged access with heavy-duty gasketing and 1/4 turn latches
- Slide-out indoor fan assembly for added service convenience
- Slide-out, internally sloped condensate drain pan with overflow switch, conforms to ASHRAE 62 standards
- Qwik-change flex-fit filter rack for easy filter size changes
- Factory-installed refrigerant leak detection system

FACTORY-INSTALLED OPTIONS:

- Louvered panels
- Hinged access doors
- Low ambient/freeze stat
- Non-powered convenience outlet
- Vertical Economizer (Title 24 and ASHRAE 90.1 2022 compliant)
- Supply and return smoke detector
- ElectroFin® E-Coat for Microchannel Condenser Coil
- ClearControl™ Direct Digital Control (DDC)
- Comfort Alert® Phase-monitor Protection

FIELD-INSTALLED ACCESSORY EQUIPMENT

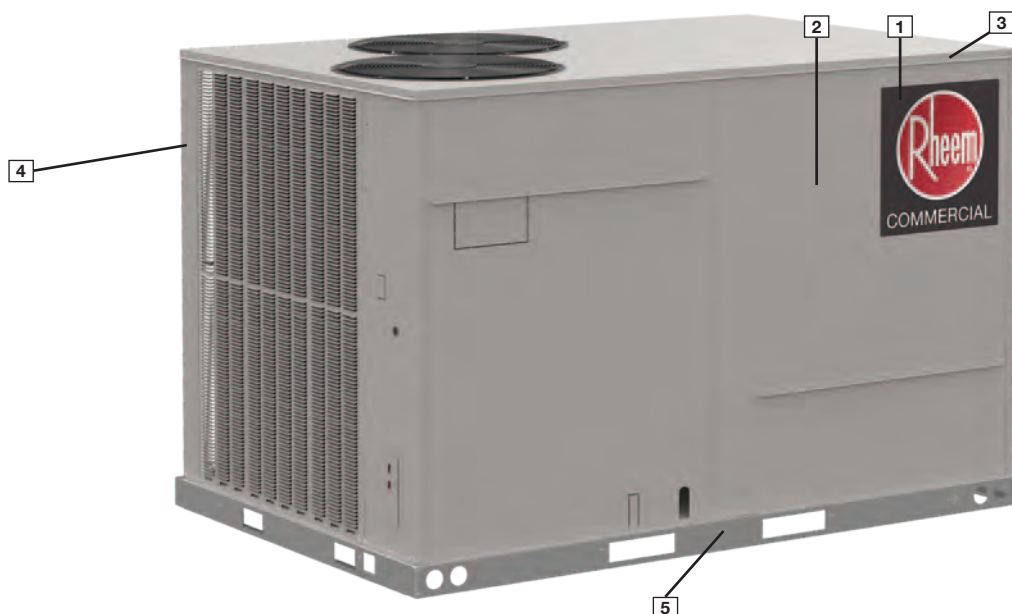
Accessory	Model Number	Factory Installation Available?
Non-DDC Economizer with No Controls (Downflow) <i>MicroMetl Economizer, Belimo® Actuator</i>	RXRD-31MDDAM3	No
Non-DDC Economizer with Single Enthalpy (Downflow) <i>MicroMetl Economizer with Siemens® Controls</i>	RXRD-11MDDAM3	Yes
Non-DDC Economizer with Single Enthalpy (Downflow) <i>RRS Economizer with Siemens Controller</i>	RXRD-51MDDAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) <i>MicroMetl Economizer with Siemens Controls</i>	RXRD-11MDHAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) <i>RRS Economizer with Siemens Controller</i>	RXRD-51MDHAM3	No
Economizer Universal DDC Interface Kit ¹	RXRX-DDC01	Yes

¹Does not have to be selected individually. This accessory will be included with the factory-installed economizer for a DDC unit if required.

FIELD-INSTALLED ACCESSORY EQUIPMENT (CONTINUED)

Accessory	Model Number	Factory Installation Available?
Power Exhaust (230V) Kit for Downflow Economizer <i>RRS</i>	RXXR-RDF01C	No
Power Exhaust (230V) Kit for Horizontal Economizer <i>RRS</i>	RXXR-RDF03C	No
Power Exhaust (230V) Kit, Convertible <i>MicroMetl</i>	RXXR-CDF01C	No
Power Exhaust (460V) Kit for Downflow Economizer <i>RRS</i>	RXXR-RDF01D	No
Power Exhaust (460V) Kit for Horizontal Economizer <i>RRS</i>	RXXR-RDF03D	No
Power Exhaust (460V) Kit, Convertible <i>MicroMetl</i>	RXXR-CDF01D	No
Power Exhaust (575V) Kit for Downflow Economizer <i>RRS</i>	RXXR-RDF01Y	No
Power Exhaust (575V) Kit for Horizontal Economizer <i>RRS</i>	RXXR-RDF03Y	No
Concentric Adapter 7.5 & 8.5 Ton Drop	RXMC-DD01	No
Concentric Adapter 10 Ton Drop	RXMC-DD02	No
Concentric Diffuser 7.5 & 8.5 Ton Drop	RXRN-AED2000	No
Concentric Diffuser 10.0 Ton Drop	RXRN-AED3415	No
Concentric Diffuser 7.5 & 8.5 Ton Flush	RXRN-AEF2000	No
Concentric Diffuser 10.0 Ton Flush	RXRN-AEF3415	No
Convenience Outlet, Non-Powered	RXXR-BN01	Yes
Electric Heater Kit 208/230V, 3ph, 10kW	RXJJ-DD10CP	Yes
Electric Heater Kit 208/230V, 3ph, 15kW	RXJJ-DD15CP	Yes
Electric Heater Kit 208/230V, 3ph, 20kW	RXJJ-DD20CP	Yes
Electric Heater Kit 208/230V, 3ph, 30kW	RXJJ-DD30CP	Yes
Electric Heater Kit 208/230V, 3ph, 40kW	RXJJ-DD40CP	Yes
Electric Heater Kit 460V, 3ph, 10kW	RXJJ-DD10DNV	Yes
Electric Heater Kit 460V, 3ph, 15kW	RXJJ-DD15DNV	Yes
Electric Heater Kit 460V, 3ph, 20kW	RXJJ-DD20DNV	Yes
Electric Heater Kit 460V, 3ph, 30kW	RXJJ-DD30DNV	Yes
Electric Heater Kit 460V, 3ph, 40kW	RXJJ-DD40DNV	Yes
Electric Heater Kit 575V, 3ph, 10kW	RXJJ-DD10Y	No
Electric Heater Kit 575V, 3ph, 15kW	RXJJ-DD15Y	No
Electric Heater Kit 575V, 3ph, 20kW	RXJJ-DD20Y	No
Electric Heater Kit 575V, 3ph, 30kW	RXJJ-DD30Y	No
Electric Heater Kit 575V, 3ph, 40kW	RXJJ-DD40Y	No
Fresh Air Damper, Manual	RXRF-ADA1	No
Fresh Air Damper, Motorized	RXRF-ADB1	No

Accessory	Model Number	Factory Installation Available?
MERV 8 Filter 7.5 & 8.5 Ton	RXMF-M08A22020	No
MERV 8 Filter 10 Ton	RXMF-M08A22520	No
MERV 13 Filter 7.5 & 8.5 Ton	RXMF-M13A22020	No
MERV 13 Filter 10 Ton	RXMF-M13A22520	No
Outdoor Coil Louver Kit - 7.5 & 8.5 Ton	RXXR-ADD04A	Yes
Outdoor Coil Louver Kit - 10 Ton	RXXR-ADD04B	Yes
Roofcurb Adapter	RXXR-DDCAE	No
Roofcurb, 14"	RXKG-DDD14	No
Roofcurb, 24"	RXKG-DDD24	No
Single Point Wiring Kit 208/230V, 60A, 7.5 Ton	RXJX-AC0605	No
Single Point Wiring Kit 208/230V, 80A, 7.5 Ton	RXJX-AC0805	No
Single Point Wiring Kit 208/230V, 90A, 8.5 & 10 Ton	RXJX-AC0909	No
Single Point Wiring Kit 460V, 40A, 7.5 Ton	RXJX-AD0405	No
Single Point Wiring Kit 460V, 40A, 8.5 & 10 Ton	RXJX-AD0409	No
Single Point Wiring Kit 460V, 60A, 7.5 Ton	RXJX-AD0605	No
Single Point Wiring Kit 460V, 60A, 8.5 & 10 Ton	RXJX-AD0609	No
Unfused Service Disconnect	RXXR-BP01	Yes
UV-C Light Kit 208/230V	RXXR-UVC34D	No
UV-C Light Kit Transformer 460 & 575V	RXXR-UVCTD	No
Comfort Alert (1 Per Compressor) 3ph, DDC	RXXR-AZ01	Yes
Comfort Alert (1 Per Compressor) 3ph, Non-DDC	RXXR-AZ02	Yes
Communication Card, BACnet®	RXXR-AY01	No
Communication Card, LonWorks®	RXXR-AY02	No
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)	PD555460	No
Freeze Stat Kit	RXXR-AM01	Yes
Low-Ambient Control Kit	RXRZ-A04	Yes
Sensor, Carbon Dioxide (Wall Mount)	RXXR-AR02	No
Sensor, Room Humidity	RHC-ZNS4	No
Sensor, Room Temperature and Relative Humidity	RHC-ZNS5	No
Smoke Detector Kit, Return	RXXR-BS03	No
Smoke Detector Kit, Return/Supply	RXXR-BS04	No



Cabinet and Foundation

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

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

Easy Installation

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

Base Pan

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



Drain Pan

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



Test Standards

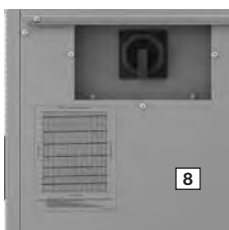
During development, each unit was tested to U.L. 60335-2-40, AHRI 340-360 as well as other Rheem-required reliability tests. Rheem adheres to stringent ISO 9001 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can be assured that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

Easy Access

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

Charging Charts, Wiring Diagrams, & Labels

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



Filter Rack

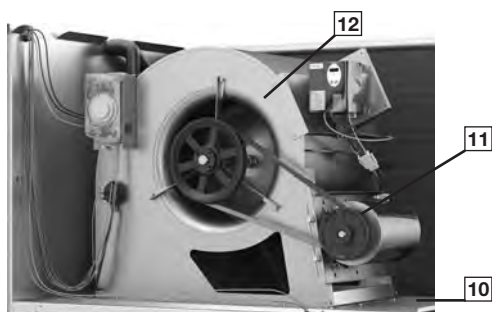
Located within the filter compartment, the Qwik-Change Flex-Fit Rack ([9]) allows easy changeover between 2" and 4" standard size and readily available filters.



Blower Assembly

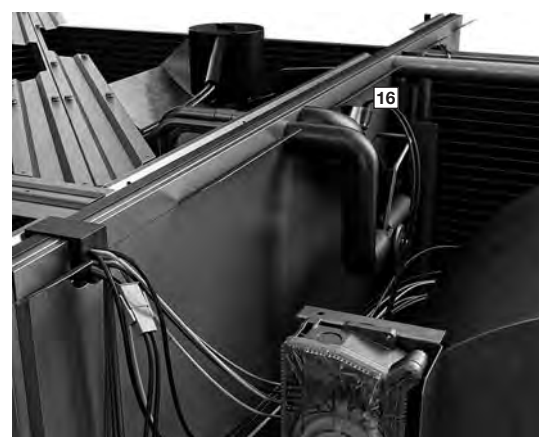
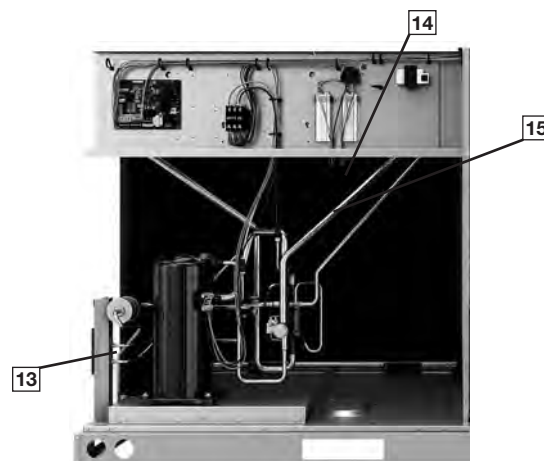
Removing three screws provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly ([10]) is incredibly easy to access and remove. This makes servicing internal components such as blower motor, TXV, and microchannel coil much easier. The entire assembly slides out by removing the 3/8" screws from the blower retention bracket. The adjustable motor pulley ([11]) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the belt. Once the pulley is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 0 to 6 turns open.

Where the demands for the job require high static, Rheem offers drives that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing ([12]) and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an "H" bushing that firmly secures the pulley to the blower shaft, resulting in years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft. This is an improvement from a set screw, which can score the shaft and create burrs that make blower-pulley removal difficult.



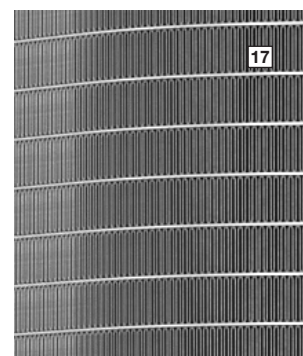
High and Low Pressure Switches & Freeze Stat

High-pressure ([13]) and low-pressure ([14]) switches are standard. They are located in the outdoor section along with the low-ambient control ([15]). The optional Freeze Stat ([16]) (standard on models with ClearControl), is clipped onto the suction line in the blower compartment. The low ambient control allows the compressor to operate down to 0 degrees ambient temperature by cycling the outdoor fans on high-pressure. The high-pressure switch shuts off the compressors if pressures exceeding 610 PSIG are detected. The low-pressure switch shuts off the compressors if low-pressure is detected due to loss of charge. Built-in Smart Logic reduces nuisance calls by only shutting off compressors after the third detection. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow.



MicroChannel Evaporator & TXV

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



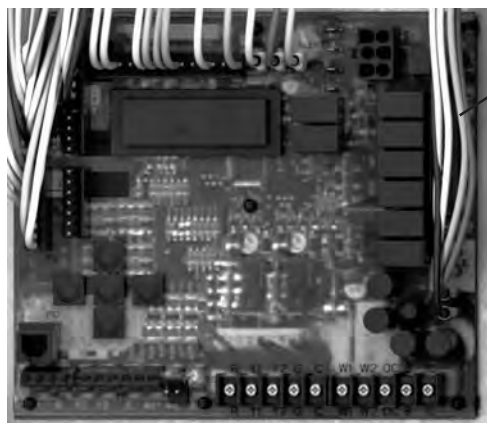
Control Box

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



ClearControl

The optional ClearControl system consisting of a rooftop unit controller, temperature sensors, and pressure sensors, allows real-time monitoring and communication between rooftop units. The Rooftop Unit Controller (RTU-C) that is factory mounted and wired into the control panel. The RTU-C is a solid-state, 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 ([19]). 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.

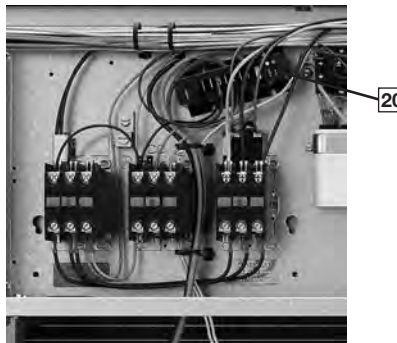


The RHPDYB with the RTU-C is specifically designed to be applied in four distinct applications:

- 1. BACnet Communication** — The RHPDYB 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 RHPDYB 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 RHPDYB 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 RHPDYB 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 ([20]) module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display, through the (BAS) network, or connected to the "L-Terminal" of a thermostat for notification.



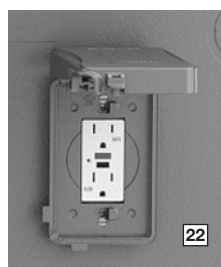
Variable Frequency Drive

The supply fan Variable Frequency Drive (VFD) (21) optimizes energy usage year round by providing a lower speed for first stage cooling operation, improving IEER over the conventional constant fan system. Operating in the constant fan mode at the reduced speed can use as little as $\frac{1}{5}$ of the energy of a conventional constant fan system. Also, by operating at a lower speed on first stage cooling, up to 126% more moisture is removed, improving comfort during low load operation. The VFD comes standard. The VFD supply fan factory option meets California Title 24 and ASHRAE 90.1-2022 requirements for multi blower speed control. VFD also ramps up to the desired speed, reducing stress on the supply fan components and noise from a sudden inrush of air. Because the airflow is cut in half during first stage cooling and constant fan operation, noise is much less during these modes of operation.



Convenience Outlet

For added convenience in the field, factory-installed option of non-powered convenience outlet (22) is available. Low and high voltage can enter from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled. The high-voltage connection is terminated at the number 1 compressor contactor.



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, (23) and low-pressure connection (24). Because the gauge ports are mounted externally, an accurate diagnostic of system operation can be performed without removing access panels. Brass caps on the Schrader fitting ensure the gauge parts are leak proof.



Compressor

The compressor compartment houses the heartbeat of the unit. The scroll compressor (25) is known for its long life and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (26) to absorb the strain and stress that the starting torque, steady state operation, and shut-down cycle impose on the refrigerant tubing. The units have two stages of efficient cooling operation. Each unit comes standard with a filter dryer.



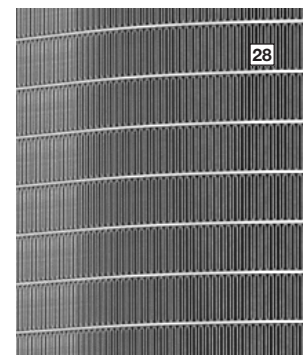
Condenser Fans

The condenser fan motors (27) 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 (28) 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 E-Coat condenser coating ([29]) 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 ([30]) 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 CO₂ set point. Barometric relief is standard on all economizers.



Power Exhaust is easily field-installed. The power exhaust is housed in the barometric relief opening and is easily slipped in with a 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 CO₂ level, mixed air temperature, and Economizer Status (free cooling available, single or dual enthalpy) can be read at the unit controller display or remotely through a network connection. Economizer faults will trigger a network alarm and can be read at the unit controller display or remotely through a network connection.

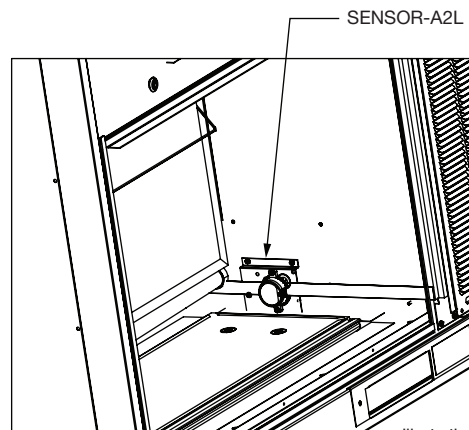
Roofcurb

The roofcurb ([31]) 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.

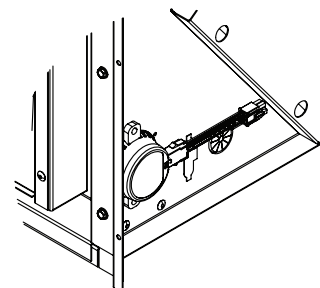
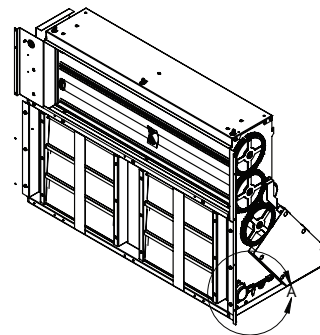
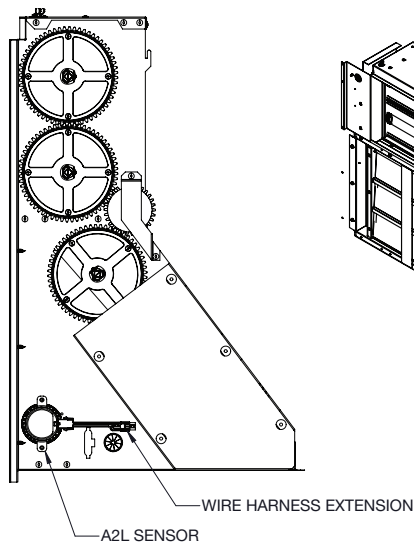


Refrigerant Leak Detection

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



If a field-installed vertical economizer will be installed during the unit installation, the A2L leak detection sensor must be relocated as shown below. For more information, refer to the unit installation and Operation Manual.



R	HP	D	Y	B	090	A	C	F	15	2	A	A	***
1	23	4	5	6	789	10	11	12	13 14	15	16	17	18 19 20

1—Brand

R = Rheem

2, 3—Unit Type

HP = Packaged Heat Pump

4—Cabinet Type

D = Medium Commercial

5—Refrigerant

Y = R-454B

6—Efficiency Level

B = Standard Efficiency

7, 8, 9—Capacity

090 = 7.5 Ton

102 = 8.5 Ton

120 = 10 Ton

10—Major Series

A = 1st Design

11—Voltage

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

D = 3 PH, 460V, 60 Hz

Y = 3PH, 575V, 60 Hz

12—Drive

F = Belt Drive – VFD Low

G = Belt Drive – VFD Medium

H = Belt Drive – VFD High

13, 14—Heat Capacity

00 = No Heat

10 = 10 kW

15 = 15 kW

20 = 20 kW

30 = 30 kW

40 = 40 kW

15—Number of Stages

0 = No stages

1 = 1 stage

2 = 2 stage

16—Control

A = CoreCommand™

B = CoreCommand &

Comfort Alert

C = ClearControl

D = ClearControl &

Comfort Alert

17—Minor Series

A = 1st Design

18, 19, 20—Option Code

See next page

FACTORY-INSTALLED OPTION CODES FOR RHPDYB (7.5 TO 10 TON)

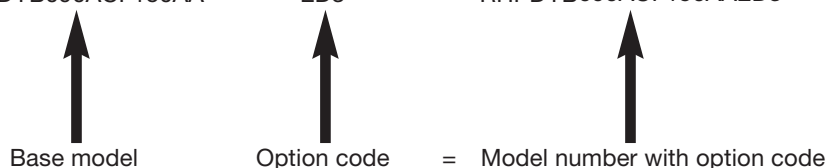
18				19			20			
LV = Louver protection				LF = Low Ambient & Freeze Stat			EC = Downflow Economizer			
HA = Hinged Access				NP = Non-powered Convenience Outlet			SS = Supply Smoke Detector			
CC = Coil Coating							RS = Return Smoke Detector			
Option code character highlighted below										
A	None			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

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, "AA0" follows the model number.

- **Step 1:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 18. For example, the option code character "E" has Louver protection and Coil Coating.
- **Step 2:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 19. For example, the option code character "D" has Low Ambient / Freeze Stat and Non-powered convenience outlet.
- **Step 3:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 20. For example, the option code character "3" has Downflow Economizer and Return Smoke.
- The resulting option code from examples above is: "ED3"
- **Step 4:** Add your option code selection to the end of model number

◦ Example: RHPDYB090ACF150AA ED3 = RHPDYB090ACF150AAED3



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

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

Example:

Voltage—	230 V – 3 Phase – 60 Hz
Total Cooling Capacity—	118,000 Btu/h [34.57 kW]
Sensible Cooling Capacity—	79,600 Btu/h [23.32 kW]
Heating Capacity—	150,000 Btu/h [40 kW]
*Condenser Entering Air—	95°F [35.0°C] DB
*Evaporator Mixed Air Entering—	65°F [18.3°C] WB 78°F [25.6°C] DB
*Indoor Air Flow (vertical)—	3600 CFM [1699 L/s]
*External Static Pressure—	0.40 in. WG [.10 kPa]

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 10 ton [35.1 kW] unit, enter cooling performance table at 95°F [35.0°C] DB condenser inlet air. Interpolate between 63°F [17.2°C] WB and 67°F [19.4°C] to determine total and sensible capacity and power input for 65°F [18.3°C] WB evaporator inlet air at 3750 CFM [1770 L/s] indoor air flow (table basis):

Total Cooling Capacity = 118,900 Btu/h [34.82 kW]
Sensible Cooling Capacity = 99,950 Btu/h [29.27 kW]
Power Input (Compressor and Cond. Fans) = 8,950 watts

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

$99,950 + (1.10 \times 3,600 \times (1 - 0.03) \times (78 - 80))$
Sensible Cooling Capacity = 92,268 Btu/h [27.02 kW]

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

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

Total Capacity = $118,900 \times 0.98 = 116,522$ Btu/h [34.12 kW]
Sensible Capacity = $92,268 \times 0.95 = 87,655$ Btu/h [25.67 kW]
Power Input = $8,950 \times 0.99 = 8,861$ Watts

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

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

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

RPM = 771
WATTS = 1,494
DRIVE = F (VFD, low static)

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

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

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

$$\text{Net Total Capacity} = 116,522 - 5,377 = 111,145 \text{ Btu/h [32.54 kW]}$$

$$\text{Net Sensible Capacity} = 87,655 - 5,377 = 82,278 \text{ Btu/h [24.09 kW]}$$

7. CALCULATE UNIT INPUT AND JOB EER.

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

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

8. SELECT UNIT HEATING CAPACITY.

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

Use 40 kW Heater Kit

Heater Kit Model: RXJJ-DD40CP Heater Kit Capacity: 135,120 Btu/h [39.6 kW]

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

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

9. CHOOSE MODEL RHPDYB120ACF402AA.

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

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	090ACF	090ACG	090ACH	090ADF
Cooling Performance^A				CONTINUED →
Nominal Cooling Capacity Btu/h [kW]	90,000 [26.37]	90,000 [26.37]	90,000 [26.37]	90,000 [26.37]
EER / IEER ^B	11/14.1	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	3,000/3,300 [1,416/1,577]	3,000/3,300 [1,416/1,577]	3,000/3,300 [1,416/1,577]	3,000/3,300 [1,416/1,577]
AHRI Net Cooling Capacity Btu/h [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu/h [kW]	64,500 [18.9]	64,500 [18.9]	64,500 [18.9]	64,500 [18.9]
Net Latent Capacity Btu/h [kW]	21,500 [6.3]	21,500 [6.3]	21,500 [6.3]	21,500 [6.3]
Net System Power [kW]	7.82	7.82	7.82	7.82
Heating Performance (Heat Pumps)				
High Temp. Btu/h [kW] Rating @ 47°F	84,000 [24.62]	84,000 [24.62]	84,000 [24.62]	84,000 [24.62]
System Power kW/COP @ 47°F	7.24/3.4	7.24/3.4	7.24/3.4	7.24/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power kW/COP @ 17°F	6.25/2.25	6.25/2.25	6.25/2.25	6.25/2.25
Compressor				
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C	87	87	87	87
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV	TXV
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]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1,075	1,075	1,075	1,050
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Wheel Diameter x Width in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed	Single Speed
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1,725	1,725	1,725	1,725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	172.8 [4,898.8]	172.8 [4,898.8]	172.8 [4,898.8]	172.8 [4,898.8]
Weights				
Net Weight lbs. [kg]	780 [354]	790 [358]	791 [359]	780 [354]
Ship Weight lbs. [kg]	819 [371]	829 [376]	830 [377]	819 [371]

See Page 21 for Notes.

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	090ADG	090ADH	090AYF	090AYG
Cooling Performance^A				CONTINUED →
Nominal Cooling Capacity Btu/h [kW]	90,000 [26.37]	90,000 [26.37]	90,000 [26.37]	90,000 [26.37]
EER / IEER ^B	11/14.1	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	3,000/3,300 [1,416/1,577]	3,000/3,300 [1,416/1,577]	3,000/3,300 [1,416/1,577]	3,000/3,300 [1,416/1,577]
AHRI Net Cooling Capacity Btu/h [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu/h [kW]	64,500 [18.9]	64,500 [18.9]	64,500 [18.9]	64,500 [18.9]
Net Latent Capacity Btu/h [kW]	21,500 [6.3]	21,500 [6.3]	21,500 [6.3]	21,500 [6.3]
Net System Power [kW]	7.82	7.82	7.82	7.82
Heating Performance (Heat Pumps)				
High Temp. Btu/h [kW] Rating @ 47°F	84,000 [24.62]	84,000 [24.62]	84,000 [24.62]	84,000 [24.62]
System Power kW/COP @ 47°F	7.24/3.4	7.24/3.4	7.24/3.4	7.24/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power kW/COP @ 17°F	6.25/2.25	6.25/2.25	6.25/2.25	6.25/2.25
Compressor				
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C	87	87	87	87
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV	TXV
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]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1,050	1,050	1,050	1,050
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Wheel Diameter x Width in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed	Single Speed
No. Motors	1	1	2	1
Motor HP	3	3	3	3
Motor RPM	1,725	1,725	1,725	1,725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	172.8 [4,898.8]	172.8 [4,898.8]	172.8 [4,898.8]	172.8 [4,898.8]
Weights				
Net Weight lbs. [kg]	790 [358]	791 [359]	780 [354]	790 [358]
Ship Weight lbs. [kg]	829 [376]	830 [377]	819 [371]	829 [376]

See Page 21 for Notes.

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	090AYH	102ACF	102ACG	102ACH
Cooling Performance^A				CONTINUED 
Nominal Cooling Capacity Btu/h [kW]	90,000 [26.37]	102,000 [29.89]	102,000 [29.89]	102,000 [29.89]
EER / IEER ^B	11/14.1	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	3,000/3,300 [1,416/1,577]	3,400/3,350 [1,604/1,581]	3,400/3,350 [1,604/1,581]	3,400/3,350 [1,604/1,581]
AHRI Net Cooling Capacity Btu/h [kW]	86,000 [25.2]	96,000 [28.1]	96,000 [28.1]	96,000 [28.1]
Net Sensible Capacity Btu/h [kW]	64,500 [18.9]	72,750 [21.3]	72,750 [21.3]	72,750 [21.3]
Net Latent Capacity Btu/h [kW]	21,500 [6.3]	24,250 [7.1]	24,250 [7.1]	24,250 [7.1]
Net System Power [kW]	7.82	8.82	8.82	8.82
Heating Performance (Heat Pumps)				
High Temp. Btu/h [kW] Rating @ 47°F	84,000 [24.62]	96,000 [28.1]	96,000 [28.1]	96,000 [28.1]
System Power kW/COP @ 47°F	7.24/3.4	8.36/3.4	8.36/3.4	8.36/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	48,000 [14.06]	56,000 [16.4]	56,000 [16.4]	56,000 [16.4]
System Power kW/COP @ 17°F	6.25/2.25	7.29/2.25	7.29/2.25	7.29/2.25
Compressor				
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C	87	82	82	82
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1 [25.4]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	22.8 [2.12]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	10.9 [1.01]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV	TXV
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]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1,050	1,075	1,075	1,075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Wheel Diameter x Width in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed	Single Speed
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1,725	1,725	1,725	1,725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	172.8 [4,898.8]	211.2 [5,987.4]	211.2 [5,987.4]	211.2 [5,987.4]
Weights				
Net Weight lbs. [kg]	790 [358]	814 [369]	824 [373]	825 [374]
Ship Weight lbs. [kg]	829 [376]	853 [387]	863 [391]	864 [392]

See Page 21 for Notes.

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	102ADF	102ADG	102ADH	102AYF
Cooling Performance^A				CONTINUED →
Nominal Cooling Capacity Btu/h [kW]	102,000 [29.89]	102,000 [29.89]	102,000 [29.89]	102,000 [29.89]
EER / IEER ^B	11/14.1	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	3,400/3,350 [1,604/1,581]	3,400/3,350 [1,604/1,581]	3,400/3,350 [1,604/1,581]	3,400/3,350 [1,604/1,581]
AHRI Net Cooling Capacity Btu/h [kW]	96,000 [28.1]	96,000 [28.1]	96,000 [28.1]	96,000 [28.1]
Net Sensible Capacity Btu/h [kW]	72,750 [21.3]	72,750 [21.3]	72,750 [21.3]	72,750 [21.3]
Net Latent Capacity Btu/h [kW]	24,250 [7.1]	24,250 [7.1]	24,250 [7.1]	24,250 [7.1]
Net System Power [kW]	8.82	8.82	8.82	8.82
Heating Performance (Heat Pumps)				
High Temp. Btu/h [kW] Rating @ 47°F	96,000 [28.1]	96,000 [28.1]	96,000 [28.1]	96,000 [28.1]
System Power kW/COP @ 47°F	8.36/3.4	8.36/3.4	8.36/3.4	8.36/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	56,000 [16.4]	56,000 [16.4]	56,000 [16.4]	56,000 [16.4]
System Power kW/COP @ 17°F	7.29/2.25	7.29/2.25	7.29/2.25	7.29/2.25
Compressor				
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C	82	82	82	82
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV	TXV
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]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1050	1050	1050	1050
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Wheel Diameter x Width in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed	Single Speed
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1,725	1,725	1,725	1,725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	211.2 [5,987.4]	211.2 [5,987.4]	211.2 [5,987.4]	211.2 [5,987.4]
Weights				
Net Weight lbs. [kg]	814 [369]	824 [373]	825 [374]	814 [369]
Ship Weight lbs. [kg]	853 [387]	863 [391]	864 [392]	853 [387]

See Page 21 for Notes.

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	102AYG	102AYH	120ACF	120ACG
Cooling Performance^A				CONTINUED →
Nominal Cooling Capacity Btu/h [kW]	102,000 [29.89]	102,000 [29.89]	120,000 [35.16]	120,000 [35.16]
EER / IEER ^B	11/14.1	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	3,400/3,350 [1,604/1,581]	3,400/3,350 [1,604/1,581]	4,000/4,000 [1,888/1,888]	4,000/4,000 [1,888/1,888]
AHRI Net Cooling Capacity Btu/h [kW]	96,000 [28.1]	96,000 [28.1]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu/h [kW]	72,750 [21.3]	72,750 [21.3]	85,500 [25.1]	85,500 [25.1]
Net Latent Capacity Btu/h [kW]	24,250 [7.1]	24,250 [7.1]	28,500 [8.4]	28,500 [8.4]
Net System Power [kW]	8.82	8.82	10.36	10.36
Heating Performance (Heat Pumps)				
High Temp. Btu/h [kW] Rating @ 47°F	96,000 [28.1]	96,000 [28.1]	112,000 [32.8]	112,000 [32.8]
System Power kW/COP @ 47°F	8.36/3.4	8.36/3.4	9.65/3.4	9.65/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	56,000 [16.4]	56,000 [16.4]	68,000 [19.9]	68,000 [19.9]
System Power kW/COP @ 17°F	7.29/2.25	7.29/2.25	8.86/2.25	8.86/2.25
Compressor				
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C	82	82	81	81
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV	TXV
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]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1,050	1,050	1,075	1,075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Wheel Diameter x Width in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed	Single Speed
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1,725	1,725	1,725	1,725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	211.2 [5,987.4]	211.2 [5,987.4]	209.6 [5,942.1]	209.6 [5,942.1]
Weights				
Net Weight lbs. [kg]	825 [374]	825 [374]	856 [388]	866 [392]
Ship Weight lbs. [kg]	864 [392]	864 [392]	895 [406]	905 [410]

See Page 21 for Notes.

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	120ACH	120ADF	120ADG	120ADH
Cooling Performance^A				CONTINUED →
Nominal Cooling Capacity Btu/h [kW]	120,000 [35.16]	120,000 [35.16]	120,000 [35.16]	120,000 [35.16]
EER / IEER ^B	11/14.1	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	4,000/4,000 [1,888/1,888]	4,000/4,000 [1,888/1,888]	4,000/3,900 [1,888/1,841]	4,000/3,900 [1,888/1,841]
AHRI Net Cooling Capacity Btu/h [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu/h [kW]	85,500 [25.1]	85,500 [25.1]	85,500 [25.1]	85,500 [25.1]
Net Latent Capacity Btu/h [kW]	28,500 [8.4]	28,500 [8.4]	28,500 [8.4]	28,500 [8.4]
Net System Power [kW]	10.36	10.36	10.36	10.36
Heating Performance (Heat Pumps)				
High Temp. Btu/h [kW] Rating @ 47°F	112,000 [32.8]	112,000 [32.8]	112,000 [32.8]	112,000 [32.8]
System Power kW/COP @ 47°F	9.65/3.4	9.65/3.4	9.65/3.4	9.65/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	68,000 [19.9]	68,000 [19.9]	68,000 [19.9]	68,000 [19.9]
System Power kW/COP @ 17°F	8.86/2.25	8.86/2.25	8.86/2.25	8.86/2.25
Compressor				
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C	81	81	81	81
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV	TXV
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]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]	2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1,075	1,050	1,050	1,050
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Wheel Diameter x Width in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed	Single Speed
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1,725	1,725	1,725	1,725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	209.6 [5,942.1]	209.6 [5,942.1]	209.6 [5,942.1]	209.6 [5,942.1]
Weights				
Net Weight lbs. [kg]	867 [393]	856 [388]	866 [392]	867 [393]
Ship Weight lbs. [kg]	906 [411]	895 [406]	905 [410]	906 [411]

See Page 21 for Notes.

[] Designates Metric Conversions

GENERAL DATA—RHPDYB MODELS—7.5–10 TON

Model RHPDYB Series	120AYF	120AYG	120AYH
Cooling Performance^A			
Nominal Cooling Capacity Btu/h [kW]	120,000 [35.16]	120,000 [35.16]	120,000 [35.16]
EER / IEER ^B	11/14.1	11/14.1	11/14.1
Nominal CFM/AHRI Rated CFM [L/s]	4,000/4,000 [1,888/1,888]	4,000/4,000 [1,888/1,888]	4,000/3,900 [1,888/1,841]
AHRI Net Cooling Capacity Btu/h [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu/h [kW]	85,500 [25.1]	85,500 [25.1]	85,500 [25.1]
Net Latent Capacity Btu/h [kW]	28,500 [8.4]	28,500 [8.4]	28,500 [8.4]
Net System Power [kW]	10.36	10.36	10.36
Heating Performance (Heat Pumps)			
High Temp. Btu/h [kW] Rating @ 47°F	112,000 [32.8]	112,000 [32.8]	112,000 [32.8]
System Power kW/COP @ 47°F	9.65/3.4	9.65/3.4	9.65/3.4
Low Temp. Btu/h [kW] Rating @ 17°F	68,000 [19.9]	68,000 [19.9]	68,000 [19.9]
System Power kW/COP @ 17°F	8.86/2.25	8.86/2.25	8.86/2.25
Compressor			
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)^C			
	81	81	81
Outdoor Coil - Fin Type			
Tube Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Indoor Coil - Fin Type			
Tube Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1.26 [32.00]	1.26 [32.00]	1.26 [32.00]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TXV	TXV	TXV
Drain Connection No./Size in. [mm]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]
Outdoor Fan - Type			
No. Used/Diameter in. [mm]	Propeller 2/24.0 [609.6]	Propeller 2/24.0 [609.6]	Propeller 2/24.0 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	8,000 [3,775]	8,000 [3,775]	8,000 [3,775]
No. Motors at HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1,075	1,075	1,050
Indoor Fan - Type			
No. Used/Wheel Diameter x Width in. [mm]	FC Centrifugal 1/15x15 [381x381]	FC Centrifugal 1/15x15 [381x381]	FC Centrifugal 1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single Speed	Single Speed	Single Speed
No. Motors	1	1	1
Motor HP	2	3	3
Motor RPM	1,725	1,725	1,725
Motor Frame Size	56	56	56
Filter - Type			
Furnished	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]			
	209.6 [5,942.1]	209.6 [5,942.1]	209.6 [5,942.1]
Weights			
Net Weight lbs. [kg]	856 [388]	866 [392]	867 [393]
Ship Weight lbs. [kg]	895 [406]	905 [410]	906 [411]

See Page 21 for Notes.

[] Designates Metric Conversions

NOTES:

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

[] Designates Metric Conversions

WEIGHTED SOUND POWER LEVEL (dBA)

MODEL	STD. RATING (dBA)	FREQUENCY (Hz)						
		125	250	500	1000	2000	4000	8000
RHPDYB090	87.0	62	74	77	77	74	70	67
RHPDYB102	81.7	56	65	72	71	69	64	53
RHPDYB120	81.0	61	64	69	67	67	66	62

COOLING PERFORMANCE DATA—RHPDYB090

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]			3600 [1699]	3025 [1428]	2400 [1133]	3600 [1699]	3025 [1428]	2400 [1133]	3600 [1699]	3025 [1428]	2400 [1133]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	105.5 [30.9] 63.8 [18.7] 6.9	102.0 [29.9] 58.6 [17.2] 6.8	98.1 [28.8] 53.0 [15.5] 6.7	101.7 [29.8] 78.2 [22.9] 6.8	98.3 [28.8] 71.9 [21.1] 6.7	94.6 [27.7] 64.9 [19.0] 6.5	96.8 [28.4] 85.7 [25.1] 6.7	93.6 [27.4] 78.7 [23.1] 6.5	90.1 [26.4] 71.1 [20.8] 6.4
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	103.8 [30.4] 63.8 [18.7] 7.3	100.3 [29.4] 58.6 [17.2] 7.1	96.6 [28.3] 52.9 [15.5] 7.0	100.0 [29.3] 78.2 [22.9] 7.1	96.6 [28.3] 71.8 [21.0] 7.0	93.0 [27.3] 64.9 [19.0] 6.8	95.1 [27.9] 85.6 [25.1] 7.0	91.9 [26.9] 78.7 [23.1] 6.8	88.5 [25.9] 71.1 [20.8] 6.7
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	101.8 [29.8] 63.4 [18.6] 7.6	98.4 [28.8] 58.2 [17.1] 7.4	94.7 [27.8] 52.6 [15.4] 7.3	98.0 [28.7] 77.8 [22.8] 7.4	94.7 [27.8] 71.5 [21.0] 7.3	91.2 [26.7] 64.6 [18.9] 7.1	93.1 [27.3] 85.2 [25.0] 7.3	90.0 [26.4] 78.3 [22.9] 7.2	86.6 [25.4] 70.7 [20.7] 7.0
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	99.6 [29.2] 62.6 [18.3] 7.9	96.3 [28.2] 57.5 [16.9] 7.8	92.6 [27.1] 52.0 [15.2] 7.6	95.7 [28.0] 77.0 [22.6] 7.7	92.6 [27.1] 70.8 [20.8] 7.6	89.1 [26.1] 63.9 [18.7] 7.5	90.9 [26.6] 84.5 [24.8] 7.6	87.9 [25.8] 77.6 [22.7] 7.5	84.6 [24.8] 70.1 [20.5] 7.3
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	97.1 [28.5] 61.6 [18.1] 8.2	93.8 [27.5] 56.5 [16.6] 8.1	90.3 [26.5] 51.1 [15.0] 7.9	93.2 [27.3] 76.0 [22.3] 8.0	90.1 [26.4] 69.8 [20.5] 7.9	86.7 [25.4] 63.0 [18.5] 7.8	88.4 [25.9] 83.4 [24.4] 7.9	85.4 [25.0] 76.6 [22.5] 7.8	82.2 [24.1] 69.2 [20.3] 7.6
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	94.3 [27.6] 60.1 [17.6] 8.5	91.1 [26.7] 55.2 [16.2] 8.4	87.7 [25.7] 49.9 [14.6] 8.2	90.5 [26.5] 74.5 [21.8] 8.3	87.4 [25.6] 68.5 [20.1] 8.2	84.2 [24.7] 61.9 [18.1] 8.1	85.6 [25.1] 82.0 [24.0] 8.2	82.7 [24.2] 75.3 [22.1] 8.1	79.6 [23.3] 68.1 [20.0] 7.9
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	91.2 [26.7] 58.4 [17.1] 8.8	88.2 [25.8] 53.6 [15.7] 8.7	84.9 [24.9] 48.4 [14.2] 8.5	87.4 [25.6] 72.8 [21.3] 8.7	84.5 [24.8] 66.8 [19.6] 8.5	81.3 [23.8] 60.4 [17.7] 8.4	82.6 [24.2] 80.2 [23.5] 8.5	79.8 [23.4] 73.7 [21.6] 8.4	76.8 [22.5] 66.6 [19.5] 8.2
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	87.9 [25.8] 56.3 [16.5] 9.1	85.0 [24.9] 51.7 [15.2] 9.0	81.8 [24.0] 46.7 [13.7] 8.8	84.1 [24.6] 70.7 [20.7] 9.0	81.3 [23.8] 64.9 [19.0] 8.8	78.2 [22.9] 58.6 [17.2] 8.7	79.2 [23.2] 78.1 [22.9] 8.8	76.6 [22.5] 71.8 [21.0] 8.7	73.7 [21.6] 64.8 [19.0] 8.5
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	84.4 [24.7] 53.8 [15.8] 9.4	81.5 [23.9] 49.4 [14.5] 9.3	78.5 [23.0] 44.7 [13.1] 9.1	80.5 [23.6] 68.2 [20.0] 9.3	77.8 [22.8] 62.7 [18.4] 9.1	74.9 [22.0] 56.6 [16.6] 9.0	75.7 [22.2] 75.7 [22.2] 9.2	73.1 [21.4] 69.5 [20.4] 9.0	70.4 [20.6] 62.8 [18.4] 8.8
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	80.5 [23.6] 51.0 [14.9] 9.8	77.8 [22.8] 46.9 [13.7] 9.6	74.9 [22.0] 42.3 [12.4] 9.4	76.7 [22.5] 65.4 [19.2] 9.6	74.1 [21.7] 60.1 [17.6] 9.4	71.3 [20.9] 54.3 [15.9] 9.3	71.8 [21.0] 71.8 [21.0] 9.5	69.4 [20.3] 66.9 [19.6] 9.3	66.8 [19.6] 60.5 [17.7] 9.1
125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	76.4 [22.4] 47.9 [14.0] 10.1	73.8 [21.6] 44.0 [12.9] 9.9	71.1 [20.8] 39.7 [11.6] 9.7	72.5 [21.2] 62.3 [18.3] 9.9	70.1 [20.5] 57.2 [16.8] 9.7	67.5 [19.8] 51.7 [15.2] 9.6	67.7 [19.8] 67.7 [19.8] 9.8	65.4 [19.2] 64.1 [18.8] 9.6	63.0 [18.5] 57.9 [17.0] 9.4	

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

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

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

[] Designates Metric Conversions

COOLING PERFORMANCE DATA—RHPDYB102

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]			4075 [1923]	3350 [1581]	2700 [1274]	4075 [1923]	3350 [1581]	2700 [1274]	4075 [1923]	3350 [1581]	2700 [1274]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	123.5 [36.2] 75.0 [22.0] 7.5	118.8 [34.8] 68.1 [20.0] 7.3	114.6 [33.6] 62.0 [18.2] 7.2	116.2 [34.1] 88.9 [26.1] 7.2	111.8 [32.8] 80.7 [23.7] 7.0	107.8 [31.6] 73.4 [21.5] 6.9	109.0 [31.9] 95.1 [27.9] 6.9	104.9 [30.7] 86.4 [25.3] 6.8	101.2 [29.7] 78.5 [23.0] 6.7
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	121.2 [35.5] 74.4 [21.8] 7.7	116.6 [34.2] 67.5 [19.8] 7.6	112.5 [33.0] 61.4 [18.0] 7.5	113.9 [33.4] 88.2 [25.8] 7.5	109.6 [32.1] 80.1 [23.5] 7.3	105.7 [31.0] 72.9 [21.4] 7.2	106.8 [31.3] 94.4 [27.7] 7.2	102.7 [30.1] 85.8 [25.1] 7.1	99.1 [29.0] 78.0 [22.9] 6.9
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	118.7 [34.8] 73.5 [21.5] 8.1	114.2 [33.5] 66.7 [19.5] 7.9	110.2 [32.3] 60.7 [17.8] 7.8	111.4 [32.6] 87.3 [25.6] 7.8	107.2 [31.4] 79.3 [23.2] 7.7	103.4 [30.3] 72.1 [21.1] 7.5	104.3 [30.6] 93.5 [27.4] 7.5	100.3 [29.4] 84.9 [24.9] 7.4	96.8 [28.4] 77.2 [22.6] 7.3
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	115.9 [34.0] 72.3 [21.2] 8.5	111.6 [32.7] 65.7 [19.3] 8.3	107.6 [31.5] 59.7 [17.5] 8.2	108.6 [31.8] 86.1 [25.2] 8.2	104.5 [30.6] 78.2 [22.9] 8.0	100.8 [29.5] 71.2 [20.9] 7.9	101.5 [29.7] 92.3 [27.1] 7.9	97.6 [28.6] 83.9 [24.6] 7.8	94.2 [27.6] 76.3 [22.4] 7.6
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	112.9 [33.1] 70.9 [20.8] 8.9	108.6 [31.8] 64.4 [18.9] 8.8	104.8 [30.7] 58.5 [17.1] 8.6	105.6 [30.9] 84.7 [24.8] 8.7	101.6 [29.8] 76.9 [22.5] 8.5	98.0 [28.7] 70.0 [20.5] 8.4	98.5 [28.9] 90.9 [26.6] 8.4	94.7 [27.8] 82.6 [24.2] 8.2	91.4 [26.8] 75.1 [22.0] 8.1
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	109.6 [32.1] 69.2 [20.3] 9.5	105.5 [30.9] 62.8 [18.4] 9.3	101.8 [29.8] 57.1 [16.7] 9.1	102.3 [30.0] 83.0 [24.3] 9.2	98.5 [28.9] 75.4 [22.1] 9.0	95.0 [27.8] 68.6 [20.1] 8.8	95.2 [27.9] 89.2 [26.1] 8.9	91.6 [26.8] 81.0 [23.7] 8.7	88.3 [25.9] 73.7 [21.6] 8.6
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	106.1 [31.1] 67.2 [19.7] 10.0	102.1 [29.9] 61.1 [17.9] 9.8	98.5 [28.9] 55.5 [16.3] 9.7	98.8 [29.0] 81.1 [23.8] 9.7	95.0 [27.8] 73.6 [21.6] 9.6	91.7 [26.9] 67.0 [19.6] 9.4	91.6 [26.8] 87.3 [25.6] 9.5	88.1 [25.8] 79.3 [23.2] 9.3	85.0 [24.9] 72.1 [21.1] 9.1
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	102.2 [30.0] 65.0 [19.1] 10.6	98.4 [28.8] 59.1 [17.3] 10.4	94.9 [27.8] 53.7 [15.7] 10.3	94.9 [27.8] 78.9 [23.1] 10.4	91.3 [26.8] 71.6 [21.0] 10.2	88.1 [25.8] 65.2 [19.1] 10.0	87.8 [25.7] 85.1 [24.9] 10.1	84.5 [24.8] 77.3 [22.7] 9.9	81.5 [23.9] 70.3 [20.6] 9.7
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	98.2 [28.8] 62.6 [18.3] 11.3	94.4 [27.7] 56.8 [16.6] 11.1	91.1 [26.7] 51.7 [15.2] 10.9	90.9 [26.6] 76.4 [22.4] 11.1	87.4 [25.6] 69.4 [20.3] 10.8	84.3 [24.7] 63.1 [18.5] 10.7	83.7 [24.5] 82.6 [24.2] 10.8	80.5 [23.6] 75.0 [22.0] 10.6	77.7 [22.8] 68.2 [20.0] 10.4
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	93.8 [27.5] 59.8 [17.5] 12.1	90.3 [26.5] 54.3 [15.9] 11.8	87.1 [25.5] 49.4 [14.5] 11.6	86.5 [25.4] 73.7 [21.6] 11.8	83.2 [24.4] 66.9 [19.6] 11.6	80.3 [23.5] 60.9 [17.8] 11.4	79.3 [23.2] 79.3 [23.2] 11.5	76.3 [22.4] 72.6 [21.3] 11.3	73.7 [21.6] 66.0 [19.3] 11.1
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	89.2 [26.1] 56.8 [16.6] 12.9	85.8 [25.1] 51.6 [15.1] 12.6	82.8 [24.3] 47.0 [13.8] 12.4	81.9 [24.0] 70.7 [20.7] 12.6	78.8 [23.1] 64.2 [18.8] 12.4	76.0 [22.3] 58.4 [17.1] 12.1	74.7 [21.9] 74.7 [21.9] 12.3	71.9 [21.1] 69.9 [20.5] 12.1	69.4 [20.3] 63.5 [18.6] 11.9

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

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

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

[] Designates Metric Conversions

COOLING PERFORMANCE DATA—RHPDYB120

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]			4775 [2254]	3900 [1841]	3175 [1498]	4775 [2254]	3900 [1841]	3175 [1498]	4775 [2254]	3900 [1841]	3175 [1498]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	145.4 [42.6] 90.9 [26.6] 9.1	139.7 [40.9] 82.3 [24.1] 8.9	135.0 [39.6] 75.1 [22.0] 8.8	136.7 [40.1] 98.4 [28.8] 9.1	131.4 [38.5] 89.1 [26.1] 8.9	126.9 [37.2] 81.3 [23.8] 8.8	128.1 [37.5] 106.0 [31.1] 9.0	123.1 [36.1] 95.9 [28.1] 8.8	118.9 [34.8] 87.6 [25.7] 8.7
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	142.8 [41.9] 90.8 [26.6] 9.6	137.2 [40.2] 82.2 [24.1] 9.4	132.6 [38.9] 75.1 [22.0] 9.2	134.1 [39.3] 98.3 [28.8] 9.6	128.9 [37.8] 89.0 [26.1] 9.4	124.5 [36.5] 81.3 [23.8] 9.2	125.5 [36.8] 105.9 [31.0] 9.5	120.6 [35.3] 95.9 [28.1] 9.3	116.5 [34.1] 87.6 [25.7] 9.2
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	139.9 [41.0] 90.4 [26.5] 10.1	134.4 [39.4] 81.8 [24.0] 9.9	129.9 [38.1] 74.7 [21.9] 9.7	131.1 [38.4] 97.9 [28.7] 10.1	126.0 [36.9] 88.6 [26.0] 9.9	121.7 [35.7] 80.9 [23.7] 9.7	122.5 [35.9] 105.5 [30.9] 10.0	117.7 [34.5] 95.5 [28.0] 9.8	113.7 [33.3] 87.2 [25.6] 9.6
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	136.5 [40.0] 89.6 [26.3] 10.6	131.2 [38.5] 81.1 [23.8] 10.4	126.8 [37.2] 74.0 [21.7] 10.2	127.8 [37.5] 97.1 [28.5] 10.5	122.8 [36.0] 87.9 [25.8] 10.3	118.7 [34.8] 80.2 [23.5] 10.2	119.2 [34.9] 104.7 [30.7] 10.5	114.5 [33.6] 94.7 [27.8] 10.3	110.7 [32.4] 86.5 [25.4] 10.1
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	132.9 [39.0] 88.4 [25.9] 11.1	127.6 [37.4] 80.0 [23.4] 10.8	123.3 [36.1] 73.0 [21.4] 10.7	124.1 [36.4] 95.8 [28.1] 11.0	119.3 [35.0] 86.8 [25.4] 10.8	115.2 [33.8] 79.2 [23.2] 10.6	115.5 [33.9] 103.5 [30.3] 11.0	111.0 [32.5] 93.6 [27.4] 10.8	107.2 [31.4] 85.5 [25.1] 10.6
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	128.8 [37.7] 86.8 [25.4] 11.5	123.7 [36.3] 78.5 [23.0] 11.3	119.6 [35.1] 71.7 [21.0] 11.1	120.1 [35.2] 94.2 [27.6] 11.5	115.4 [33.8] 85.3 [25.0] 11.3	111.5 [32.7] 77.9 [22.8] 11.1	111.4 [32.6] 101.9 [29.9] 11.5	107.1 [31.4] 92.2 [27.0] 11.2	103.5 [30.3] 84.2 [24.7] 11.0
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	124.4 [36.5] 84.8 [24.9] 12.0	119.5 [35.0] 76.7 [22.5] 11.8	115.5 [33.9] 70.1 [20.5] 11.6	115.6 [33.9] 92.3 [27.1] 12.0	111.1 [32.6] 83.5 [24.5] 11.8	107.4 [31.5] 76.3 [22.4] 11.6	107.0 [31.4] 99.9 [29.3] 11.9	102.8 [30.1] 90.4 [26.5] 11.7	99.4 [29.1] 82.6 [24.2] 11.5
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	119.6 [35.1] 82.4 [24.2] 12.5	114.9 [33.7] 74.6 [21.9] 12.3	111.0 [32.5] 68.1 [20.0] 12.1	110.9 [32.5] 89.9 [26.3] 12.5	106.5 [31.2] 81.4 [23.9] 12.3	102.9 [30.2] 74.3 [21.8] 12.1	102.2 [30.0] 97.5 [28.6] 12.4	98.2 [28.8] 88.3 [25.9] 12.2	94.9 [27.8] 80.6 [23.6] 12.0
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	114.4 [33.5] 79.6 [23.3] 13.0	110.0 [32.2] 72.1 [21.1] 12.8	106.2 [31.1] 65.8 [19.3] 12.5	105.7 [31.0] 87.1 [25.5] 13.0	101.6 [29.8] 78.9 [23.1] 12.7	98.1 [28.8] 72.0 [21.1] 12.5	97.1 [28.5] 94.7 [27.8] 12.9	93.3 [27.3] 85.8 [25.1] 12.7	90.1 [26.4] 78.3 [22.9] 12.5
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	108.9 [31.9] 76.5 [22.4] 13.5	104.7 [30.7] 69.3 [20.3] 13.2	101.1 [29.6] 63.2 [18.5] 13.0	100.2 [29.4] 84.0 [24.6] 13.5	96.3 [28.2] 76.0 [22.3] 13.2	93.0 [27.3] 69.4 [20.3] 13.0	91.6 [26.8] 91.6 [26.8] 13.4	88.0 [25.8] 82.9 [24.3] 13.1	85.0 [24.9] 75.7 [22.2] 12.9
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	103.1 [30.2] 73.0 [21.4] 14.0	99.0 [29.0] 66.1 [19.4] 13.7	95.7 [28.0] 60.3 [17.7] 13.5	94.3 [27.6] 80.5 [23.6] 14.0	90.6 [26.6] 72.8 [21.3] 13.7	87.6 [25.7] 66.5 [19.5] 13.5	85.7 [25.1] 85.7 [25.1] 13.9	82.4 [24.2] 79.7 [23.4] 13.6	79.6 [23.3] 72.8 [21.3] 13.4

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

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

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

[] Designates Metric Conversions

HEATING PERFORMANCE DATA—RHPDYB090

IDB			60°F [15.6°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			3375 [1593]	3025 [1428]	2250 [1062]	3375 [1593]	3025 [1428]	2250 [1062]	3375 [1593]	3025 [1428]	2250 [1062]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	32.1 [9.4] 6.0	31.9 [9.3] 6.1	31.3 [9.2] 6.2	30.7 [9.0] 6.3	30.4 [8.9] 6.4	29.9 [8.8] 6.6	29.2 [8.6] 7.2	29.0 [8.5] 7.3	28.5 [8.4] 7.6
	5 [-15.0]	Total kBtu/h [kW] Power	37.9 [11.1] 6	37.6 [11.0] 6.1	36.9 [10.8] 6.3	36.5 [10.7] 6.3	36.2 [10.6] 6.4	35.5 [10.4] 6.6	35.1 [10.3] 7.3	34.8 [10.2] 7.4	34.1 [10.0] 7.6
	10 [-12.2]	Total kBtu/h [kW] Power	43.7 [12.8] 6.1	43.4 [12.7] 6.2	42.6 [12.5] 6.3	42.3 [12.4] 6.4	42.0 [12.3] 6.5	41.2 [12.1] 6.7	40.9 [12.0] 7.3	40.5 [11.9] 7.4	39.8 [11.7] 7.7
	15 [-9.4]	Total kBtu/h [kW] Power	49.6 [14.5] 6.1	49.2 [14.4] 6.2	48.3 [14.2] 6.4	48.1 [14.1] 6.4	47.7 [14.0] 6.5	46.8 [13.7] 6.8	46.7 [13.7] 7.4	46.3 [13.6] 7.5	45.4 [13.3] 7.7
	20 [-6.7]	Total kBtu/h [kW] Power	55.4 [16.2] 6.2	54.9 [16.1] 6.3	53.9 [15.8] 6.5	53.9 [15.8] 6.5	53.5 [15.7] 6.6	52.5 [15.4] 6.8	52.5 [15.4] 7.4	52.0 [15.2] 7.5	51.1 [15.0] 7.8
	25 [-3.9]	Total kBtu/h [kW] Power	61.2 [17.9] 6.2	60.7 [17.8] 6.3	59.6 [17.5] 6.5	59.7 [17.5] 6.5	59.2 [17.4] 6.6	58.2 [17.1] 6.9	58.3 [17.1] 7.5	57.8 [16.9] 7.6	56.8 [16.6] 7.8
	30 [-1.1]	Total kBtu/h [kW] Power	67.0 [19.6] 6.3	66.4 [19.5] 6.4	65.2 [19.1] 6.6	65.5 [19.2] 6.6	65.0 [19.1] 6.7	63.8 [18.7] 6.9	64.1 [18.8] 7.5	63.6 [18.6] 7.6	62.4 [18.3] 7.9
	35 [1.7]	Total kBtu/h [kW] Power	72.8 [21.3] 6.3	72.2 [21.2] 6.4	70.9 [20.8] 6.6	71.4 [20.9] 6.6	70.8 [20.8] 6.7	69.5 [20.4] 7.0	69.9 [20.5] 7.6	69.3 [20.3] 7.7	68.1 [20.0] 7.9
	40 [4.4]	Total kBtu/h [kW] Power	78.6 [23.0] 6.4	78.0 [22.9] 6.5	76.5 [22.4] 6.7	77.2 [22.6] 6.7	76.5 [22.4] 6.8	75.1 [22.0] 7.0	75.7 [22.2] 7.6	75.1 [22.0] 7.7	73.7 [21.6] 8.0
	45 [7.2]	Total kBtu/h [kW] Power	84.4 [24.7] 6.4	83.7 [24.5] 6.5	82.2 [24.1] 6.7	83.0 [24.3] 6.7	82.3 [24.1] 6.8	80.8 [23.7] 7.1	81.5 [23.9] 7.7	80.9 [23.7] 7.8	79.4 [23.3] 8.0
	50 [10.0]	Total kBtu/h [kW] Power	90.2 [26.4] 6.5	89.5 [26.2] 6.6	87.8 [25.7] 6.8	88.8 [26.0] 6.8	88.1 [25.8] 6.9	86.4 [25.3] 7.1	87.3 [25.6] 7.7	86.6 [25.4] 7.8	85.0 [24.9] 8.1

IDB—Indoor air dry bulb

HEATING PERFORMANCE DATA—RHPDYB102

IDB			60°F [15.6°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			3825 [1805]	3350 [1581]	2550 [1203]	3825 [1805]	3350 [1581]	2550 [1203]	3825 [1805]	3350 [1581]	2550 [1203]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	33.1 [9.7] 5.2	32.7 [9.6] 5.3	32.2 [9.4] 5.4	32.5 [9.5] 5.8	32.1 [9.4] 5.9	31.6 [9.3] 6.1	31.9 [9.3] 6.5	31.5 [9.2] 6.6	31.0 [9.1] 6.8
	5 [-15.0]	Total kBtu/h [kW] Power	39.9 [11.7] 5.4	39.5 [11.6] 5.5	38.8 [11.4] 5.7	39.3 [11.5] 6.1	38.9 [11.4] 6.2	38.2 [11.2] 6.4	38.7 [11.3] 6.7	38.3 [11.2] 6.9	37.7 [11.0] 7.1
	10 [-12.2]	Total kBtu/h [kW] Power	46.8 [13.7] 5.7	46.3 [13.6] 5.8	45.5 [13.3] 6.0	46.1 [13.5] 6.3	45.7 [13.4] 6.5	44.9 [13.2] 6.7	45.5 [13.3] 7.0	45.1 [13.2] 7.1	44.3 [13.0] 7.3
	15 [-9.4]	Total kBtu/h [kW] Power	53.6 [15.7] 5.9	53.1 [15.6] 6.0	52.2 [15.3] 6.2	53.0 [15.5] 6.6	52.5 [15.4] 6.7	51.6 [15.1] 6.9	52.4 [15.4] 7.2	51.9 [15.2] 7.3	51.0 [14.9] 7.6
	20 [-6.7]	Total kBtu/h [kW] Power	60.4 [17.7] 6.1	59.8 [17.5] 6.2	58.8 [17.2] 6.4	59.8 [17.5] 6.8	59.2 [17.4] 6.9	58.2 [17.1] 7.1	59.2 [17.4] 7.4	58.6 [17.2] 7.5	57.6 [16.9] 7.8
	25 [-3.9]	Total kBtu/h [kW] Power	67.3 [19.7] 6.3	66.6 [19.5] 6.4	65.5 [19.2] 6.6	66.7 [19.5] 6.9	66.0 [19.3] 7.0	64.9 [19.0] 7.3	66.1 [19.4] 7.6	65.4 [19.2] 7.7	64.3 [18.8] 7.9
	30 [-1.1]	Total kBtu/h [kW] Power	74.1 [21.7] 6.4	73.4 [21.5] 6.5	72.1 [21.1] 6.7	73.5 [21.5] 7.1	72.8 [21.3] 7.2	71.5 [21.0] 7.4	72.9 [21.4] 7.7	72.2 [21.2] 7.8	70.9 [20.8] 8.1
	35 [1.7]	Total kBtu/h [kW] Power	81.0 [23.7] 6.5	80.1 [23.5] 6.6	78.8 [23.1] 6.8	80.4 [23.6] 7.2	79.5 [23.3] 7.3	78.2 [22.9] 7.5	79.7 [23.4] 7.8	78.9 [23.1] 7.9	77.6 [22.7] 8.2
	40 [4.4]	Total kBtu/h [kW] Power	87.8 [25.7] 6.6	86.9 [25.5] 6.7	85.4 [25.0] 6.9	87.2 [25.6] 7.2	86.3 [25.3] 7.4	84.8 [24.9] 7.6	86.6 [25.4] 7.9	85.7 [25.1] 8.0	84.3 [24.7] 8.3
	45 [7.2]	Total kBtu/h [kW] Power	94.6 [27.7] 6.6	93.7 [27.5] 6.7	92.1 [27.0] 6.9	94.0 [27.5] 7.3	93.1 [27.3] 7.4	91.5 [26.8] 7.6	93.4 [27.4] 7.9	92.5 [27.1] 8.1	90.9 [26.6] 8.3
	50 [10.0]	Total kBtu/h [kW] Power	101.5 [29.7] 6.6	100.5 [29.5] 6.8	98.7 [28.9] 7.0	100.9 [29.6] 7.3	99.9 [29.3] 7.4	98.2 [28.8] 7.6	100.3 [29.4] 7.9	99.3 [29.1] 8.1	97.6 [28.6] 8.3

IDB—Indoor air dry bulb

[] Designates Metric Conversions

HEATING PERFORMANCE DATA—RHPDYB120

IDB			60°F [15.6°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			4575 [2159]	3900 [1841]	3050 [1439]	4575 [2159]	3900 [1841]	3050 [1439]	4575 [2159]	3900 [1841]	3050 [1439]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	43.8 [12.8] 6.4	43.3 [12.7] 6.5	42.6 [12.5] 6.7	41.7 [12.2] 7.1	41.2 [12.1] 7.3	40.5 [11.9] 7.5	39.6 [11.6] 7.8	39.1 [11.5] 8.0	38.5 [11.3] 8.2
	5 [-15.0]	Total kBtu/h [kW] Power	51.7 [15.2] 6.6	51.1 [15.0] 6.7	50.3 [14.7] 6.9	49.6 [14.5] 7.3	49.0 [14.4] 7.5	48.2 [14.1] 7.7	47.5 [13.9] 8.0	46.9 [13.7] 8.2	46.2 [13.5] 8.4
	10 [-12.2]	Total kBtu/h [kW] Power	59.6 [17.5] 6.8	58.9 [17.3] 6.9	58.0 [17.0] 7.1	57.5 [16.9] 7.5	56.8 [16.6] 7.7	55.9 [16.4] 7.9	55.4 [16.2] 8.2	54.7 [16.0] 8.4	53.9 [15.8] 8.6
	15 [-9.4]	Total kBtu/h [kW] Power	67.5 [19.8] 6.9	66.7 [19.5] 7.1	65.7 [19.3] 7.3	65.4 [19.2] 7.7	64.6 [18.9] 7.9	63.6 [18.6] 8.1	63.3 [18.6] 8.4	62.5 [18.3] 8.6	61.6 [18.1] 8.8
	20 [-6.7]	Total kBtu/h [kW] Power	75.4 [22.1] 7.1	74.5 [21.8] 7.3	73.4 [21.5] 7.5	73.3 [21.5] 7.9	72.4 [21.2] 8.1	71.3 [20.9] 8.3	71.2 [20.9] 8.6	70.3 [20.6] 8.8	69.2 [20.3] 9.0
	25 [-3.9]	Total kBtu/h [kW] Power	83.3 [24.4] 7.3	82.3 [24.1] 7.5	81.0 [23.7] 7.7	81.2 [23.8] 8.1	80.2 [23.5] 8.2	79.0 [23.2] 8.5	79.1 [23.2] 8.8	78.2 [22.9] 9.0	76.9 [22.5] 9.2
	30 [-1.1]	Total kBtu/h [kW] Power	91.3 [26.8] 7.5	90.1 [26.4] 7.7	88.7 [26.0] 7.9	89.1 [26.1] 8.3	88.1 [25.8] 8.4	86.7 [25.4] 8.7	87.0 [25.5] 9.0	86.0 [25.2] 9.2	84.6 [24.8] 9.4
	35 [1.7]	Total kBtu/h [kW] Power	99.2 [29.1] 7.7	98.0 [28.7] 7.9	96.4 [28.3] 8.1	97.1 [28.5] 8.4	95.9 [28.1] 8.6	94.4 [27.7] 8.9	94.9 [27.8] 9.1	93.8 [27.5] 9.3	92.3 [27.1] 9.6
	40 [4.4]	Total kBtu/h [kW] Power	107.1 [31.4] 7.9	105.8 [31.0] 8.1	104.1 [30.5] 8.3	105.0 [30.8] 8.6	103.7 [30.4] 8.8	102.1 [29.9] 9.1	102.8 [30.1] 9.3	101.6 [29.8] 9.5	100.0 [29.3] 9.8
	45 [7.2]	Total kBtu/h [kW] Power	115.0 [33.7] 8.1	113.6 [33.3] 8.2	111.8 [32.8] 8.5	112.9 [33.1] 8.8	111.5 [32.7] 9.0	109.8 [32.2] 9.3	110.8 [32.5] 9.5	109.4 [32.1] 9.7	107.7 [31.6] 10.0
	50 [10.0]	Total kBtu/h [kW] Power	122.9 [36.0] 8.3	121.4 [35.6] 8.4	119.5 [35.0] 8.7	120.8 [35.4] 9.0	119.3 [35.0] 9.2	117.4 [34.4] 9.5	118.7 [34.8] 9.7	117.2 [34.3] 9.9	115.4 [33.8] 10.2

IDB—Indoor air dry bulb

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 7.5 TON — 60 Hz — DOWNFLOW

Model RHPDYB090		Voltage 208/230, 460, 575 — 3 phase 60 Hz																							
Air Flow CFM [L/s]		External Static Pressure—Inches of Water [kPa]																							
0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]						
RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W						
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
2400 [1133]	—	—	567	800	603	833	638	870	672	911	706	955	739	1003	772	1055	803	1111	835						
2500 [1180]	—	—	575	827	610	862	645	900	678	942	712	987	744	1036	776	1089	808	1146	838						
2600 [1227]	—	548	825	583	857	618	892	652	932	685	975	718	1022	750	1072	781	1127	812	1185						
2700 [1274]	—	557	856	591	889	626	926	659	966	692	1011	724	1059	756	1111	787	1166	817	1226						
2800 [1321]	—	566	890	600	924	634	962	667	1004	699	1049	731	1099	762	1152	793	1209	822	1269						
2900 [1368]	—	576	926	609	962	642	1001	675	1044	707	1091	738	1141	769	1196	799	1254	828	1315						
3000 [1416]	—	552	932	586	965	619	1002	651	1042	683	1087	715	1135	745	1187	776	1242	805	1301						
3100 [1463]	—	562	972	596	1007	629	1045	661	1087	692	1132	723	1181	753	1234	783	1291	812	1352						
3200 [1510]	—	574	1015	606	1051	639	1090	670	1133	701	1180	732	1231	761	1285	791	1343	819	1405						
3300 [1557]	552	1028	585	1061	617	1098	649	1139	680	1183	711	1231	741	1283	770	1338	799	1398	827						
3400 [1604]	564	1075	597	1110	629	1148	660	1190	691	1235	721	1284	750	1337	779	1394	807	1455	834						
3500 [1652]	577	1125	609	1161	640	1200	671	1243	701	1290	731	1340	760	1395	788	1453	815	1514	843						
3600 [1699]	590	1178	621	1215	652	1255	683	1299	712	1347	741	1399	770	1455	797	1514	824	1577	851						
3700 [1746]	603	1231	634	1268	665	1308	694	1351	725	1401	754	1407	776	1461	806	1466	837	1590	861						
3800 [1793]	616	1284	647	1321	678	1361	707	1404	738	1457	767	1410	785	1474	819	1479	854	1644	877						
3900 [1840]	629	1337	660	1374	691	1414	720	1451	750	1494	776	1417	791	1488	822	1488	857	1697	890						
4000 [1887]	642	1390	673	1427	704	1467	733	1464	763	1507	789	1429	804	1510	831	1511	868	1750	903						
4100 [1934]	655	1443	686	1480	717	1520	746	1515	775	1560	792	1439	817	1539	844	1519	885	1803	916						
4200 [1981]	668	1496	697	1533	728	1573	759	1568	788	1613	805	1449	830	1592	857	1529	896	1856	929						
4300 [2028]	681	1549	708	1586	740	1626	770	1621	800	1666	817	1459	841	1645	869	1539	909	1909	941						
4400 [2075]	694	1602	719	1639	753	1679	783	1674	812	1719	823	1469	851	1699	883	1549	921	1962	954						
4500 [2122]	707	1655	730	1692	765	1732	795	1727	824	1774	836	1479	861	1754	893	1559	931	2015	967						
4600 [2169]	720	1708	741	1745	777	1785	807	1780	836	1829	847	1489	871	1809	903	1569	941	2068	979						
4700 [2216]	733	1761	752	1798	789	1838	819	1833	848	1882	859	1499	881	1862	915	1579	951	2121	990						
4800 [2263]	746	1814	763	1851	800	1891	830	1886	859	1935	870	1509	891	1915	927	1589	963	2174	1001						
4900 [2310]	759	1867	774	1904	812	1944	841	1939	870	1988	881	1519	901	1966	939	1599	975	2227	1012						
5000 [2357]	772	1920	785	1957	824	1997	852	1992	881	2040	892	1529	911	2019	951	1609	987	2280	1023						
5100 [2404]	785	1973	796	2010	835	2050	863	2045	892	2093	903	1539	922	2072	964	1619	999	2333	1034						
5200 [2451]	798	2026	807	2063	847	2103	874	2098	903	2146	914	1549	933	2125	977	1629	1011	2386	1045						
5300 [2498]	811	2079	818	2116	858	2156	885	2151	914	2199	925	1559	944	2178	989	1639	1023	2439	1056						
5400 [2545]	824	2132	829	2169	869	2209	896	2204	925	2252	936	1569	955	2231	1000	1649	1035	2492	1067						
5500 [2592]	837	2185	840	2222	880	2262	907	2257	936	2305	947	1579	966	2284	1011	1659	1047	2545	1078						
5600 [2639]	850	2238	851	2275	891	2315	918	2310	947	2363	958	1589	977	2337	1022	1669	1059	2598	1089						
5700 [2686]	863	2291	862	2328	902	2368	929	2363	958	2416	969	1599	988	2390	1033	1679	1071	2651	1100						
5800 [2733]	876	2344	873	2381	913	2421	940	2416	969	2468	980	1609	999	2443	1044	1689	1083	2704	1111						
5900 [2780]	889	2397	884	2434	924	2474	951	2469	980	2520	991	1619	1009	2496	1055	1699	1095	2757	1122						
6000 [2827]	902	2450	895	2487	935	2527	962	2522	991	2573	1002	1629	1019	2549	1066	1709	1107	2810	1133						
6100 [2874]	915	2503	906	2540	946	2579	973	2574	1002	2626	1013	1639	1029	2602	1077	1719	1119	2863	1144						
6200 [2921]	928	2556	917	2593	957	2632	984	2627	1013	2679	1024	1649	1039	2655	1088	1729	1131	2916	1155						
6300 [2968]	941	2609	928	2646	968	2685	995	2680	1024	2732	1035	1659	1049	2708	1099	1739	1143	2969	1166						
6400 [3015]	954	2662	939	2699	979	2738	1006	2733	1035	2785	1046	1669	1059	2761	1110	1749	1155	3022	1177						
6500 [3062]	967	2715	950	2752	990	2791	1017	2786	1046	2838	1057	1679	1069	2814	1121	1759	1167	3075	1188						
6600 [3109]	980	2768	961	2805	1001	2842	1028	2837	1057	2890	1068	1689	1079	2867	1132	1769	1179	3128	1199						
6700 [3156]	993	2821	972	2858	1012	2895	1039	2890	1068	2941	1079	1699	1089	2920	1143	1779	1191	3181	1210						
6800 [3203]	1006	2874	983	2911	1023	2948	1050	2943	1079	2994	1090	1709	1099	2973	1154	1789	1203	3234	1221						
6900 [3250]	1019	2927	994	2964	1034	2999	1061	2994	1089	3047	1101	1719	1109	3026	1165	1799	1215	3287	1232						
7000 [3297]	1032	2980	1005	3017	1045	3052	1072	3047	1099	3099	1112	1729	1119	3079	1176	1809	1227	3340	1243						
7100 [3344]	1045	3033	1016	3070	1056	3105	1083	3100	1109	3152	1123	1739	1129	3132	1187	1819	1239	3393	1254						
7200 [3391]	1058	3086	1027	3123	1067	3158	1094	3153	1119	3205	1134	1749	1139	3185	1197	1829	1249	3446	1265						
7300 [3438]	1071	3139	1038	3176	1078	3211	1105	3206	1129	3258	1145	1759	1149	3238	1207	1839	1259	3499	1276						
7400 [3485]	1084	3192	1049	3229	1089	3264	1116	3263	1139	3311	1156	1769	1159	3291	1217	1849	1269	3552	1287						
7500 [3532]	1097	3245	1060	3282	1100	3317	1127	3312	1149	3364	1167	1779	1169	3344	1227	1859	1279	3605	1298						
7600 [3579]	1110	3298	1071	3335	1111	3370	1138	3365	1159	3417	1178	1789	1179	3397	1237	1869	1289	3658	1309						
7700 [3626]	1123	3351	1082	3388	1122	3423	1149	3422	1169	3474	1188	1799	1189	3450	1247	1879	1299	3711	1320						
7800 [3673]	1136	3404	1093	3441	1133	3476	1159	3475	1179	3527	1199	1809	1199	3503	1257	1889	1309	3764	1331						
7900 [3720]	1149	3457	1104	3494	1144	3529	1169	3528	1189	3579	1209	1819	1209	3556	1267	1899	1319	3817	1342						
8000 [3767]	1162	3510	1115	3547	1155	3582	1180	3581	1199	3632	1219	1829	1219	3609	1277	1909	1329	3870	1353						
8100 [3814]	1175	3563	1126	3600	1166	3635	1191	3634	1209	3685	1229	1839	1229	3662	1287	1919	1339	3923	1364						
8200 [3861]	1188	3616	1137	3653	1177	3688	1202	3687	1219	3738	1239	1849	1239	3715	1297	1929	1349	3976	1375						
8300 [3908]	1201	3669	1148	3706	1188	3741	1213	3740	1229	3789	1249	1859	1249	3768	1307	1939	1359	4029	1386						
8400 [3955]	1214	3722	1159	3759	1199	3794	1224	3793	1239	3840	1259	1869	1259	3819	1317	1949	1369	4082	1397						
8500 [4002]	1227	3775	1170	3812	1210	3846	1234	3845	1249	3896	1269	1879	1269	3866	1327	1959	1379	4135	1408						
8600 [4049]	1240	3828	1181	3865	1221	3899	1245	3898	1259	3947	1279	1889	1279	3926	1337	1969	1389	4188	1419						
8700 [4096]	1253	3881	1192	3918	1232	3952	1256	3951	1269	4000	1289	1899	1289	3976	1347	1979	1399	4241	1430						
8800 [4143]	1266	3934	1203	3971	1243	4005																			

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

Drive Package	F				G				H			
Motor H.P. [W]	2 [1,491.4]				3 [2,237.1]				3 [2,237.1]			
Blower Sheave	AK84H				AK84H				AK84H			
Motor Sheave	1VL40				1VP50				1VP56			
Belt	A49				A50				A51			
Turns Open	0	1	2	677	634	591	544	5	0	1	2	3
RPM	766	722	677	634	591	544	500	454	1,109	1,069	1,029	988
												948
												906

NOTES: 1. Do not set motor sheave below minimum or maximum turns open shown.

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

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

4. Factory sheave settings are shown in bold type.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—7.5 TON — 60 Hz — DOWNFLOW (CONTINUED)

Airflow		AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE				
CFM [L/s]	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Pressure Drop MERV 8	Pressure Drop MERV 13	
Resistance — Inches of Water [kPa]										
2400 [1133]	0.97	0.92	0.99	0.06 [.01]	0.01 [.00]	0.66 [.16]	0.53 [.13]	0.093 [.02]	0.047 [.01]	
2500 [1180]	0.98	0.93	0.99	0.06 [.01]	0.02 [.00]	0.71 [.18]	0.57 [.14]	0.098 [.02]	0.055 [.01]	
2600 [1227]	0.99	0.95	0.99	0.06 [.02]	0.02 [.01]	0.75 [.19]	0.60 [.15]	0.103 [.02]	0.062 [.01]	
2700 [1274]	0.99	0.96	0.99	0.07 [.02]	0.03 [.01]	0.80 [.20]	0.65 [.16]	0.108 [.03]	0.070 [.02]	
2800 [1321]	0.99	0.98	1.00	0.07 [.02]	0.04 [.01]	0.85 [.21]	0.69 [.17]	0.113 [.03]	0.078 [.02]	
2900 [1368]	1.00	1.00	1.00	0.08 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]	0.117 [.03]	0.085 [.02]	
3000 [1416]	1.01	1.01	1.00	0.08 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]	0.122 [.03]	0.093 [.02]	
3100 [1463]	1.01	1.03	1.00	0.09 [.02]	0.06 [.02]	1.02 [.25]	0.86 [.21]	0.127 [.03]	0.100 [.02]	
3200 [1510]	1.02	1.04	1.01	0.10 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]	0.132 [.03]	0.108 [.03]	
3300 [1557]	1.02	1.06	1.01	0.10 [.03]	0.08 [.02]	1.15 [.29]	0.99 [.25]	0.137 [.03]	0.115 [.03]	
3400 [1604]	1.03	1.08	1.01	0.11 [.03]	0.09 [.02]	1.21 [.30]	1.05 [.26]	0.142 [.03]	0.123 [.03]	
3500 [1652]	1.04	1.09	1.01	0.11 [.03]	0.10 [.02]	1.29 [.32]	1.09 [.27]	0.147 [.04]	0.131 [.03]	
3600 [1699]	1.04	1.11	1.02	0.12 [.03]	0.11 [.03]	1.36 [.34]	1.13 [.28]	0.152 [.04]	0.138 [.03]	

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

[] Designates Metric Conversions

[illegible]

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

Drive Package	F					G					H							
Motor H.P. [W]	2 [1,491.4]					3 [2,237.1]					3 [2,237.1]							
Blower Sheave	AK84H					AK84H					AK84H							
Motor Sheave	1VL40					1VP50					1VP56							
Belt	A49					A50					A51							
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5						
RPM	766	720	676	632	587	545	989	947	904	863	821	778	1,075	1,067	1,031	989	947	906

NOTES: 1. Do not set motor sheave below minimum or maximum turns open shown.

2. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
3. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.
4. Factory sheave settings are shown in bold type.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—7.5 TON — 60 Hz — SIDEFLOW (CONTINUED)

Airflow	AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE					
	CFM [L/s]	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Pressure Drop MERV 8	Pressure Drop MERV 13
2400 [1133]	0.97	0.92	0.99	0.99	0.06 [.01]	0.21 [0.05]	0.66 [.16]	0.53 [.13]	0.093 [.02]	0.047 [.01]
2500 [1180]	0.97	0.93	0.99	0.99	0.06 [.01]	0.25 [0.06]	0.71 [.18]	0.57 [.14]	0.098 [.02]	0.055 [.01]
2600 [1227]	0.98	0.95	0.99	0.99	0.06 [.02]	0.28 [0.07]	0.75 [.19]	0.60 [.15]	0.103 [.02]	0.062 [.01]
2700 [1274]	0.99	0.96	0.99	0.99	0.07 [.02]	0.32 [0.08]	0.80 [.20]	0.65 [.16]	0.108 [.03]	0.070 [.02]
2800 [1321]	0.99	0.98	1.00	1.00	0.07 [.02]	0.36 [0.09]	0.85 [.21]	0.69 [.17]	0.113 [.03]	0.078 [.02]
2900 [1368]	1.00	1.00	1.00	1.00	0.08 [.02]	0.39 [0.10]	0.91 [.23]	0.74 [.18]	0.117 [.03]	0.085 [.02]
3000 [1416]	1.01	1.01	1.00	1.00	0.08 [.02]	0.43 [0.11]	0.96 [.24]	0.79 [.20]	0.122 [.03]	0.093 [.02]
3100 [1463]	1.01	1.03	1.00	1.00	0.09 [.02]	0.47 [0.12]	1.02 [.25]	0.86 [.21]	0.127 [.03]	0.100 [.02]
3200 [1510]	1.02	1.04	1.01	1.01	0.10 [.02]	0.51 [0.13]	1.08 [.27]	0.92 [.23]	0.132 [.03]	0.108 [.03]
3300 [1557]	1.02	1.06	1.01	1.01	0.10 [.03]	0.54 [0.14]	1.15 [.29]	0.99 [.25]	0.137 [.03]	0.115 [.03]
3400 [1604]	1.03	1.08	1.01	1.01	0.11 [.03]	0.58 [0.14]	1.21 [.30]	1.05 [.26]	0.142 [.03]	0.123 [.03]
3500 [1652]	1.04	1.09	1.01	1.01	0.11 [.03]	0.62 [0.15]	1.29 [.32]	1.09 [.27]	0.147 [.04]	0.131 [.03]
3600 [1699]	1.04	1.11	1.02	1.02	0.12 [.03]	0.66 [0.16]	1.36 [.34]	1.13 [.28]	0.152 [.04]	0.138 [.03]

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

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]		Model RHPDYB102 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																						
		External Static Pressure—Inches of Water [kPa]																																						
		0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																			
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W															
2700 [127.4]	—	—	—	—	—	574	671	608	736	640	803	672	871	704	940	734	1010	765	1082	795	1155	824	1229	853	1305	881	1382	909	1460	936	1540	963	1620	989	1703	1015	1786	1040	1871	
2800 [132.1]	—	—	—	—	—	582	710	615	777	647	845	678	915	709	986	740	1058	770	1131	799	1206	828	1282	856	1360	884	1439	911	1519	938	1600	964	1683	990	1767	1015	1853	1040	1940	
2900 [136.8]	—	—	—	—	558	684	590	752	622	820	654	891	685	962	715	1035	745	1109	775	1184	804	1261	832	1339	860	1418	887	1499	914	1581	940	1664	966	1749	991	1835	1016	1922	1040	2011
3000 [141.6]	—	—	—	—	566	727	598	796	630	867	661	939	692	1012	722	1087	751	1163	780	1240	809	1319	836	1399	864	1480	891	1562	917	1646	943	1731	968	1818	993	1906	1017	1995	1040	2086
3100 [146.3]	—	—	—	—	575	773	607	844	638	917	669	991	699	1066	728	1142	757	1220	786	1299	814	1380	841	1461	868	1544	894	1629	920	1715	945	1802	970	1890	994	1980	1018	2071	1041	2163
3200 [151.0]	—	—	—	—	584	822	616	895	646	970	676	1045	706	1122	735	1201	763	1280	791	1361	819	1444	846	1527	872	1612	898	1698	923	1786	948	1875	972	1965	996	2057	1019	2150	1042	2244
3300 [155.7]	—	—	563	801	594	875	625	949	655	1026	684	1103	713	1182	742	1262	770	1344	797	1427	824	1511	851	1596	877	1683	902	1771	927	1861	951	1951	975	2044	998	2137	1021	2232	1043	2328
3400 [160.4]	—	—	573	855	604	930	634	1007	663	1085	693	1164	721	1245	749	1327	777	1410	804	1495	830	1581	856	1668	882	1757	906	1847	931	1938	955	2031	978	2125	1001	2220	1023	2317	1045	2415
3500 [165.2]	—	—	583	911	613	988	643	1067	672	1147	701	1228	729	1311	757	1395	784	1480	810	1566	836	1654	862	1743	887	1834	911	1926	935	2019	958	2114	981	2209	1003	2292	1025	2405	1046	2505
3600 [169.9]	564	893	594	971	624	1050	653	1130	682	1212	710	1295	737	1380	764	1465	791	1553	817	1641	843	1731	868	1822	892	1914	916	2008	939	2103	962	2199	984	2297	1006	2396	1027	2496	1048	2598
3700 [174.6]	575	954	605	1034	634	1115	663	1197	691	1281	719	1366	746	1452	772	1539	798	1628	824	1719	849	1810	874	1903	897	1997	921	2093	944	2190	966	2288	988	2388	1009	2489	1030	2591	1050	2694
3800 [179.3]	587	1018	616	1100	645	1182	673	1267	701	1352	728	1439	755	1527	781	1617	806	1707	831	1799	856	1893	880	1968	903	2084	926	2181	949	2280	970	2380	992	2482	1013	2584	1033	2688	1053	2794
3900 [184.0]	599	1085	627	1169	656	1253	683	1339	711	1427	737	1515	763	1605	789	1697	814	1789	839	1883	863	1979	886	2075	909	2172	932	2273	954	2373	975	2475	996	2575	1016	2683	1036	2789	1055	2896
4000 [188.8]	611	1156	639	1241	667	1327	694	1415	721	1504	747	1595	773	1687	798	1780	822	1875	846	1970	870	2068	893	2166	916	2266	938	2367	959	2470	980	2573	1000	2679	1020	2785	1039	2893	—	—
4100 [193.5]	623	1229	651	1316	678	1405	705	1494	731	1585	757	1678	782	1771	807	1866	831	1963	854	2061	878	2160	900	2260	922	2362	944	2465	964	2569	985	2675	1005	2782	1024	2890	1043	3000	—	—

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

Drive Package	F						G						H					
Motor H.P. [W]	2 [1,491.4]						3 [2,237.1]						3 [2,237.1]					
Blower Sheave	AK84H						AK84H						AK84H					
Motor Sheave	1VP40						1VP50						1VP56					
Belt	A49						A50						A51					
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	765	724	680	640	601	558	978	940	899	860	818	777	—	1,052	1,018	979	941	901

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

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON — 60 Hz — DOWNFLOW (CONTINUED)

Airflow		AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE				
CFM [L/s]	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Pressure Drop MERV 8	Pressure Drop MERV 13	
Resistance — Inches of Water [kPa]										
2400 [1133]	0.97	0.92	0.99	0.06 [.01]	0.21 [0.05]	0.66 [.16]	0.53 [.13]	0.093 [.02]	0.047 [.01]	
2500 [1180]	0.97	0.93	0.99	0.06 [.01]	0.25 [0.06]	0.71 [.18]	0.57 [.14]	0.098 [.02]	0.055 [.01]	
2600 [1227]	0.98	0.95	0.99	0.06 [.02]	0.28 [0.07]	0.75 [.19]	0.60 [.15]	0.103 [.02]	0.062 [.01]	
2700 [1274]	0.99	0.96	0.99	0.07 [.02]	0.32 [0.08]	0.80 [.20]	0.65 [.16]	0.108 [.03]	0.070 [.02]	
2800 [1321]	0.99	0.98	1.00	0.07 [.02]	0.36 [0.09]	0.85 [.21]	0.69 [.17]	0.113 [.03]	0.078 [.02]	
2900 [1368]	1.00	1.00	1.00	0.08 [.02]	0.39 [0.10]	0.91 [.23]	0.74 [.18]	0.117 [.03]	0.085 [.02]	
3000 [1416]	1.01	1.01	1.00	0.08 [.02]	0.43 [0.11]	0.96 [.24]	0.79 [.20]	0.122 [.03]	0.093 [.02]	
3100 [1463]	1.01	1.03	1.00	0.09 [.02]	0.47 [0.12]	1.02 [.25]	0.86 [.21]	0.127 [.03]	0.100 [.02]	
3200 [1510]	1.02	1.04	1.01	0.10 [.02]	0.51 [0.13]	1.08 [.27]	0.92 [.23]	0.132 [.03]	0.108 [.03]	
3300 [1557]	1.02	1.06	1.01	0.10 [.03]	0.54 [0.14]	1.15 [.29]	0.99 [.25]	0.137 [.03]	0.115 [.03]	
3400 [1604]	1.03	1.08	1.01	0.11 [.03]	0.58 [0.14]	1.21 [.30]	1.05 [.26]	0.142 [.03]	0.123 [.03]	
3500 [1652]	1.04	1.09	1.01	0.11 [.03]	0.62 [0.15]	1.29 [.32]	1.09 [.27]	0.147 [.04]	0.131 [.03]	
3600 [1699]	1.04	1.11	1.02	0.12 [.03]	0.66 [0.16]	1.36 [.34]	1.13 [.28]	0.152 [.04]	0.138 [.03]	

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

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RHPDYB102 Voltage 208/230, 460, 575 — 3 phase 60 Hz																							
	External Static Pressure—Inches of Water [kPa]																							
	0.1 [0.2]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]				
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2700 [127.4]	—	—	—	—	—	583	707	613	760	643	815	673	874	703	935	733	998	762	1065	792	1134	821	1206	850
2800 [132.1]	—	—	—	—	—	559	688	589	740	618	794	648	852	677	912	706	974	736	1040	765	1108	794	1179	823
2900 [136.8]	—	—	—	—	—	565	722	594	776	623	832	653	891	681	953	710	1017	739	1084	768	1154	796	1227	825
3000 [141.6]	—	—	—	—	—	572	759	600	815	629	873	658	934	686	997	715	1064	743	1133	771	1204	799	1279	827
3100 [146.3]	—	—	—	—	—	579	800	607	857	635	917	663	980	691	1045	719	1113	747	1184	775	1257	802	1334	830
3200 [151.0]	—	—	—	—	—	558	788	586	844	614	903	642	965	669	1029	697	1096	724	1166	751	1238	779	1314	806
3300 [155.7]	—	—	—	—	—	566	833	594	891	621	952	648	1016	676	1082	703	1151	730	1222	756	1296	783	1373	810
3400 [160.4]	—	—	—	—	—	575	882	602	942	629	1004	656	1070	682	1138	709	1208	735	1282	762	1358	788	1436	814
3500 [165.2]	—	—	—	—	—	557	876	584	934	610	996	637	1060	663	1127	689	1197	715	1269	741	1344	767	1422	793
3600 [169.9]	—	—	—	—	—	567	929	593	990	619	1053	645	1119	671	1188	697	1259	722	1334	748	1411	773	1490	799
3700 [174.6]	—	—	—	—	—	577	986	603	1049	628	1114	654	1182	679	1252	705	1325	730	1401	755	1480	780	1561	804
3800 [179.3]	562	985	588	1047	613	1111	638	1178	663	1247	688	1319	713	1394	737	1472	762	1553	786	1636	811	1722	835	1810
3900 [184.0]	574	1047	599	1110	623	1176	648	1245	673	1316	697	1390	721	1467	746	1546	770	1629	794	1714	817	1801	841	1892
4000 [188.8]	586	1112	610	1177	634	1245	658	1315	683	1388	706	1464	730	1543	754	1624	778	1708	801	1795	824	1884	848	1976
4100 [193.5]	598	1181	622	1248	645	1317	669	1389	693	1464	716	1542	740	1622	763	1705	786	1791	809	1879	832	1970	855	2064

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

Drive Package	F						G						H					
Motor H.P. [W]	2 [1,491.4]						3 [2,237.1]						3 [2,237.1]					
Blower Sheave	AK84H						AK84H						AK84H					
Motor Sheave	1VP40						1VP50						1VP56					
Belt	A49						A50						A51					
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	765	724	684	641	598	557	970	942	898	861	821	779	2260	922	2362	945	2467	967

NOTES: 1. Do not set motor sheave below minimum or maximum turns open shown.

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

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

4. Factory sheave settings are shown in bold type.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON — 60 Hz — SIDEFLOW (CONTINUED)

Airflow		AIRFLOW CORRECTION FACTORS *				COMPONENT AIRFLOW RESISTANCE				
CFM [L/s]	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Pressure Drop MERV 8	Pressure Drop MERV 13	
Resistance — Inches of Water [kPa]										
2700 [1274]	0.99	0.96	0.99	0.07 [0.02]	0.32 [0.08]	0.80 [0.20]	0.65 [0.16]	0.108 [0.03]	0.070 [0.02]	
2800 [1321]	0.99	0.98	1.00	0.07 [0.02]	0.36 [0.09]	0.85 [0.21]	0.69 [0.17]	0.113 [0.03]	0.078 [0.02]	
2900 [1368]	1.00	1.00	1.00	0.08 [0.02]	0.39 [0.10]	0.91 [0.23]	0.74 [0.18]	0.117 [0.03]	0.085 [0.02]	
3000 [1416]	1.01	1.01	1.00	0.08 [0.02]	0.43 [0.11]	0.96 [0.24]	0.79 [0.20]	0.122 [0.03]	0.093 [0.02]	
3100 [1463]	1.01	1.03	1.00	0.09 [0.02]	0.47 [0.12]	1.02 [0.25]	0.86 [0.21]	0.127 [0.03]	0.100 [0.02]	
3200 [1510]	1.02	1.04	1.01	0.10 [0.02]	0.51 [0.13]	1.08 [0.27]	0.92 [0.23]	0.132 [0.03]	0.108 [0.03]	
3300 [1557]	1.02	1.06	1.01	0.10 [0.03]	0.54 [0.14]	1.15 [0.29]	0.99 [0.25]	0.137 [0.03]	0.115 [0.03]	
3400 [1604]	1.03	1.08	1.01	0.11 [0.03]	0.58 [0.14]	1.21 [0.30]	1.05 [0.26]	0.142 [0.03]	0.123 [0.03]	
3500 [1652]	1.04	1.09	1.01	0.11 [0.03]	0.62 [0.15]	1.29 [0.32]	1.09 [0.27]	0.147 [0.04]	0.131 [0.03]	
3600 [1699]	1.04	1.11	1.02	0.12 [0.03]	0.66 [0.16]	1.36 [0.34]	1.13 [0.28]	0.152 [0.04]	0.138 [0.03]	
3700 [1746]	1.05	1.12	1.02	0.13 [0.03]	0.70 [0.17]	1.43 [0.36]	1.18 [0.29]	0.157 [0.04]	0.146 [0.04]	
3800 [1793]	1.05	1.14	1.02	0.13 [0.03]	0.74 [0.18]	1.50 [0.37]	1.23 [0.31]	0.162 [0.04]	0.153 [0.04]	
3900 [1840]	1.06	1.16	1.02	0.14 [0.04]	0.77 [0.19]	1.59 [0.40]	1.31 [0.33]	0.167 [0.04]	0.161 [0.04]	
4000 [1888]	1.07	1.17	1.02	0.15 [0.04]	0.81 [0.20]	1.68 [0.42]	1.38 [0.34]	0.171 [0.04]	0.169 [0.04]	
4100 [1935]	1.07	1.19	1.03	0.15 [0.04]	0.85 [0.21]	1.74 [0.43]	1.44 [0.36]	0.176 [0.04]	0.176 [0.04]	

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

[] Designates Metric Conversions

Air Flow CFM (L/s)	Model RHPDYB120				Voltage 208/230, 460, 575 — 3 phase 60 Hz												External Static Pressure—Inches of Water [kPa]																							
	0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]		1.6 [0.40]		1.7 [0.42]		1.8 [0.45]		1.9 [0.47]		2.0 [0.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
33200 [1510]	620	952	648	1005	676	1059	704	1115	732	1174	759	1234	785	1295	812	1359	838	1425	864	1492	889	1562	914	1633	939	1706	964	1781	988	1858	1011	1937	1035	2017	1058	2100	1081	2184	1103	2270
33300 [1557]	634	998	662	1053	690	1110	718	1169	745	1229	771	1292	798	1356	824	1422	850	1491	875	1561	900	1632	925	1706	949	1782	973	1859	997	1939	1020	2020	1043	2103	1066	2188	1088	2275	1110	2363
3400 [1604]	649	1049	677	1106	704	1166	731	1227	758	1290	784	1355	810	1422	836	1491	861	1561	886	1634	911	1708	935	1794	959	1863	983	1942	1006	2024	1029	2108	1052	2194	1074	2281	1096	2370	1118	2462
35350 [1652]	663	1105	691	1165	718	1227	744	1291	771	1356	797	1424	822	1493	848	1564	873	1637	897	1712	922	1789	946	1868	969	1948	993	2031	1016	2115	1038	2201	1060	2289	1082	2379	1104	2471	1125	2565
3600 [1699]	678	1166	705	1229	732	1293	758	1359	784	1427	809	1497	835	1569	860	1643	884	1718	900	1796	932	1875	956	1956	979	2039	1002	2124	1025	2211	1047	2300	1069	2390	1091	2483	1112	2577	1133	2673
37300 [1746]	693	1232	719	1297	745	1364	771	1433	797	1503	822	1576	847	1650	874	1726	898	1810	920	1884	943	1966	967	2050	990	2135	1012	2223	1034	2312	1056	2403	1078	2496	1099	2591	1120	2688	1140	2787
38800 [1793]	707	1303	734	1371	759	1440	785	1511	810	1584	835	1659	860	1736	884	1815	908	1896	931	1978	954	2062	977	2148	1000	2237	1022	2326	1044	2418	1065	2512	1086	2607	1107	2705	1128	2804	1148	2905
39900 [1840]	722	1380	748	1450	773	1521	799	1595	823	1671	848	1748	872	1827	896	1909	919	1992	942	2077	965	2163	988	2252	1010	2343	1032	2435	1053	2529	1074	2626	1095	2724	1116	2823	1136	2925	1156	3029
41000 [1888]	737	1461	762	1533	787	1608	812	1684	837	1762	861	1842	884	1924	908	2007	931	2093	954	2180	976	2270	998	2361	1020	2454	1042	2549	1063	2646	1083	2744	1104	2845	1124	2947	1144	3051	1163	3158
41000 [1935]	752	1547	777	1622	801	1699	826	1778	850	1858	874	1941	897	2025	920	2111	943	2199	965	2289	987	2381	1009	2475	1030	2570	1051	2668	1072	2767	1093	2868	1113	2971	1132	3076	1152	3183	—	—
42400 [2002]	766	1639	91	1716	815	1796	839	1877	860	1967	887	2040	910	2132	932	2220	955	2311	977	2448	987	2597	1020	2594	1040	2692	1061	2792	1082	2893	1102	2997	1121	3102	1141	3210	1160	3319	—	—
43000 [2029]	781	1735	806	1815	830	1897	853	1981	877	2066	900	2154	922	2243	944	2334	966	2427	988	2522	1009	2619	1030	2718	1051	2818	1071	2920	1091	3025	1111	3131	1130	3239	1149	3349	—	—		
44000 [2076]	796	1837	820	1919	844	2004	867	2090	890	2178	913	2268	935	2360	957	2453	978	2549	1000	2646	1021	2745	1041	2847	1061	2950	1081	3054	1101	3161	1120	3270	1139	3380	1158	3493	—	—		
45000 [2123]	811	1944	835	2029	858	2115	881	2204	903	2295	926	2387	947	2481	969	2577	990	2675	1011	2775	1032	2877	1052	2981	1072	3086	1091	3194	1111	3303	1130	3414	1148	3527	—	—	—	—		
46000 [2171]	826	2056	849	2143	872	2232	895	2323	917	2416	939	2511	960	2608	981	2707	1002	2807	1023	2910	1043	3014	1063	3120	1082	3228	1101	3338	1120	3449	1139	3563	1157	3679	—	—	—	—		
47000 [2218]	841	2172	864	2262	886	2354	908	2448	930	2543	952	2641	969	2740	994	2841	1014	2944	1034	3049	1054	3156	1074	3264	1093	3375	1112	3487	1130	3601	1148	3717	—	—	—	—	—			
48000 [2265]	856	2294	878	2387	900	2481	922	2577	944	2675	965	2775	986	2877	1006	2980	1026	3086	1046	3193	1065	3302	1084	3414	1103	3526	1122	3641	1140	3758	1158	3877	—	—	—	—	—			

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

Drive Package	F					G					H							
Motor H.P. [W]	2 [1,491.4]					3 [2,237.1]					3 [2,237.1]							
Blower Sheave	AK79H					AK79H					AK79H							
Motor Sheave	1VL40					1VP50					1VP56							
Belt	A49					A50					A51							
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	826	781	735	689	643	591	1,041	999	956	914	870	826	1,159	1,121	1,080	1,039	998	955

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

2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

7 Designates Metric Conversions

AIRFLOW PERFORMANCE— 10 TON — 60 Hz — DOWNFLOW (CONTINUED)

Airflow	AIRFLOW CORRECTION FACTORS*				COMPONENT AIRFLOW RESISTANCE					
	CFM [L/s]	Total I kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3415 &Concentric Adapter RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AED3415 &Concentric Adapter RXMC-DD02 (Drop)	Pressure Drop MERV 8	Pressure Drop MERV 13
	3200 [1510]	0.96	0.91	0.98	0.07 [.02]	0.07 [.02]	0.74 [.18]	0.56 [.14]	0.100 [.02]	0.058 [.02]
	3300 [1557]	0.97	0.92	0.99	0.07 [.02]	0.08 [.02]	0.79 [.20]	0.59 [.15]	0.104 [.03]	0.065 [.02]
	3400 [1604]	0.97	0.93	0.99	0.07 [.02]	0.09 [.02]	0.84 [.21]	0.62 [.15]	0.108 [.03]	0.071 [.02]
	3500 [1652]	0.98	0.94	0.99	0.08 [.02]	0.10 [.02]	0.90 [.22]	0.66 [.16]	0.112 [.03]	0.077 [.02]
	3600 [1699]	0.98	0.95	0.99	0.08 [.02]	0.11 [.03]	0.95 [.24]	0.69 [.17]	0.116 [.03]	0.083 [.02]
	3700 [1746]	0.99	0.97	1.00	0.09 [.02]	0.12 [.03]	1.00 [.25]	0.73 [.18]	0.120 [.03]	0.089 [.02]
	3800 [1793]	0.99	0.98	1.00	0.09 [.02]	0.13 [.03]	1.04 [.26]	0.76 [.19]	0.124 [.03]	0.095 [.02]
	3900 [1840]	1.00	0.99	1.00	0.09 [.02]	0.15 [.04]	1.09 [.27]	0.80 [.20]	0.128 [.03]	0.102 [.02]
	4000 [1888]	1.00	1.00	1.01	0.10 [.02]	0.16 [.04]	1.13 [.28]	0.84 [.21]	0.132 [.03]	0.108 [.03]
	4100 [1935]	1.00	1.01	1.01	0.10 [.03]	0.17 [.04]	1.19 [.30]	0.88 [.22]	0.136 [.03]	0.114 [.03]
	4200 [1982]	1.01	1.02	1.01	0.11 [.03]	0.19 [.05]	1.24 [.31]	0.92 [.23]	0.140 [.03]	0.120 [.03]
	4300 [2029]	1.01	1.03	1.01	0.11 [.03]	0.20 [.05]	1.31 [.33]	0.97 [.24]	0.144 [.03]	0.126 [.03]
	4400 [2076]	1.02	1.05	1.02	0.12 [.03]	0.21 [.05]	1.37 [.34]	1.02 [.25]	0.148 [.04]	0.132 [.03]
	4500 [2123]	1.02	1.06	1.02	0.13 [.03]	0.23 [.06]	1.43 [.35]	1.07 [.27]	0.152 [.04]	0.138 [.03]
	4600 [2171]	1.03	1.07	1.02	0.13 [.03]	0.24 [.06]	1.48 [.37]	1.11 [.28]	0.156 [.04]	0.145 [.04]
	4700 [2218]	1.03	1.08	1.03	0.14 [.03]	0.26 [.06]	1.54 [.38]	1.15 [.29]	0.160 [.04]	0.151 [.04]
	4800 [2265]	1.04	1.09	1.03	0.14 [.04]	0.28 [.07]	1.59 [.40]	1.19 [.30]	0.164 [.04]	0.157 [.04]

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

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 10 TON — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RHPDYB120 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure—Inches of Water [kPa]																																							
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																				
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W																			
3200 [1510]	—	620	1031	650	1078	679	1128	708	1180	736	1235	765	1291	792	1349	820	1410	847	1472	874	1537	900	1604	926	1672	951	1743	977	1817	1001	1892	1026	1969	1050	2049	1074	2130	1097	2214	
3300 [1557]	603	1031	632	1079	661	1129	690	1181	719	1235	747	1292	775	1350	802	1411	829	1474	855	1538	882	1605	908	1674	933	1746	958	1819	983	1894	1007	1972	1031	2051	1055	2133	1078	2217	1101	2303
3400 [1604]	615	1081	644	1131	673	1183	702	1238	730	1294	757	1353	785	1414	812	1476	838	1541	864	1608	890	1678	915	1749	941	1822	965	1898	990	1976	1014	2055	1037	2137	1060	2221	1083	2307	1106	2395
3500 [1652]	628	1134	657	1187	685	1241	713	1298	741	1357	768	1418	795	1481	821	1546	847	1613	873	1682	899	1754	924	1827	948	1903	972	1981	996	2061	1020	2143	1043	2227	1066	2313	1088	2401	1110	2492
3600 [1699]	641	1191	669	1246	697	1303	725	1362	752	1423	779	1486	805	1551	831	1619	857	1688	882	1760	907	1834	932	1909	956	1967	980	2067	1003	2149	1026	2234	1049	2320	1071	2409	1093	2499	1115	2592
3700 [1746]	654	1252	682	1309	709	1368	737	1430	763	1493	790	1558	816	1626	841	1695	866	1767	891	1841	916	1917	940	1995	964	2075	987	2158	1010	2242	1033	2329	1055	2417	1077	2508	1099	2601	1120	2696
3800 [1793]	667	1317	695	1376	722	1438	748	1501	775	1567	801	1634	826	1704	851	1776	876	1850	901	1926	925	2004	948	2085	972	2167	995	2252	1017	2338	1040	2427	1061	2518	1083	2611	1104	2706	1125	2804
3900 [1840]	681	1386	708	1447	734	1511	760	1576	786	1644	812	1714	837	1786	862	1860	886	1937	910	2015	934	2095	957	2178	980	2263	1003	2350	1025	2439	1046	2530	1068	2623	1089	2718	1110	2815	1130	2915
4000 [1888]	694	1458	721	1521	747	1587	773	1655	798	1725	823	1798	848	1872	872	1948	896	2027	920	2108	943	2190	966	2275	988	2362	1010	2451	1032	2542	1053	2636	1074	2731	1095	2829	1115	2928	1135	3030
4100 [1935]	708	1534	734	1600	760	1668	785	1738	810	1810	835	1885	859	1961	883	2040	906	2121	930	2204	952	2289	975	2376	997	2465	1018	2557	1040	2650	1061	2746	1081	2843	1101	2943	1121	3045	1141	3149
4200 [1982]	722	1613	747	1682	773	1752	797	1825	822	1899	846	1976	870	2055	894	2136	917	2219	939	2304	962	2391	984	2481	1005	2572	1027	2666	1047	2761	1068	2859	1088	2959	1108	3061	1127	3165	1146	3272
4300 [2029]	735	1697	761	1767	786	1840	810	1915	834	1992	858	2071	881	2152	904	2235	927	2320	949	2408	971	2497	993	2589	1014	2683	1035	2779	1055	2877	1075	2977	1095	3079	1114	3183	1133	3290	1152	3398
4400 [2076]	750	1784	774	1857	799	1932	823	2009	847	2088	870	2169	893	2253	915	2338	938	2426	960	2515	981	2607	1002	2701	1023	2797	1043	2895	1063	2995	1083	3098	1102	3202	1121	3309	1140	3417	1158	3528
4500 [2123]	764	1875	788	1950	812	2027	836	2107	859	2188	882	2271	904	2357	927	2445	948	2535	970	2627	991	2721	1012	2817	1032	2915	1052	3015	1071	3118	1091	3223	1110	3329	1128	3438	1146	3549	—	—
4600 [2171]	778	1970	802	2047	826	2126	849	2208	872	2292	894	2377	916	2465	938	2555	959	2647	980	2742	1001	2838	1021	2936	1041	3037	1061	3134	1080	3244	1099	3351	1117	3460	1135	3571	1153	3685	—	—
4700 [2218]	793	2068	816	2148	839	2229	862	2313	884	2399	906	2487	928	2577	949	2670	970	2764	991	2860	1011	2959	1031	3060	1050	3163	1069	3267	1088	3374	1107	3484	1124	3596	1142	3708	1159	3824	—	—
4800 [2265]	807	2170	830	2252	853	2336	875	2422	897	2510	919	2601	940	2693	961	2788	982	2884	1002	2983	1021	3084	1041	3187	1060	3292	1078	3399	1097	3508	1115	3620	1133	3733	1149	3849	—	—		

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

Drive Package	F	G	H
Motor H.P. [W]	2 [1,491.4]	3 [2,237.1]	3 [2,237.1]
Blower Sheave	AK79H	AK79H	AK79H
Motor Sheave	1VL40	1VP50	1VP56
Belt	A49	A50	A51
Turns Open	0	1	0
RPM	817	773	731

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

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

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

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

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 10 TON — 60 Hz — SIDEFLOW (CONTINUED)

Airflow	AIRFLOW CORRECTION FACTORS*				COMPONENT AIRFLOW RESISTANCE					
	CFM [L/s]	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Resistance — Inches of Water [kPa]			
							Concentric Diffuser RXRN-AEF3415 & Concentric Adapter RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AED3415 & Concentric Adapter RXMC-DD02 (Drop)	Pressure Drop MERV 8	Pressure Drop MERV 13
3200 [1510]	0.96	0.91	0.98	0.07 [0.02]	0.31 [0.08]	0.74 [0.18]	0.56 [0.14]	0.100 [0.02]	0.058 [0.02]	
3300 [1557]	0.97	0.92	0.99	0.07 [0.02]	0.36 [0.09]	0.79 [0.20]	0.59 [0.15]	0.104 [0.03]	0.065 [0.02]	
3400 [1604]	0.97	0.93	0.99	0.07 [0.02]	0.42 [0.10]	0.84 [0.21]	0.62 [0.15]	0.108 [0.03]	0.071 [0.02]	
3500 [1652]	0.98	0.94	0.99	0.08 [0.02]	0.47 [0.12]	0.90 [0.22]	0.66 [0.16]	0.112 [0.03]	0.077 [0.02]	
3600 [1699]	0.98	0.95	0.99	0.08 [0.02]	0.52 [0.13]	0.95 [0.24]	0.69 [0.17]	0.116 [0.03]	0.083 [0.02]	
3700 [1746]	0.99	0.97	1.00	0.09 [0.02]	0.58 [0.14]	1.00 [0.25]	0.73 [0.18]	0.120 [0.03]	0.089 [0.02]	
3800 [1793]	0.99	0.98	1.00	0.09 [0.02]	0.63 [0.16]	1.04 [0.26]	0.76 [0.19]	0.124 [0.03]	0.095 [0.02]	
3900 [1840]	1.00	0.99	1.00	0.09 [0.02]	0.68 [0.17]	1.09 [0.27]	0.80 [0.20]	0.128 [0.03]	0.102 [0.02]	
4000 [1888]	1.00	1.00	1.01	0.10 [0.02]	0.73 [0.18]	1.13 [0.28]	0.84 [0.21]	0.132 [0.03]	0.108 [0.03]	
4100 [1935]	1.00	1.01	1.01	0.10 [0.03]	0.78 [0.19]	1.19 [0.30]	0.88 [0.22]	0.136 [0.03]	0.114 [0.03]	
4200 [1982]	1.01	1.02	1.01	0.11 [0.03]	0.83 [0.21]	1.24 [0.31]	0.92 [0.23]	0.140 [0.03]	0.120 [0.03]	
4300 [2029]	1.01	1.03	1.01	0.11 [0.03]	0.88 [0.22]	1.31 [0.33]	0.97 [0.24]	0.144 [0.03]	0.126 [0.03]	
4400 [2076]	1.02	1.05	1.02	0.12 [0.03]	0.93 [0.23]	1.37 [0.34]	1.02 [0.25]	0.148 [0.04]	0.132 [0.03]	
4500 [2123]	1.02	1.06	1.02	0.13 [0.03]	0.98 [0.24]	1.43 [0.35]	1.07 [0.27]	0.152 [0.04]	0.138 [0.03]	
4600 [2171]	1.03	1.07	1.02	0.13 [0.03]	1.03 [0.26]	1.48 [0.37]	1.11 [0.28]	0.156 [0.04]	0.145 [0.04]	
4700 [2218]	1.03	1.08	1.03	0.14 [0.03]	1.07 [0.27]	1.54 [0.38]	1.15 [0.29]	0.160 [0.04]	0.151 [0.04]	
4800 [2265]	1.04	1.09	1.03	0.14 [0.04]	1.12 [0.28]	1.59 [0.40]	1.19 [0.30]	0.164 [0.04]	0.157 [0.04]	

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

[] Designates Metric Conversions

ELECTRICAL DATA – RHPDYB SERIES							
		090ACF	090ACG 090ACH	090ADF	090ADG 090ADH	090AYF	090AYG 090AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	43/43	46/46	20	21	16	17
	Minimum Circuit Ampacity with Power Exhaust	48/48	51/51	22	24	17	18
	Minimum Overcurrent Protection Device Size	50/50	60/60	25	25	20	20
	Minimum Overcurrent Protection Device Size with Power Exhaust	60/60	60/60	25	30	20	20
	Maximum Overcurrent Protection Device Size	60/60	70/70	25	30	20	25
	Maximum Overcurrent Protection Device Size with Power Exhaust	70/70	70/70	30	30	25	25
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	25.2	25.2	10.6	10.6	8.6	8.6
	Amps (LRA), Comp. 1	178.5	178.5	79.1	79.1	65.0	65.0
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.4	2.4	1.5	1.5	1.1	1.1
	Amps (LRA, each)	5.6	5.6	3.1	3.1	2.5	2.5
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.2	9.2	3.0	4.6	2.4	3.5
	Amps (LRA, each)	47.0	74.5	24.0	38.1	19.0	30.0

ELECTRICAL DATA – RHPDYB SERIES							
		102ACF	102ACG 102ACH	102ADF	102ADG 102ADH	102AYF	102AYG 102AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	45/45	48/48	22	24	17	18
	Minimum Circuit Ampacity with Power Exhaust	50/50	53/53	25	26	18	19
	Minimum Overcurrent Protection Device Size	60/60	60/60	25	30	20	20
	Minimum Overcurrent Protection Device Size with Power Exhaust	60/60	60/60	30	30	20	25
	Maximum Overcurrent Protection Device Size	70/70	70/70	30	35	25	25
	Maximum Overcurrent Protection Device Size with Power Exhaust	70/70	70/70	35	35	25	25
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	26.8	26.8	12.5	12.5	9.4	9.4
	Amps (LRA), Comp. 1	190.7	190.7	100.2	100.2	65.0	65.0
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.4	2.4	1.5	1.5	1.5	1.5
	Amps (LRA, each)	5.6	5.6	3.1	3.1	3.1	3.1
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.2	9.2	3.0	4.6	2.4	3.5
	Amps (LRA, each)	47.0	74.5	24.0	38.1	19.0	30.0

ELECTRICAL DATA – RHPDYB SERIES							
		120ACF	120ACG 120ACH	120ADF	120ADG 120ADH	120AYF	120AYG 120AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	45/45	48/48	24	26	19	21
	Minimum Circuit Ampacity with Power Exhaust	50/50	53/53	27	28	21	22
	Minimum Overcurrent Protection Device Size	60/60	60/60	30	30	25	25
	Minimum Overcurrent Protection Device Size with Power Exhaust	60/60	60/60	30	35	25	25
	Maximum Overcurrent Protection Device Size	70/70	70/70	35	35	30	30
	Maximum Overcurrent Protection Device Size with Power Exhaust	70/70	70/70	40	40	30	30
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Amps (RLA), Comp. 1	26.5	26.5	14.0	14.0	11.5	11.5
	Amps (LRA), Comp. 1	255.0	255.0	123.0	123.0	93.7	93.7
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.4	2.4	1.5	1.5	1.5	1.5
	Amps (LRA, each)	5.6	5.6	3.1	3.1	3.1	3.1
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.2	9.2	3.0	4.6	2.4	3.5
	Amps (LRA, each)	47.0	74.5	24.0	38.1	19.0	30.0

208/230V THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply For Both Unit and Heater Kit							Separate Power Supply For Both Unit and Heater Kit						
Unit Model No. RHPDYB	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 208/230V	Heater Kit FLA	Unit Min. Ckt. Amperage	Unit Min. Ckt. Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size With Optional Powered Exhaust	Heater Kit Min. Ckt. Amperage	Heater Kit Max Fuse or Ckt. Bkr.	Air Cond. Min. Ckt. Amperage	Air Cond. Min. Ckt. Amperage with Optional Powered Exhaust	Air Cond. Max Fuse or Ckt. Bkt. Size	Air Cond. Max Ckt. Amperage with Optional Powered Exhaust
090ACF	NONE*	—	—	43/43	48/48	60/60	70/70	—	—	43/43	48/48	60/60	70/70
	DD10CP	7.4/9.9	20.6/23.8	69/73	74/78	80/90	90/90	26/30	30/30	43/43	48/48	60/60	70/70
	DD15CP	10.8/14.4	30.0/34.6	80/86	86/92	90/100	100/100	38/44	40/45	43/43	48/48	60/60	70/70
	DD20CP	14.8/19.8	41.2/47.6	94/102	100/108	100/110	110/110	52/60	60/60	43/43	48/48	60/60	70/70
	DD30CP	21.6/28.8	60.0/69.3	118/130	123/135	125/150	125/150	75/87	80/90	43/43	48/48	60/60	70/70
090ACG	DD40CP	29.7/39.6	82.4/95.2	146/162	151/167	150/175	175/175	103/119	110/125	43/43	48/48	60/60	70/70
	NONE*	—	—	46/46	51/51	70/70	70/70	—	—	46/46	51/51	70/70	70/70
	DD10CP	7.4/9.9	20.6/23.8	72/76	77/81	90/90	90/90	26/30	30/30	46/46	51/51	70/70	70/70
	DD15CP	10.8/14.4	30.0/34.6	83/89	89/95	100/100	100/110	38/44	40/45	46/46	51/51	70/70	70/70
	DD20CP	14.8/19.8	41.2/47.6	97/105	103/111	110/110	110/125	52/60	60/60	46/46	51/51	70/70	70/70
090ACH	DD30CP	21.6/28.8	60.0/69.3	121/133	126/138	125/150	150/150	75/87	80/90	46/46	51/51	70/70	70/70
	DD40CP	29.7/39.6	82.4/95.2	149/165	154/170	150/175	175/175	103/119	110/125	46/46	51/51	70/70	70/70
	NONE*	—	—	45/45	50/50	70/70	70/70	—	—	45/45	50/50	70/70	70/70
	DD10CP	7.4/9.9	20.6/23.8	71/75	76/80	90/90	90/100	26/30	30/30	45/45	50/50	70/70	70/70
	DD15CP	10.8/14.4	30.0/34.6	82/88	88/94	100/100	100/110	38/44	40/45	45/45	50/50	70/70	70/70
102ACF	DD20CP	14.8/19.8	41.2/47.6	96/104	102/110	110/110	110/110	52/60	60/60	45/45	50/50	70/70	70/70
	DD30CP	21.6/28.8	60.0/69.3	120/132	125/137	125/150	125/150	75/87	80/90	45/45	50/50	70/70	70/70
	DD40CP	29.7/39.6	82.4/95.2	148/164	153/169	150/175	175/175	103/119	110/125	45/45	50/50	70/70	70/70
	NONE*	—	—	48/48	53/53	70/70	70/70	—	—	48/48	53/53	70/70	70/70
	DD10CP	7.4/9.9	20.6/23.8	74/78	79/83	90/90	100/100	26/30	30/30	48/48	53/53	70/70	70/70
102ACG	DD15CP	10.8/14.4	30.0/34.6	85/91	91/97	100/100	100/110	38/44	40/45	48/48	53/53	70/70	70/70
	DD20CP	14.8/19.8	41.2/47.6	99/107	105/113	110/110	110/125	52/60	60/60	48/48	53/53	70/70	70/70
	DD30CP	21.6/28.8	60.0/69.3	123/135	128/140	125/150	150/150	75/87	80/90	48/48	53/53	70/70	70/70
	DD40CP	29.7/39.6	82.4/95.2	151/167	156/172	175/175	175/175	103/119	110/125	48/48	53/53	70/70	70/70
	NONE*	—	—	48/48	53/53	70/70	70/70	—	—	48/48	53/53	70/70	70/70
102ACH	DD10CP	7.4/9.9	20.6/23.8	74/78	79/83	90/90	100/100	26/30	30/30	48/48	53/53	70/70	70/70
	DD15CP	10.8/14.4	30.0/34.6	85/91	91/97	100/100	100/110	38/44	40/45	48/48	53/53	70/70	70/70
	DD20CP	14.8/19.8	41.2/47.6	99/107	105/113	110/110	110/125	52/60	60/60	48/48	53/53	70/70	70/70
	DD30CP	21.6/28.8	60.0/69.3	123/135	128/140	125/150	150/150	75/87	80/90	48/48	53/53	70/70	70/70
	DD40CP	29.7/39.6	82.4/95.2	151/167	156/172	175/175	175/175	103/119	110/125	48/48	53/53	70/70	70/70
120ACF	NONE*	—	—	45/45	50/50	70/70	70/70	—	—	45/45	50/50	70/70	70/70
	DD10CP	7.4/9.9	20.6/23.8	70/74	76/80	90/90	90/90	26/30	30/30	45/45	50/50	70/70	70/70
	DD15CP	10.8/14.4	30.0/34.6	82/88	88/93	100/100	100/110	38/44	40/45	45/45	50/50	70/70	70/70
	DD20CP	14.8/19.8	41.2/47.6	96/104	102/110	110/110	110/110	52/60	60/60	45/45	50/50	70/70	70/70
	DD30CP	21.6/28.8	60.0/69.3	120/131	125/137	125/150	125/150	75/87	80/90	45/45	50/50	70/70	70/70
120ACG	DD40CP	29.7/39.6	82.4/95.2	148/164	153/169	150/175	175/175	103/119	110/125	45/45	50/50	70/70	70/70
	NONE*	—	—	48/48	53/53	70/70	70/70	—	—	48/48	53/53	70/70	70/70
	DD10CP	7.4/9.9	20.6/23.8	73/77	79/83	90/90	90/100	26/30	30/30	48/48	53/53	70/70	70/70
	DD15CP	10.8/14.4	30.0/34.6	85/91	91/96	100/100	100/110	38/44	40/45	48/48	53/53	70/70	70/70
	DD20CP	14.8/19.8	41.2/47.6	99/107	105/113	110/110	110/125	52/60	60/60	48/48	53/53	70/70	70/70
120ACH	DD30CP	21.6/28.8	60.0/69.3	123/134	128/140	125/150	150/150	75/87	80/90	48/48	53/53	70/70	70/70
	DD40CP	29.7/39.6	82.4/95.2	151/167	156/172	175/175	175/175	103/119	110/125	48/48	53/53	70/70	70/70
	NONE*	—	—	48/48	53/53	70/70	70/70	—	—	48/48	53/53	70/70	70/70
	DD10CP	7.4/9.9	20.6/23.8	73/77	79/83	90/90	90/100	26/30	30/30	48/48	53/53	70/70	70/70
	DD15CP	10.8/14.4	30.0/34.6	85/91	91/96	100/100	100/110	38/44	40/45	48/48	53/53	70/70	70/70

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

460V THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION														
Single Power Supply For Both Unit and Heater Kit														
Unit Model No. RHPDYB	Heater Kit			Air Conditioner					Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 208/230V	Heater Kit FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. 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.	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max Fuse or Ckt. Bkr. Size	Air Cond. Max Ckt. Ampacity with Optional Powered Exhaust	
090ADF	NONE*	—	—	20	22	25	30	—	—	20	22	25	30	
	DD10DNV	9.9	11.9	35	37	40	40	15	15	20	22	25	30	
	DD15DNV	14.4	17.3	41	44	45	45	22	25	20	22	25	30	
	DD20DNV	19.8	23.8	49	52	50	60	30	30	20	22	25	30	
	DD30DNV	28.8	34.6	63	66	70	70	44	45	20	22	25	30	
090ADG	DD40DNV	39.6	47.6	79	82	80	90	60	60	20	22	25	30	
	NONE*	—	—	21	24	30	30	—	—	21	24	30	30	
	DD10DNV	9.9	11.9	36	39	40	45	15	15	21	24	30	30	
	DD15DNV	14.4	17.3	43	46	45	50	22	25	21	24	30	30	
	DD20DNV	19.8	23.8	51	54	60	60	30	30	21	24	30	30	
090ADH	DD30DNV	28.8	34.6	65	67	70	70	44	45	21	24	30	30	
	DD40DNV	39.6	47.6	81	84	90	90	60	60	21	24	30	30	
	NONE*	—	—	21	24	30	30	—	—	21	24	30	30	
	DD10DNV	9.9	11.9	36	39	40	45	15	15	21	24	30	30	
	DD15DNV	14.4	17.3	43	46	45	50	22	25	21	24	30	30	
102ADF	DD20DNV	19.8	23.8	51	54	60	60	30	30	21	24	30	30	
	DD30DNV	28.8	34.6	65	67	70	70	44	45	21	24	30	30	
	DD40DNV	39.6	47.6	81	84	90	90	60	60	21	24	30	30	
	NONE*	—	—	22	25	30	35	—	—	22	25	30	35	
	DD10DNV	9.9	11.9	37	40	45	45	15	15	22	25	30	35	
102ADG	DD15DNV	14.4	17.3	44	46	50	50	22	25	22	25	30	35	
	DD20DNV	19.8	23.8	52	55	60	60	30	30	22	25	30	35	
	DD30DNV	28.8	34.6	65	68	70	70	44	45	22	25	30	35	
	DD40DNV	39.6	47.6	82	84	90	90	60	60	22	25	30	35	
	NONE*	—	—	24	26	35	35	—	—	24	26	35	35	
102ADH	DD10DNV	9.9	11.9	39	41	45	50	15	15	24	26	35	35	
	DD15DNV	14.4	17.3	45	48	50	50	22	25	24	26	35	35	
	DD20DNV	19.8	23.8	53	56	60	60	30	30	24	26	35	35	
	DD30DNV	28.8	34.6	67	70	70	70	44	45	24	26	35	35	
	DD40DNV	39.6	47.6	83	86	90	90	60	60	24	26	35	35	
120ADF	NONE*	—	—	24	26	35	35	—	—	24	26	35	35	
	DD10DNV	9.9	11.9	39	41	45	50	15	15	24	26	35	35	
	DD15DNV	14.4	17.3	45	48	50	50	22	25	24	26	35	35	
	DD20DNV	19.8	23.8	53	56	60	60	30	30	24	26	35	35	
	DD30DNV	28.8	34.6	67	70	70	70	44	45	24	26	35	35	
120ADG	DD40DNV	39.6	47.6	83	86	90	90	60	60	24	26	35	35	
	NONE*	—	—	24	27	35	40	—	—	24	27	35	40	
	DD10DNV	9.9	11.9	39	42	45	50	15	15	24	27	35	40	
	DD15DNV	14.4	17.3	46	48	50	50	22	25	24	27	35	40	
	DD20DNV	19.8	23.8	54	56	60	60	30	30	24	27	35	40	
120ADH	DD30DNV	28.8	34.6	67	70	70	70	44	45	24	27	35	40	
	DD40DNV	39.6	47.6	83	86	90	90	60	60	24	27	35	40	
	NONE*	—	—	26	28	35	40	—	—	26	28	35	40	
	DD10DNV	9.9	11.9	40	43	50	50	15	15	26	28	35	40	
	DD15DNV	14.4	17.3	47	50	50	50	22	25	26	28	35	40	
120ADJ	DD20DNV	19.8	23.8	55	58	60	60	30	30	26	28	35	40	
	DD30DNV	28.8	34.6	69	72	70	80	44	45	26	28	35	40	
	DD40DNV	39.6	47.6	85	88	90	90	60	60	26	28	35	40	
	NONE*	—	—	26	28	35	40	—	—	26	28	35	40	
	DD10DNV	9.9	11.9	40	43	50	50	15	15	26	28	35	40	
120ADK	DD15DNV	14.4	17.3	47	50	50	50	22	25	26	28	35	40	
	DD20DNV	19.8	23.8	55	58	60	60	30	30	26	28	35	40	
	DD30DNV	28.8	34.6	69	72	70	80	44	45	26	28	35	40	
	DD40DNV	39.6	47.6	85	88	90	90	60	60	26	28	35	40	
	NONE*	—	—	26	28	35	40	—	—	26	28	35	40	
120ADL	DD10DNV	9.9	11.9	40	43	50	50	15	15	26	28	35	40	
	DD15DNV	14.4	17.3	47	50	50	50	22	25	26	28	35	40	
	DD20DNV	19.8	23.8	55	58	60	60	30	30	26	28	35	40	
	DD30DNV	28.8	34.6	69	72	70	80	44	45	26	28	35	40	
	DD40DNV	39.6	47.6	85	88	90	90	60	60	26	28	35	40	

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

575V THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply For Both Unit and Heater Kit							Separate Power Supply For Both Unit and Heater Kit						
Unit Model No. RHPDYB	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 208/230V	Heater Kit FLA	Unit Min. Ampacity	Unit Min. Ckt. 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.	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max Fuse or Ckt. Bkt. Size	Air Cond. Max Ckt. Ampacity with Optional Powered Exhaust
090AYF	NONE*	—	—	16	17	20	25	—	—	16	17	20	25
	DD10Y	10	9.6	28	29	30	30	13	15	16	17	20	25
	DD15Y	15	14.4	34	35	35	35	19	20	16	17	20	25
	DD20Y	20	19.3	40	41	40	40	25	25	16	17	20	25
	DD30Y	30	28.9	52	53	60	60	37	40	16	17	20	25
090AYG	DD40Y	40	38.5	64	65	70	70	49	50	16	17	20	25
	NONE*	—	—	17	18	25	25	—	—	17	18	25	25
	DD10Y	10	9.6	29	30	30	35	13	15	17	18	25	25
	DD15Y	15	14.4	35	36	35	35	19	20	17	18	25	25
	DD20Y	20	19.3	41	42	45	45	25	25	17	18	25	25
090AYH	DD30Y	30	28.9	53	54	60	60	37	40	17	18	25	25
	DD40Y	40	38.5	65	66	70	70	49	50	17	18	25	25
	NONE*	—	—	17	18	25	25	—	—	17	18	25	25
	DD10Y	10	9.6	29	30	30	35	13	15	17	18	25	25
	DD15Y	15	14.4	35	36	35	40	19	20	17	18	25	25
102AYF	DD20Y	20	19.3	41	42	45	45	25	25	17	18	25	25
	DD30Y	30	28.9	53	54	60	60	37	40	17	18	25	25
	DD40Y	40	38.5	65	66	70	70	49	50	17	18	25	25
	NONE*	—	—	18	19	25	25	—	—	18	19	25	25
	DD10Y	10	9.6	30	31	35	35	13	15	18	19	25	25
102AYG	DD15Y	15	14.4	36	37	40	40	19	20	18	19	25	25
	DD20Y	20	19.3	42	43	45	45	25	25	18	19	25	25
	DD30Y	30	28.9	54	55	60	60	37	40	18	19	25	25
	DD40Y	40	38.5	66	67	70	70	49	50	18	19	25	25
	NONE*	—	—	18	19	25	25	—	—	18	19	25	25
102AYH	DD10Y	10	9.6	30	31	35	35	13	15	18	19	25	25
	DD15Y	15	14.4	36	37	40	40	19	20	18	19	25	25
	DD20Y	20	19.3	42	43	45	45	25	25	18	19	25	25
	DD30Y	30	28.9	54	55	60	60	37	40	18	19	25	25
	DD40Y	40	38.5	66	67	70	70	49	50	18	19	25	25
120AYF	NONE*	—	—	19	21	30	30	—	—	19	21	30	30
	DD10Y	10	9.6	31	33	40	40	13	15	19	21	30	30
	DD15Y	15	14.4	38	39	40	45	19	20	19	21	30	30
	DD20Y	20	19.3	44	45	45	50	25	25	19	21	30	30
	DD30Y	30	28.9	56	57	60	60	37	40	19	21	30	30
120AYG	DD40Y	40	38.5	68	69	70	70	49	50	19	21	30	30
	NONE*	—	—	21	22	30	30	—	—	21	22	30	30
	DD10Y	10	9.6	33	34	40	40	13	15	21	22	30	30
	DD15Y	15	14.4	39	40	45	45	19	20	21	22	30	30
	DD20Y	20	19.3	45	46	50	50	25	25	21	22	30	30
120AYH	DD30Y	30	28.9	57	58	60	60	37	40	21	22	30	30
	DD40Y	40	38.5	69	70	70	70	49	50	21	22	30	30
	NONE*	—	—	21	22	30	30	—	—	21	22	30	30
	DD10Y	10	9.6	33	34	40	40	13	15	21	22	30	30
	DD15Y	15	14.4	39	40	45	45	19	20	21	22	30	30

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

A2L REFRIGERANT INSTALLATION SAFETY DATA

Model		RHPDYB090	RHPDYB102	RHPDYB120
Refrigerant Charge Weight (oz)		172.8	211.2	209.6
Minimum Circulation Qmin (CFM)		575.0	702.0	697.0
Altitude above Sea Level (ft)	Altitude Adjustment Factor	Minimum total space area, TAmin (sq-ft)		
0	1.000	319	389	386
1000	1.025	326	399	396
2000	1.051	335	409	406
3000	1.078	343	420	416
4000	1.107	353	431	428
5000	1.138	362	443	440
6000	1.170	373	455	452
6500	1.187	378	462	459

UNIT DIMENSIONS

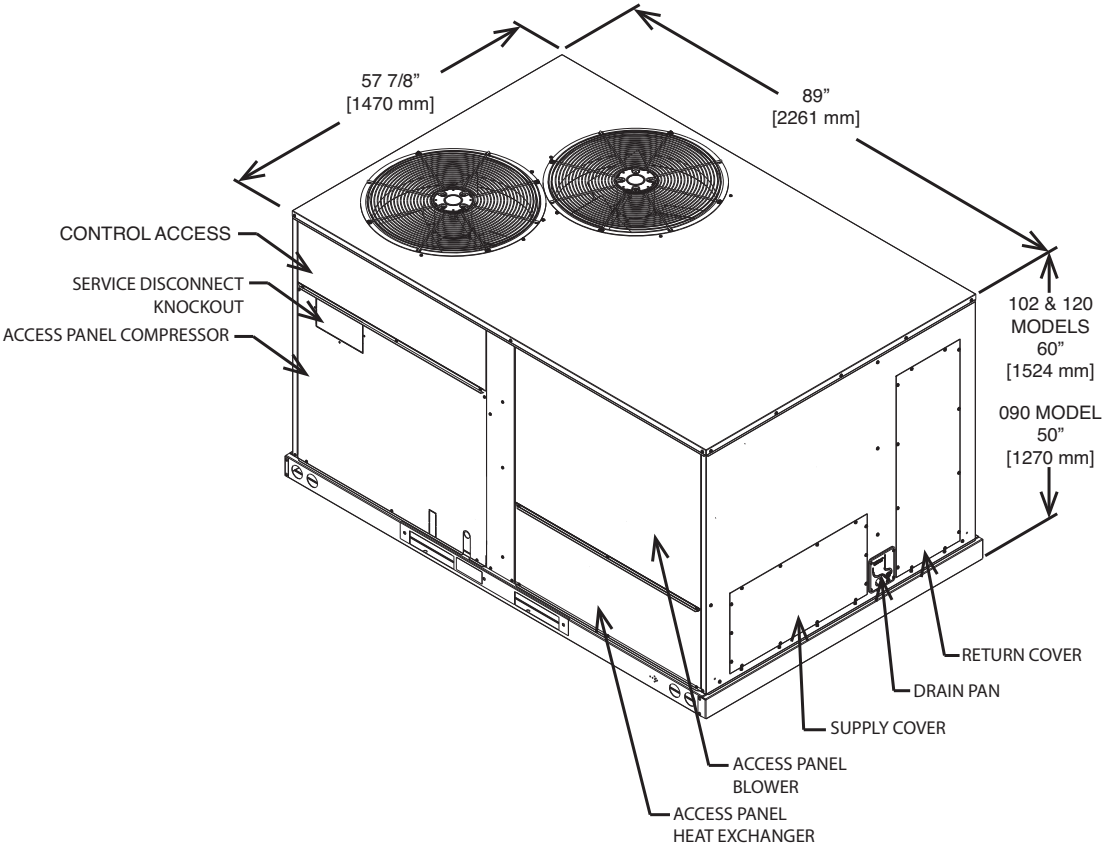


Illustration
ST-A1273-26_B-00

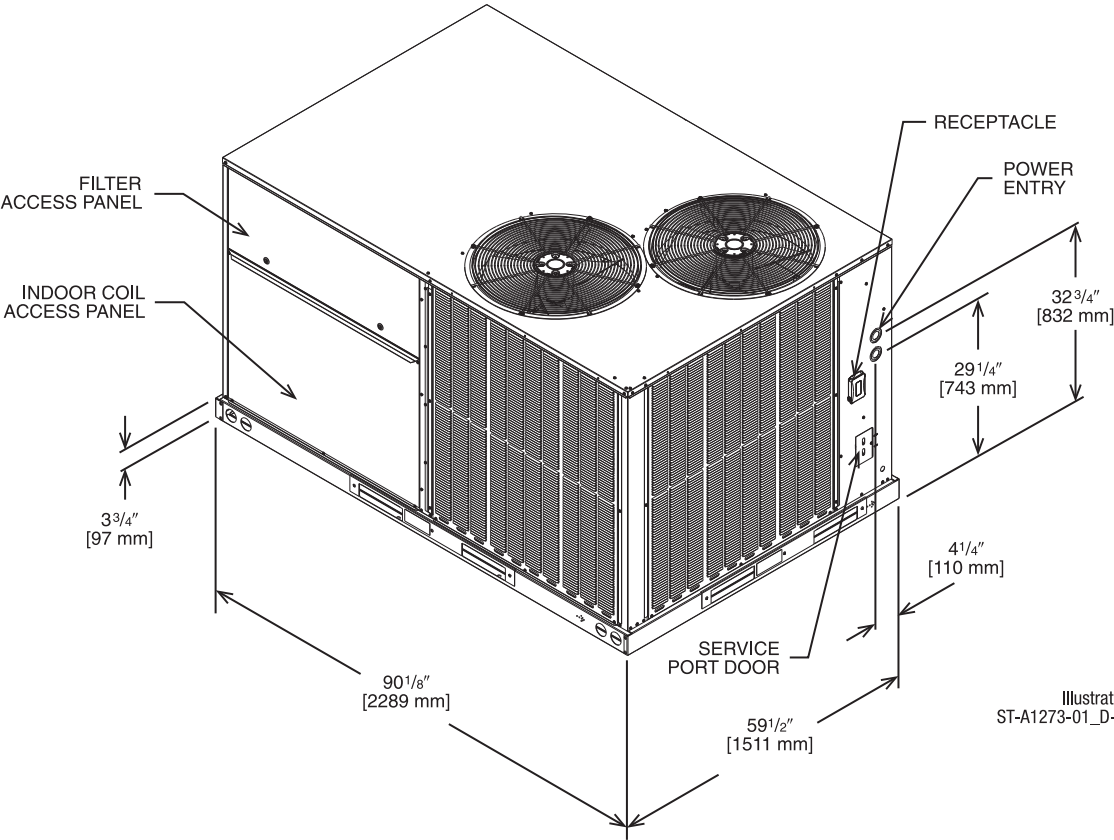


Illustration
ST-A1273-01_D-00

[] Designates Metric Conversions

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

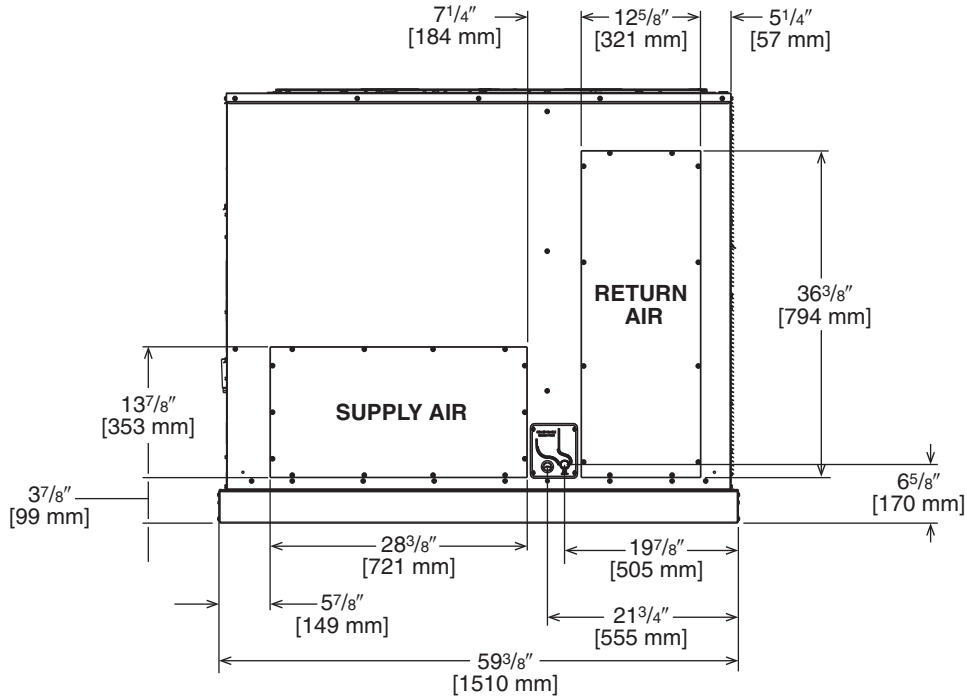
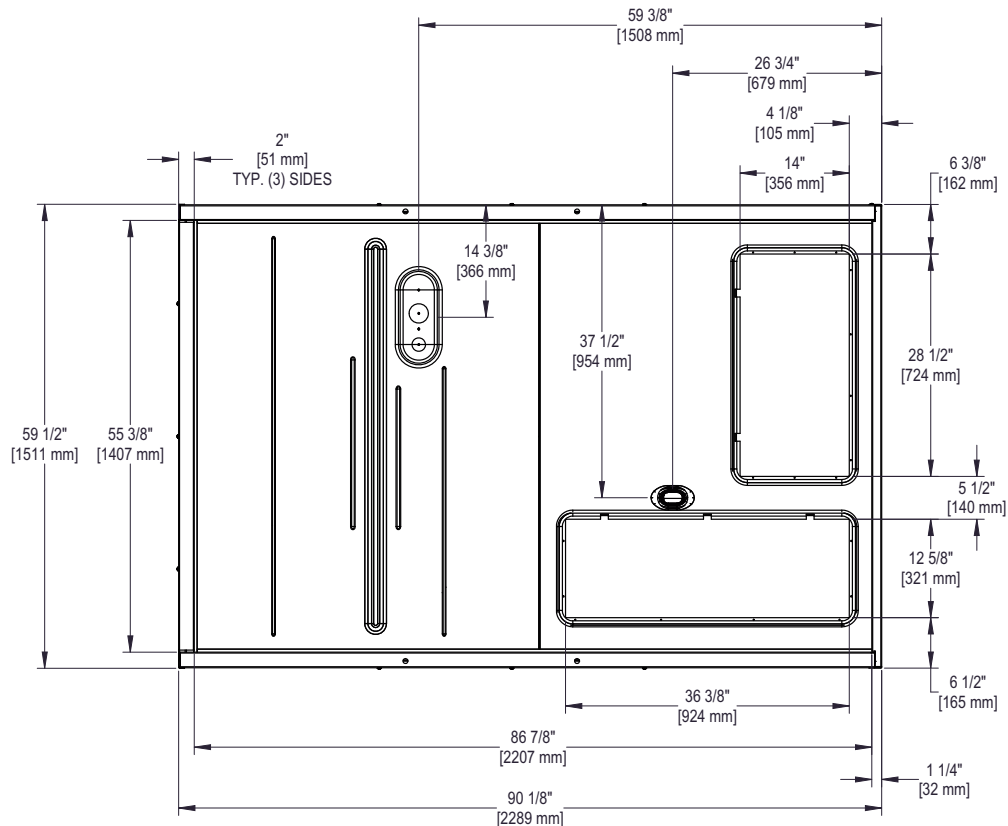


Illustration
00-71-3721A-TS

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS (VIEW FROM BOTTOM UP)



ST-A1273-01_A

[] Designates Metric Conversions

WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-10 [21.1-35.2]	26%	34%	17%	23%

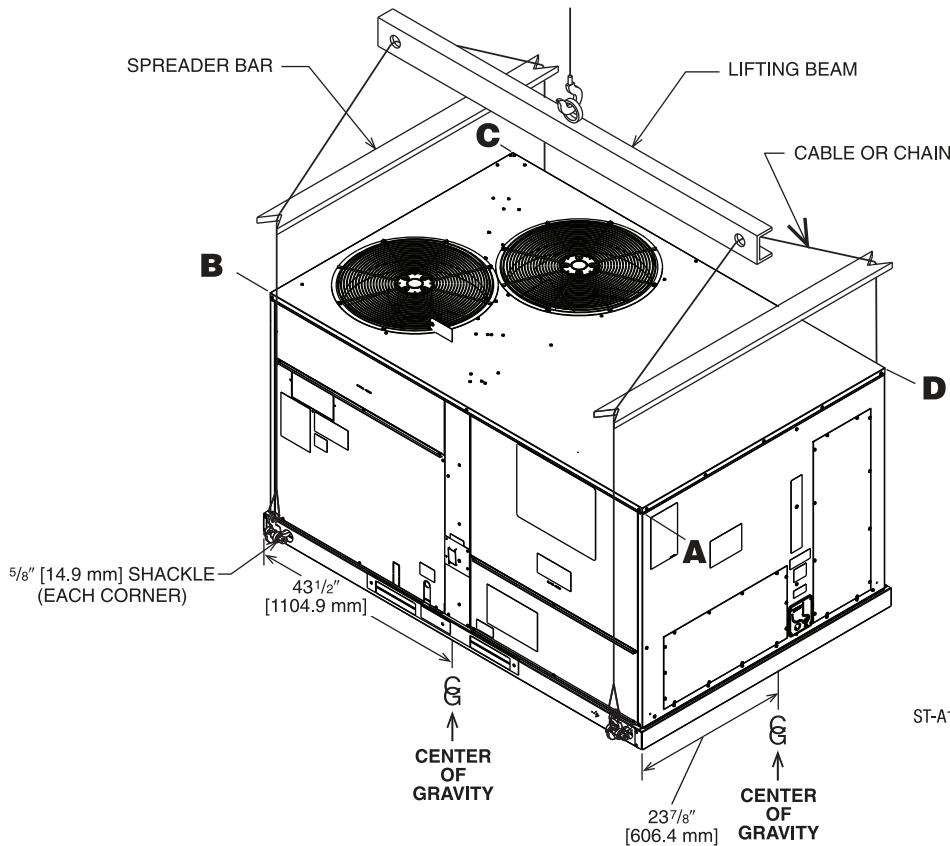


Illustration
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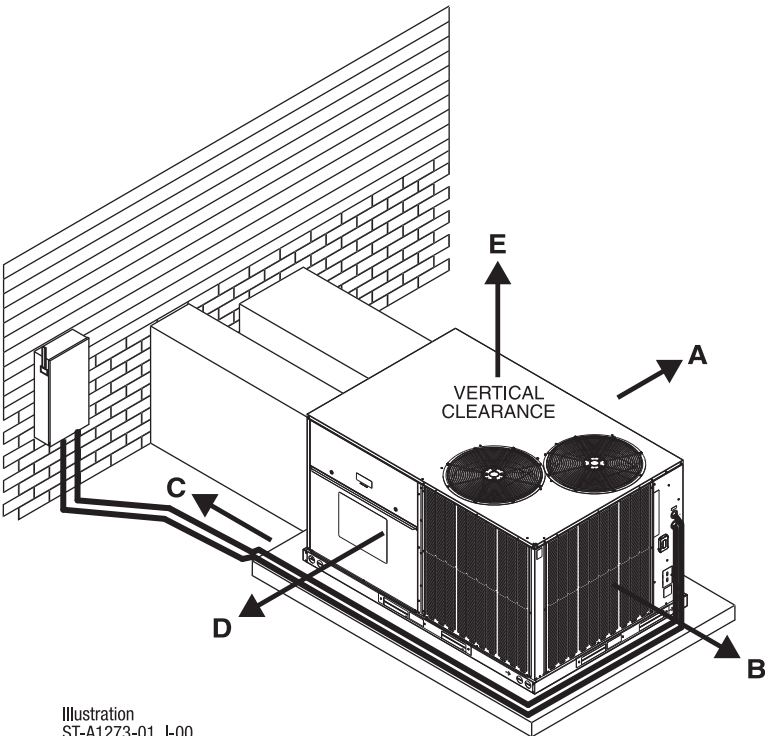


Illustration
ST-A1273-01_I-00

CLEARANCES

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

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

- ① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.
- ② 48" [1219 mm] MINIMUM IF ECONOMIZER IS INSTALLED.

FIELD-INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Economizers				
Non-DDC Economizer with No Controls (Downflow) <i>MicroMetl Economizer, Belimo Actuator</i>	RXRD-31MDDAM3	86 [39.0]	57 [25.9]	No
Non-DDC Economizer with Single Enthalpy (Downflow) <i>MicroMetl Economizer with Siemens Controls</i>	RXRD-11MDDAM3	86 [39.0]	57 [25.9]	Yes
Non-DDC Economizer with Single Enthalpy (Downflow) <i>RRS Economizer with Siemens Controller</i>	RXRD-51MDDAM3	86 [39.0]	57 [25.9]	No
Non-DDC Economizer with Single Enthalpy (Horizontal) <i>MicroMetl Economizer with Siemens Controls</i>	RXRD-11MDHAM3	84 [38.1]	55 [24.9]	No
Non-DDC Economizer with Single Enthalpy (Horizontal) <i>RRS Economizer with Siemens Controller</i>	RXRD-51MDHAM3	84 [38.1]	55 [24.9]	No
Economizer Universal DDC Interface Kit ¹	RXXR-DDC01	5 [2.7]	3.5 [1.6]	Yes

¹Does not have to be selected individually. This accessory will be included with the factory-installed economizer for a DDC unit if required.

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Power Exhaust (230V) Kit for Downflow Economizer <i>RRS</i>	RXXR-RDF01C	104 [47.2]	94 [42.6]	No
Power Exhaust (230V) Kit for Horizontal Economizer <i>RRS</i>	RXXR-RDF03C	104 [47.2]	94 [42.6]	No
Power Exhaust (230V) Kit, Convertible <i>MicroMetl</i>	RXXR-CDF01C	104 [47.2]	94 [42.6]	No
Power Exhaust (460V) Kit for Downflow Economizer <i>RRS</i>	RXXR-RDF01D	104 [47.2]	94 [42.6]	No
Power Exhaust (460V) Kit for Horizontal Economizer <i>RRS</i>	RXXR-RDF03D	104 [47.2]	94 [42.6]	No
Power Exhaust (460V) Kit, Convertible <i>MicroMetl</i>	RXXR-CDF01D	104 [47.2]	94 [42.6]	No
Power Exhaust (575V) Kit for Downflow Economizer <i>RRS</i>	RXXR-RDF01Y	104 [47.2]	94 [42.6]	No
No Power Exhaust (575V) Kit for Horizontal Economizer <i>RRS</i>	RXXR-RDF03Y	104 [47.2]	94 [42.6]	No
Concentric Adapter 7.5 & 8.5 Ton Drop	RXMC-DD01	40 [18.1]	34 [15.4]	No
Concentric Adapter 10 Ton Drop	RXMC-DD02	75 [34.0]	65 [29.5]	No
Concentric Diffuser 7.5 & 8.5 Ton Drop	RXRN-AED2000	35 [15.9]	30 [13.6]	No
Concentric Diffuser 10.0 Ton Drop	RXRN-AED3415	170 [77.1]	160 [72.6]	No
Concentric Diffuser 7.5 & 8.5 Ton Flush	RXRN-AEF2000	30 [13.6]	25 [11.3]	No
Concentric Diffuser 10.0 Ton Flush	RXRN-AEF3415	140 [113.4]	130 [59.0]	No
Convenience Outlet, Non-Powered	RXXR-BN01	2 [1.0]	1.5 [0.7]	Yes

FIELD-INSTALLED ACCESSORY EQUIPMENT (CONTINUED)

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Electric Heater Kit 208/230V, 3ph, 10kW	RXJJ-DD10CP	30 [13.6]	27.5 [12.5]	Yes
Electric Heater Kit 208/230V, 3ph, 15kW	RXJJ-DD15CP	32 [14.5]	29.5 [13.4]	Yes
Electric Heater Kit 208/230V, 3ph, 20kW	RXJJ-DD20CP	34 [15.4]	31.5 [14.3]	Yes
Electric Heater Kit 208/230V, 3ph, 30kW	RXJJ-DD30CP	37 [16.8]	34.5 [15.6]	Yes
Electric Heater Kit 208/230V, 3ph, 40kW	RXJJ-DD40CP	40 [18.1]	37.5 [17.0]	Yes
Electric Heater Kit 460V, 3ph, 10kW	RXJJ-DD10DNV	30 [13.6]	27.5 [12.5]	Yes
Electric Heater Kit 460V, 3ph, 15kW	RXJJ-DD15DNV	32 [14.5]	29.5 [13.4]	Yes
Electric Heater Kit 460V, 3ph, 20kW	RXJJ-DD20DNV	34 [15.4]	31.5 [14.3]	Yes
Electric Heater Kit 460V, 3ph, 30kW	RXJJ-DD30DNV	37 [16.8]	34.5 [15.6]	Yes
Electric Heater Kit 460V, 3ph, 40kW	RXJJ-DD40DNV	40 [18.1]	37.5 [17.0]	Yes
Electric Heater Kit 575V, 3ph, 10kW	RXJJ-DD10Y	30 [13.6]	27.5 [12.5]	No
Electric Heater Kit 575V, 3ph, 15kW	RXJJ-DD15Y	32 [14.5]	29.5 [13.4]	No
Electric Heater Kit 575V, 3ph, 20kW	RXJJ-DD20Y	34 [15.4]	31.5 [14.3]	No
Electric Heater Kit 575V, 3ph, 30kW	RXJJ-DD30Y	37 [16.8]	34.5 [15.6]	No
Electric Heater Kit 575V, 3ph, 40kW	RXJJ-DD40Y	40 [18.1]	37.5 [17.0]	No
Fresh Air Damper, Manual	RXRF-ADA1	15 [6.8]	12 [5.4]	No
Fresh Air Damper, Motorized	RXRF-ADB1	38 [17.2]	31 [14.06]	No
MERV 8 Filter 7.5 & 8.5 Ton	RXMF-M08A22020	2 [0.9]	1 [0.45]	No
MERV 8 Filter 10 Ton	RXMF-M08A22520	2 [0.9]	1 [0.45]	No
MERV 13 Filter 7.5 & 8.5 Ton	RXMF-M13A22020	2 [0.9]	1 [0.45]	No
MERV 13 Filter 10 Ton	RXMF-M13A22520	2 [0.9]	1 [0.45]	No
Outdoor Coil Louver Kit - 7.5 & 8.5 Ton	RXRX-ADD04A	52 [23.6]	47 [21.3]	Yes
Outdoor Coil Louver Kit - 10 Ton	RXRX-ADD04B	43 [19.5]	39 [17.7]	Yes
Roofcurb Adapter	RXRX-DDCAE	235 [106.6]	215 [97.5]	No
Roofcurb, 14"	RXKG-DDD14	109 [49.4]	104 [47.2]	No
Roofcurb, 24"	RXKG-DDD24	145 [65.8]	140 [63.5]	No
Single Point Wiring Kit 208/230V, 60A, 7.5 Ton	RXJX-AC0605	23 [10.4]	25 [11.3]	No
Single Point Wiring Kit 208/230V, 80A, 7.5 Ton	RXJX-AC0805	24 [10.9]	26 [11.8]	No
Single Point Wiring Kit 208/230V, 90A, 8.5 & 10 Ton	RXJX-AC0909	26 [11.8]	28 [12.7]	No
Single Point Wiring Kit 460V, 40A, 7.5 Ton	RXJX-AD0405	25 [11.3]	27 [12.2]	No
Single Point Wiring Kit 460V, 40A, 8.5 & 10 Ton	RXJX-AD0409	25 [11.3]	27 [12.2]	No
Single Point Wiring Kit 460V, 60A, 7.5 Ton	RXJX-AD0605	25 [11.3]	27 [12.2]	No
Single Point Wiring Kit 460V, 60A, 8.5 & 10 Ton	RXJX-AD0609	25 [11.3]	27 [12.2]	No
Unfused Service Disconnect	RXRX-BP01	10 [4.5]	9 [4.1]	Yes
UV-C Light Kit 208/230V	RXRX-UVC34D	8 [3.6]	6 [2.7]	No
UV-C Light Kit Transformer 460V & 575V	RXRX-UVCTD	12 [5.4]	11 [5.0]	No
Comfort Alert (1 Per Compressor) 3ph, DDC	RXRX-AZ01	3 [1.5]	2 [0.9]	Yes
Comfort Alert (1 Per Compressor) 3ph, Non-DDC	RXRX-AZ02	3 [1.5]	2 [0.9]	Yes
Communication Card, BACnet	RXRX-AY01	1 [0.5]	1 [0.5]	No
Communication Card, LonWorks	RXRX-AY02	1 [0.5]	1 [0.5]	No
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)	PD555460	1 [0.5]	1 [0.5]	No
Freeze Stat Kit	RXRX-AM01	2 [1.0]	1.5 [0.7]	Yes
Low-Ambient Control Kit	RXRZ-A04	4 [1.8]	3 [1.4]	Yes
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
Smoke Detector Kit, Return	RXRX-BS03	5 [2.7]	3.5 [1.6]	No
Smoke Detector Kit, Return/Supply	RXRX-BS04	7 [3.2]	5 [2.7]	No

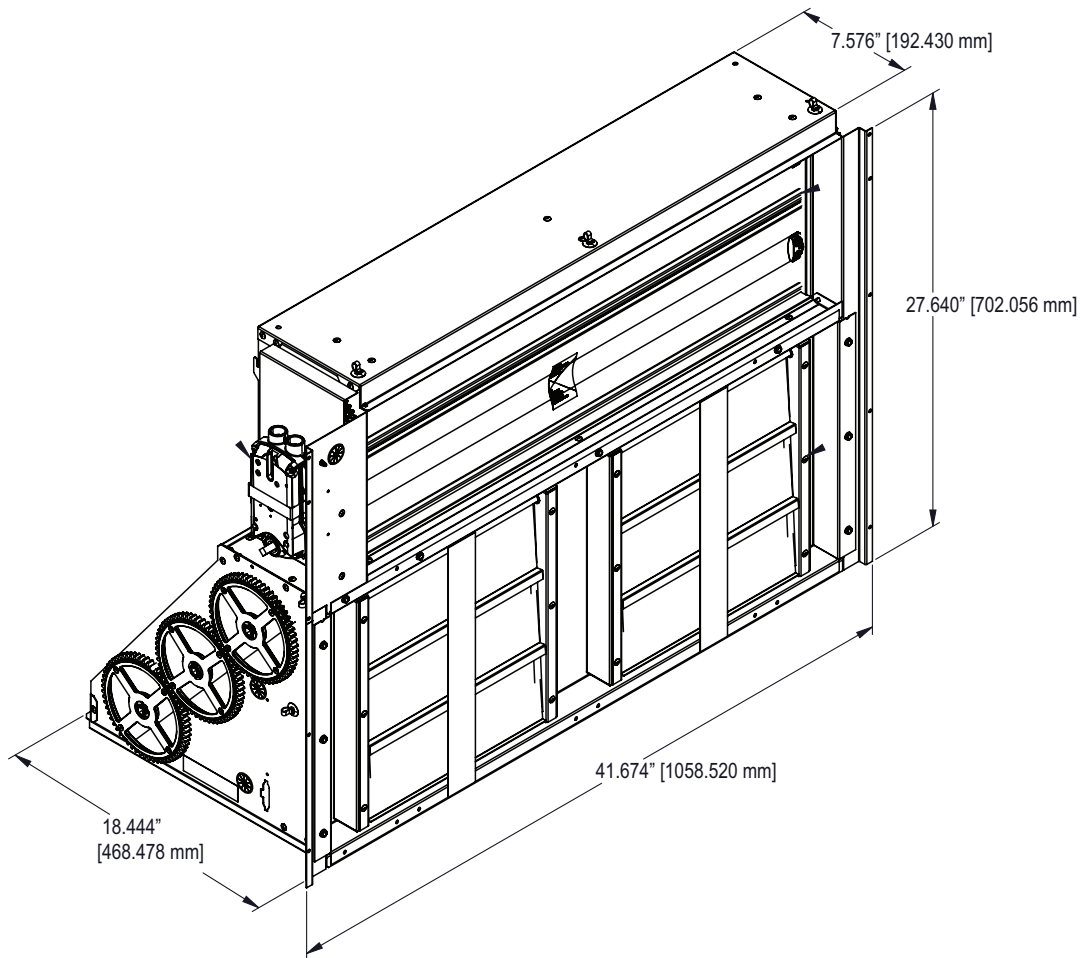
[] Designates Metric Conversions

NON-DDC ECONOMIZER WITH NO CONTROLS (DOWNFLOW) MICROMETL ECONOMIZER, BELIMO ACTUATOR Field-Installed Only

RXRD-31MDDAM3

RXRX-ACD01 — Wire Harness for Non-DDC Generic Economizers

- 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
- Controller and Sensors to be determined by Customer
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option



[] Designates Metric Conversions

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) MICROMETL ECONOMIZER WITH SIEMENS CONTROLS

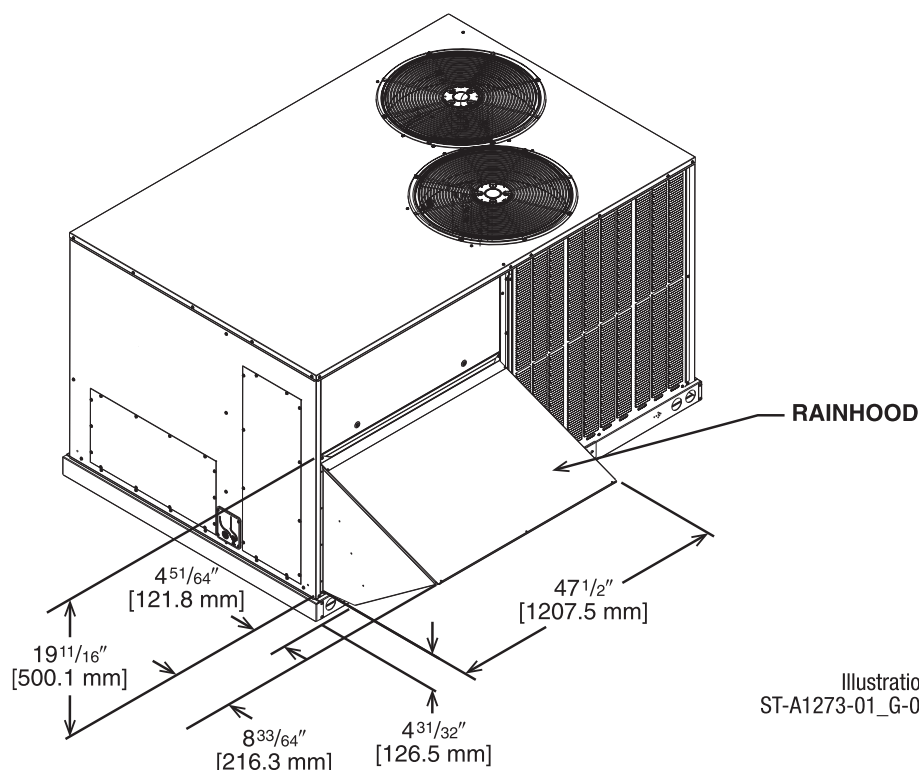
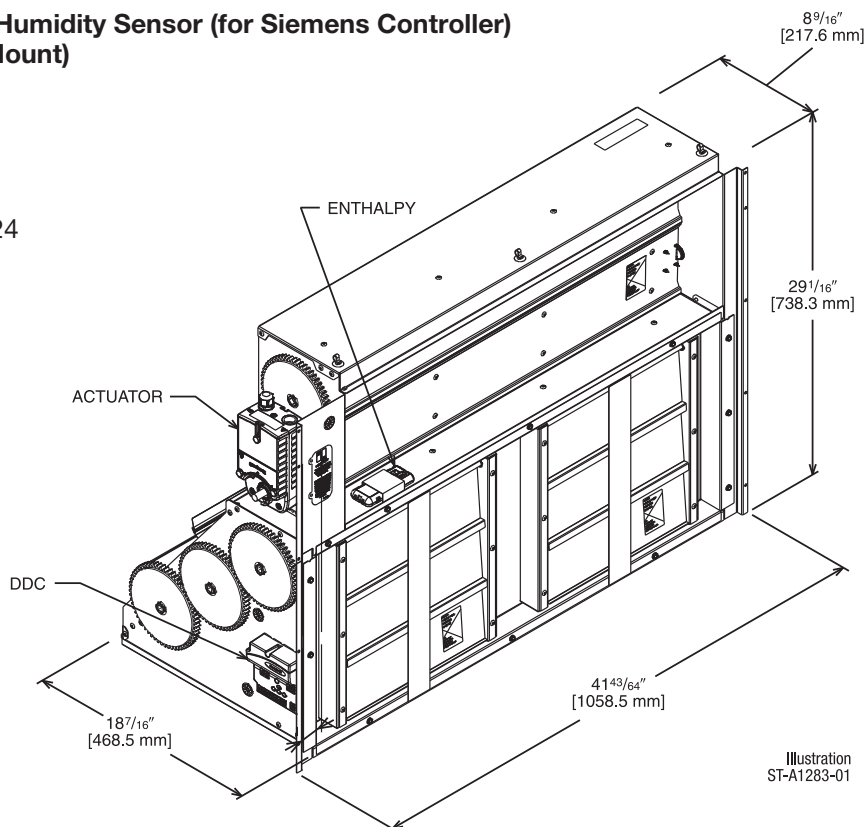
Factory or Field-Installed

RXRD-11MDDAM3

PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)

RXXR-AR02—Sensor, Carbon Dioxide (Wall Mount)

- Features **Siemens** 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 Option
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option
- 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

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) RRS ECONOMIZER WITH SIEMENS CONTROLLER

Field-Installed Only

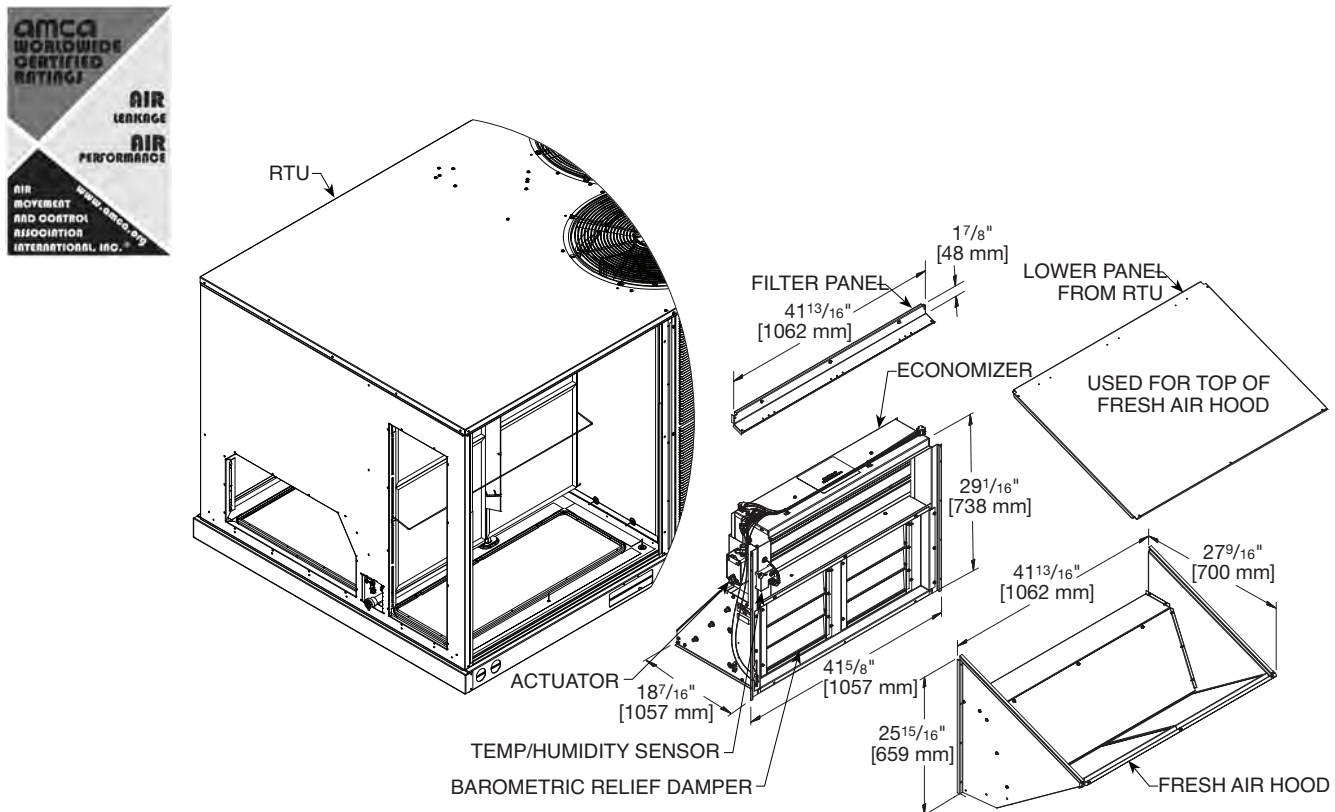
RXRD-51MDDAM3

PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)

RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

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. Parallel action.
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. Controls feature the Siemens controller with Siemens 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 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01).



[] Designates Metric Conversions

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL) MICROMETL ECONOMIZER WITH SIEMENS CONTROLS

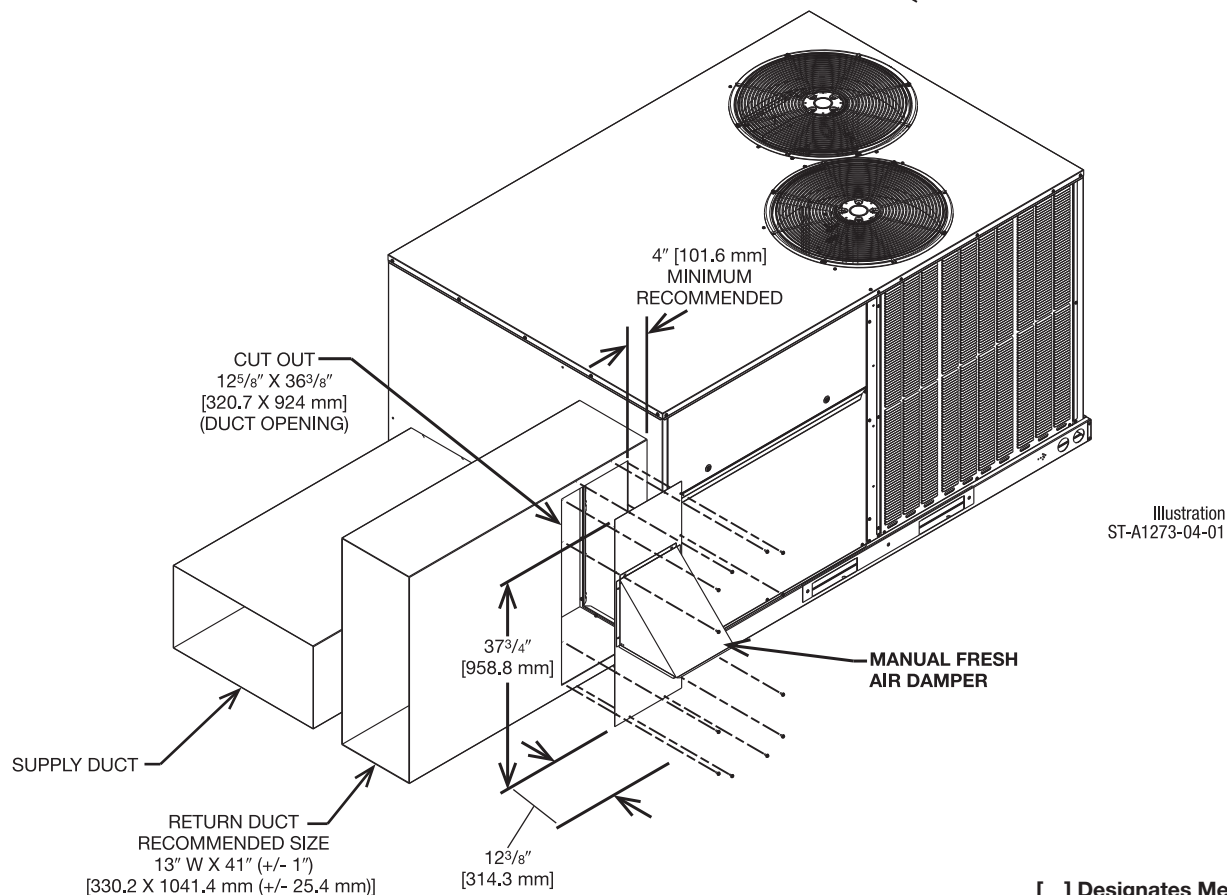
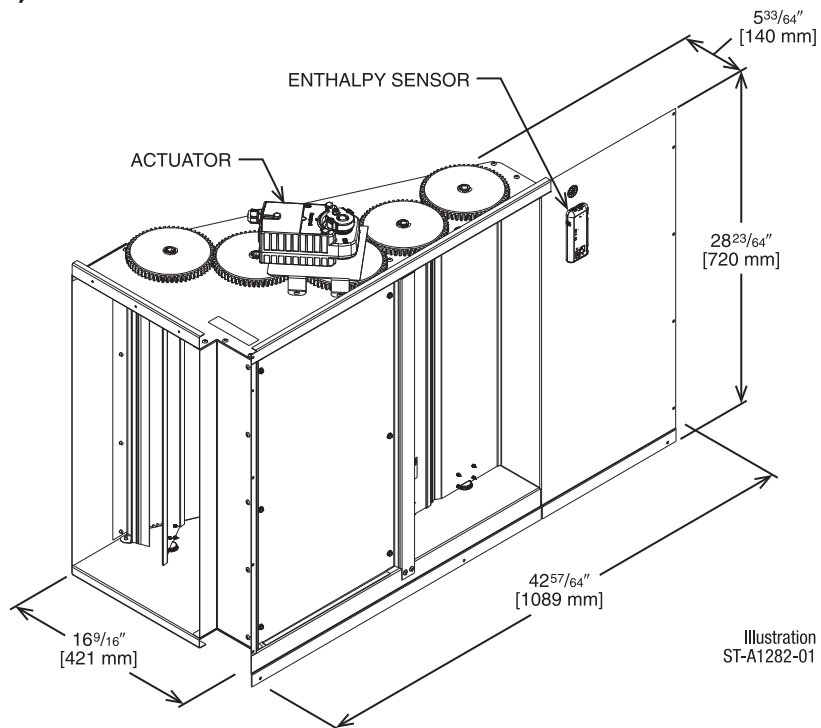
Field-Installed Only

RXRD-11MDHAM3

PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)

RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

- Features **Siemens** Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Option
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field-Installed Power Exhaust Option
- 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
- Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01)



[] Designates Metric Conversions

NON-DDC ECONOMIZER W/SINGLE ENTHALPY (HORIZONTAL) RRS ECONOMIZER WITH SIEMENS CONTROLLER Field-Installed Only

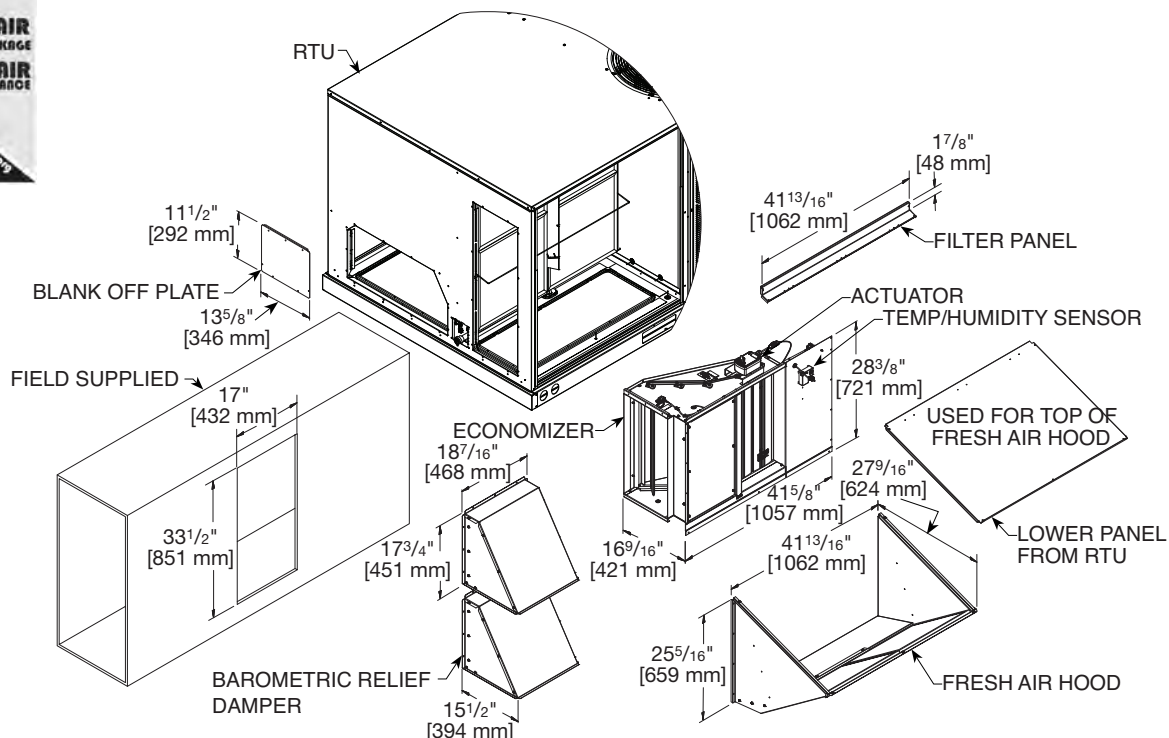
RXRD-51MDHAM3

PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)

RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

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. Parallel action.
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. Controls feature the Siemens controller with Siemens 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 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01).



[] Designates Metric Conversions

ECONOMIZER UNIVERSAL DDC INTERFACE KIT

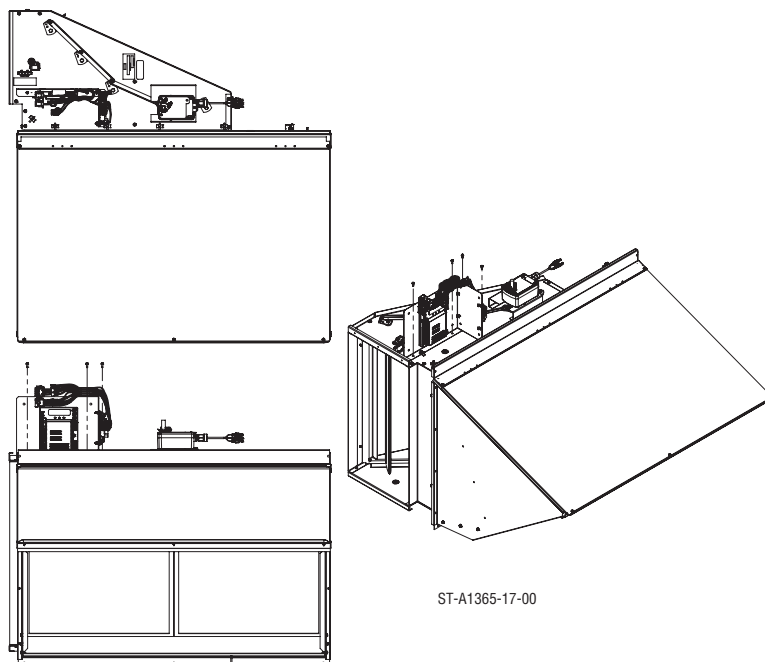
Available Factory or Field-Installed

RXRX-DDC01

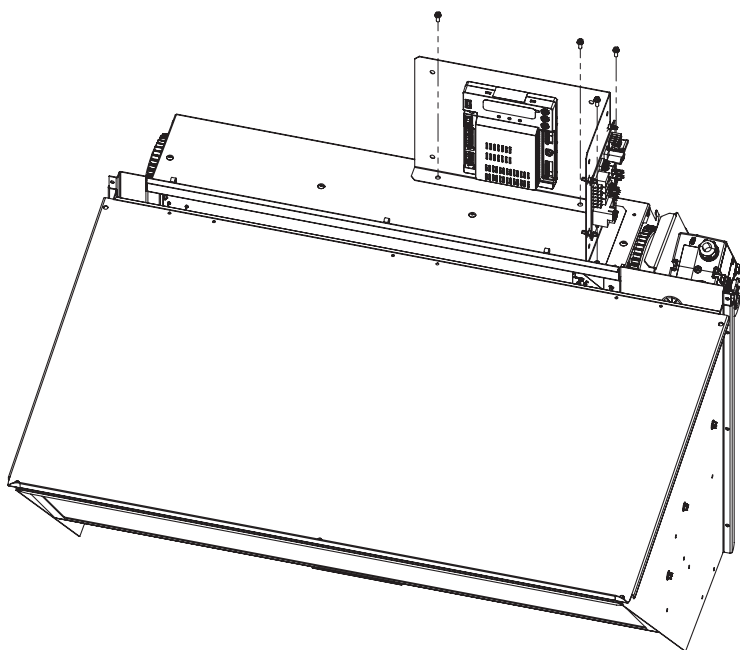
- Allows any Non-DDC Economizer to be used with a ClearControl DDC model
- Mounts on the Economizer
- Provides Mounting location for Economizer Controller
- Provides wire management for excess wire

NOTE: Older DDC Models, prior to R-454B refrigerant models, may require a field update to the ClearControl software. The minimum version required is 3.15. Models using R-454B refrigerant will come with software version 4.0 or higher.

HORIZONTAL FLOW DDC BRACKET SETUP



DOWNFLOW ECONOMIZER DDC BRACKET SETUP



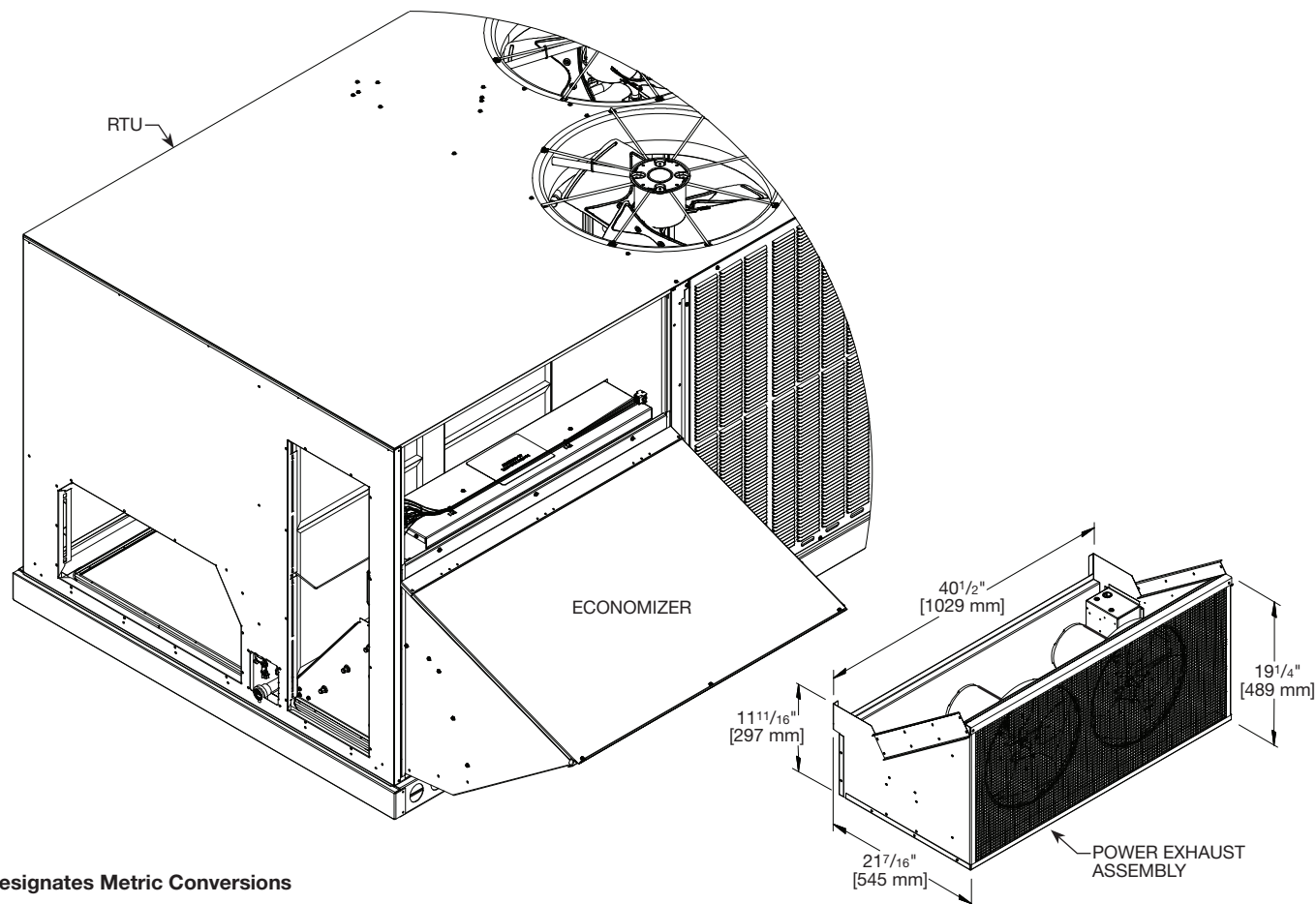
ST-A1365-13-01

POWER EXHAUST KIT FOR DOWNFLOW ECONOMIZER

RXXR-RDF01*

*Voltage Code: C, D or Y

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Color coordinated with the unit
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- When using this power exhaust system, clearance between the bottom of the unit and finished roof deck should be a minimum of 10 inches. Some applications may require a taller roof curb for proper installation
- **Economizer Sold Separately**



[] Designates Metric Conversions

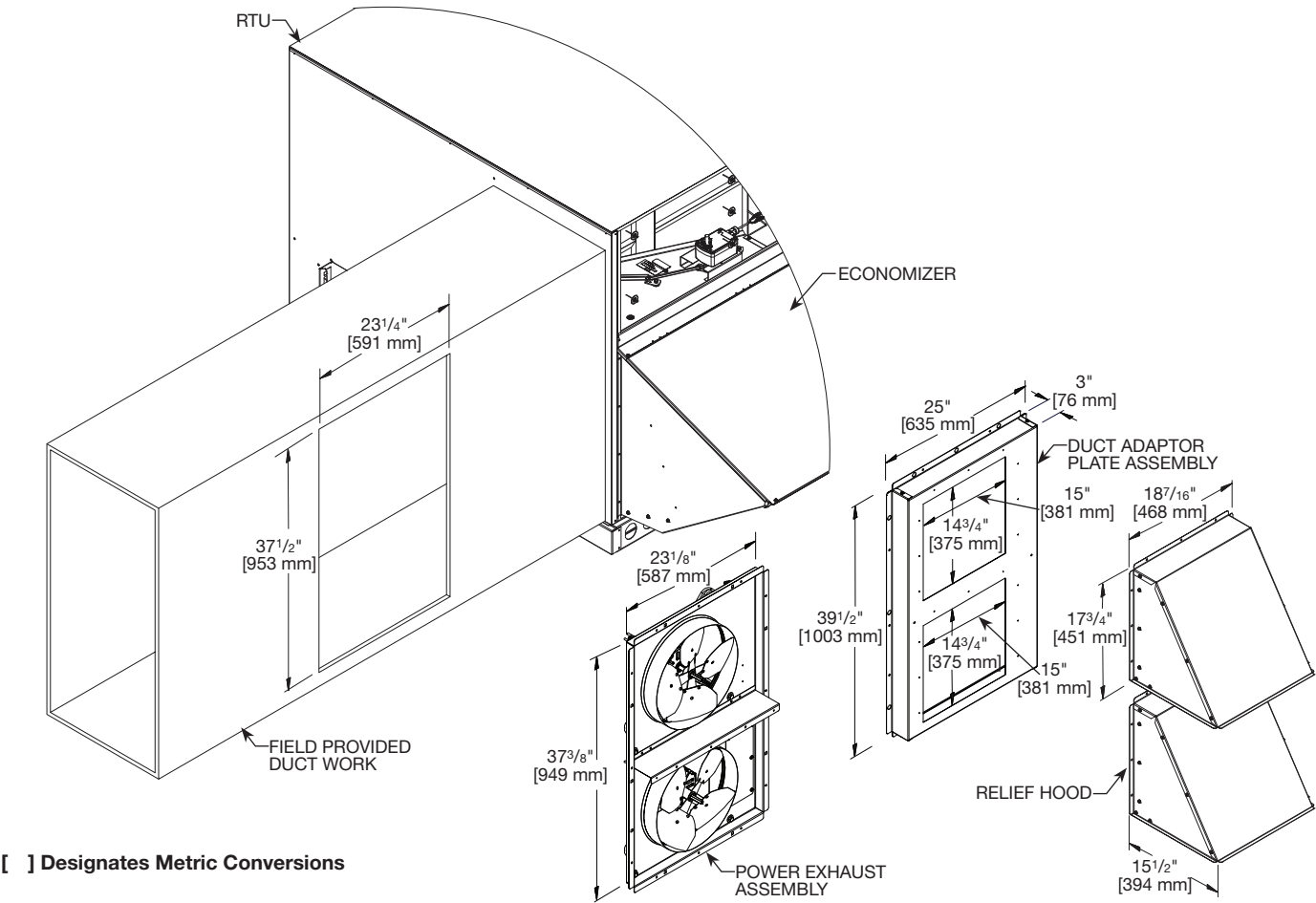
MODEL NO.	VOLT	PHASE	MOTOR				UNIT				@ 0.1 CFM
			HP	RPM	LRA	QTY.	CIR. QTY.	FLA	MCA	FUSE SIZE	
RXXR-RDF01C	208/230	1	1/2	1625	5.86	2	1	5.40	6.75	8	4013
RXXR-RDF01D	460				3.33			2.68	3.35	4	
RXXR-RDF01Y	575				2.52			2.12	2.65	3	

POWER EXHAUST KIT FOR HORIZONTAL ECONOMIZER

RXXR-RDF03*

*Voltage Code: C, D or Y

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Color coordinated with the unit
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- When using this power exhaust system, clearance between the bottom of the unit and finished roof deck should be a minimum of 10 inches. Some applications may require a taller roof curb for proper installation
- Economizer with Relief Hood Sold Separately



MODEL NO.	VOLT	PHASE	MOTOR				UNIT				@ 0.1 CFM
			HP	RPM	LRA	QTY.	CIR. QTY.	FLA	MCA	FUSE SIZE	
RXXR-RDF03C	208/230	1	1/2	1625	5.86	2	1	2.70	3.38	6	2013
RXXR-RDF03D	460				3.33			1.34	1.68	3	
RXXR-RDF03Y	575				2.52			1.06	1.33	2	

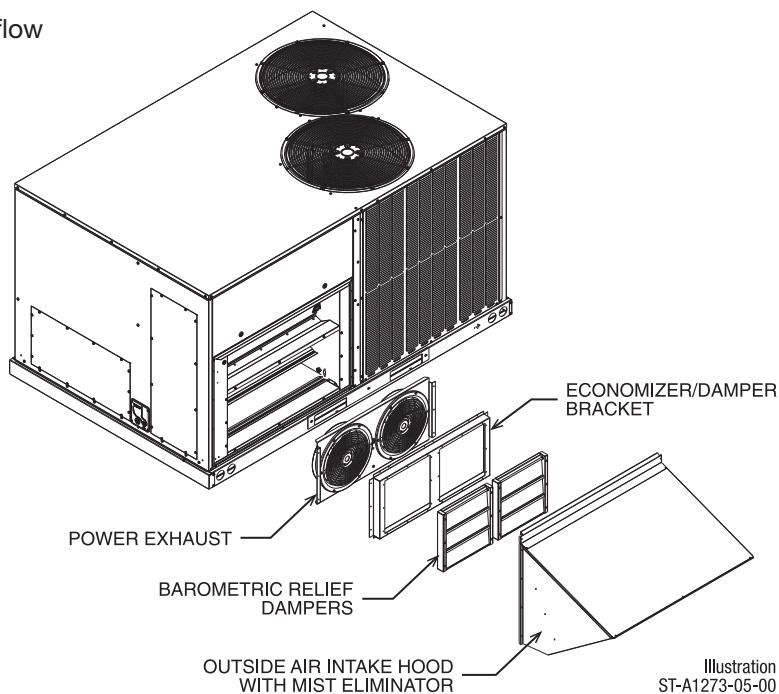
POWER EXHAUST KIT, CONVERTIBLE

RXXRX-CDF01*

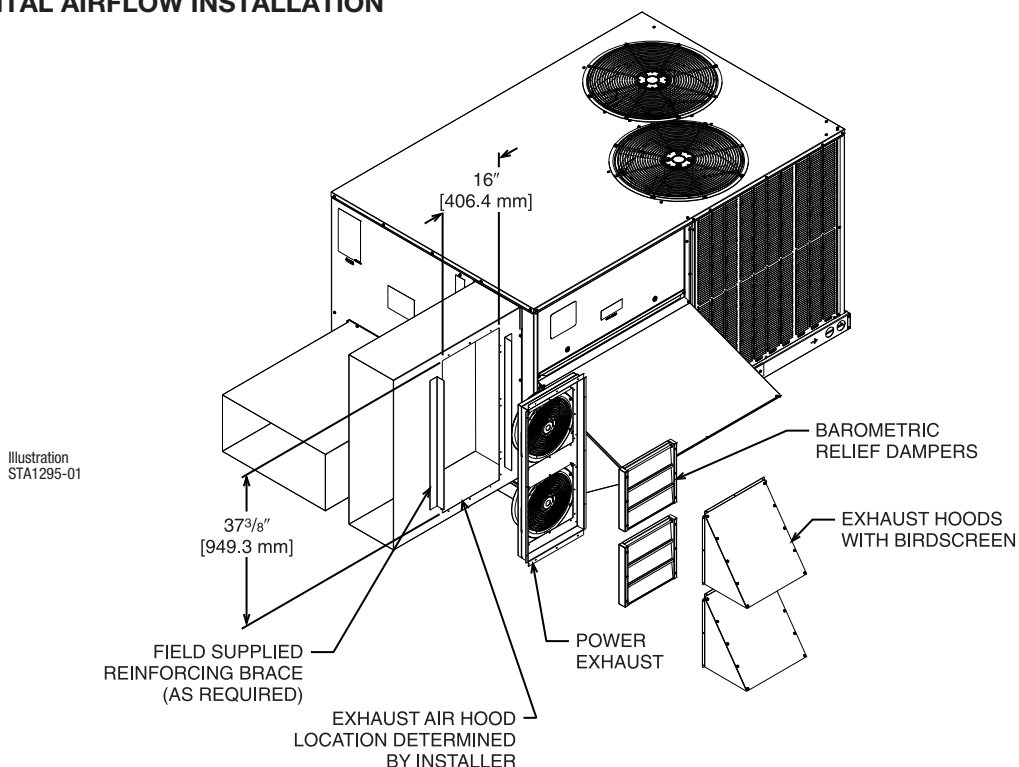
*Voltage Code: C or D

- Convertible between vertical airflow and horizontal airflow
- Compatible with all D-cabinet economizers
- Economizer sold separately

VERTICAL AIRFLOW INSTALLATION



HORIZONTAL AIRFLOW INSTALLATION

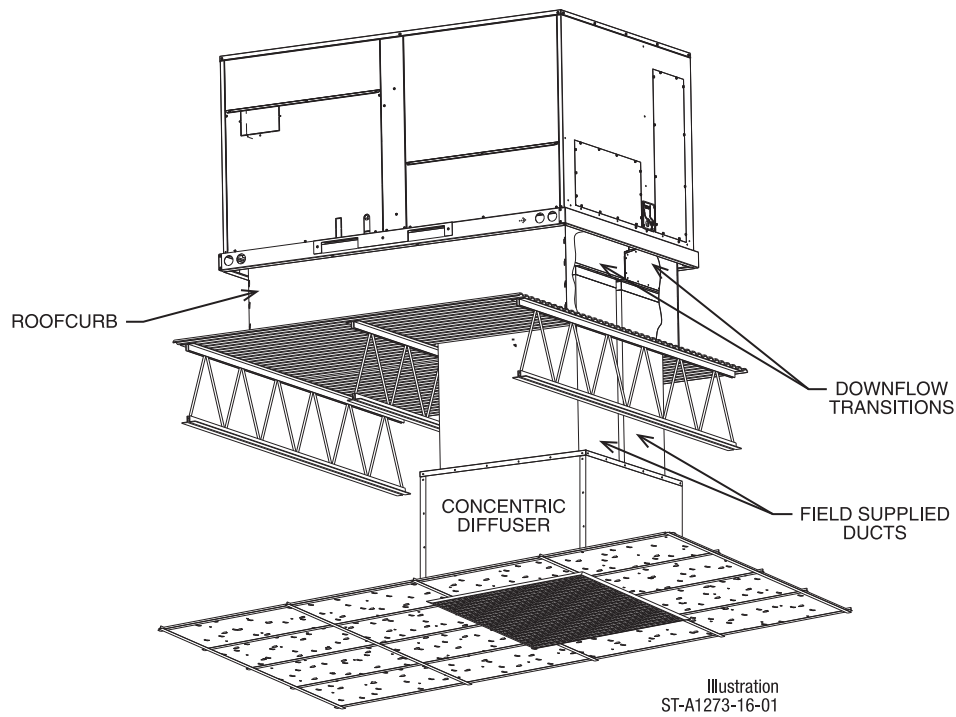


MODEL NO.	NO. OF FANS	VOLTS	PHASE	HP (ea.)	CFM [L/s]*	RPM	FLA (ea.)	LRA (ea.)
RXXRX-CDF01C	2	208-230	1	0.47	2200	3000	1.55	1.1
RXXRX-CDF01D	2	460	3	0.40	1970	2750	0.51	1.9

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

[] Designates Metric Conversions

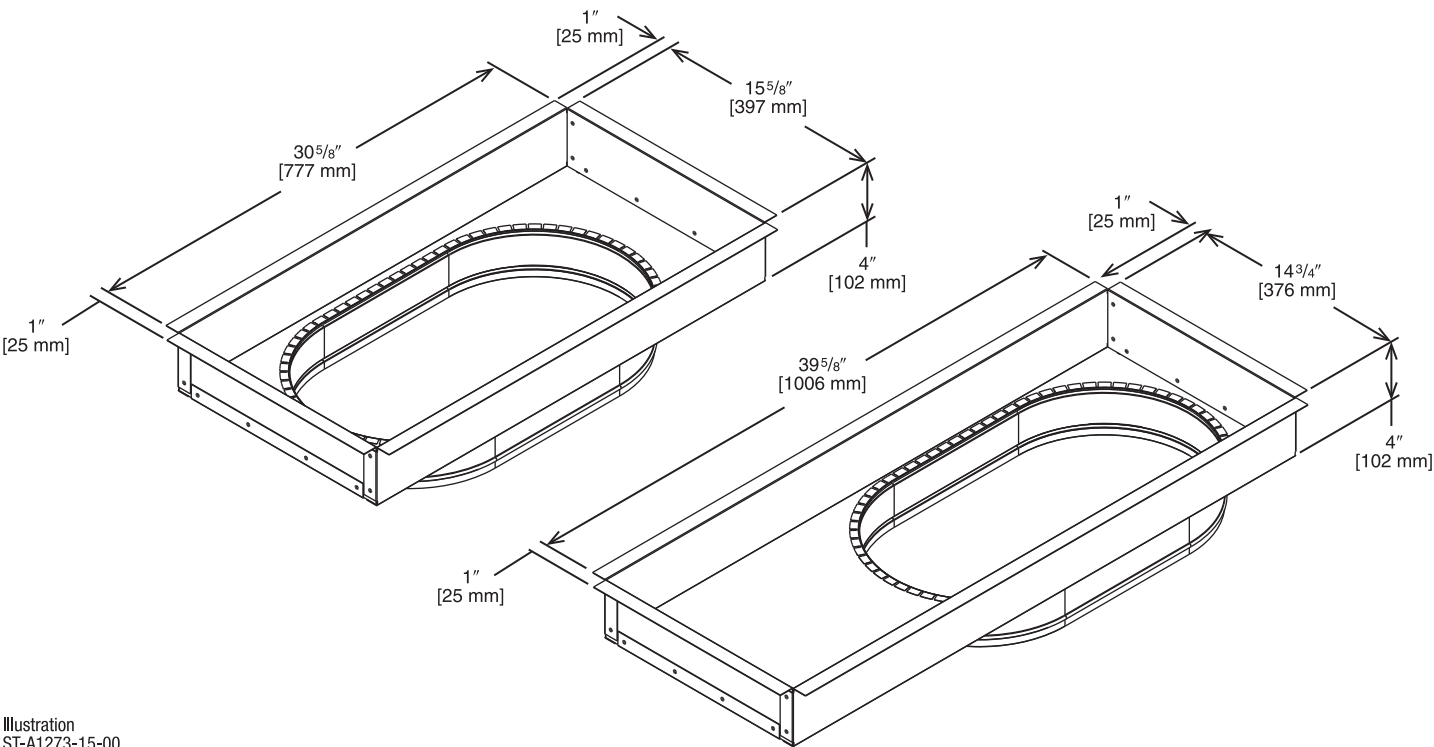
CONCENTRIC DIFFUSER APPLICATION



DOWNFLOW TRANSITION DRAWINGS

RXMC-DD01 – Concentric Adapter 7.5 / 8.5 Ton Drop

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



[] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS

RXMC-DD02—Concentric Adapter 10 Ton Drop

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

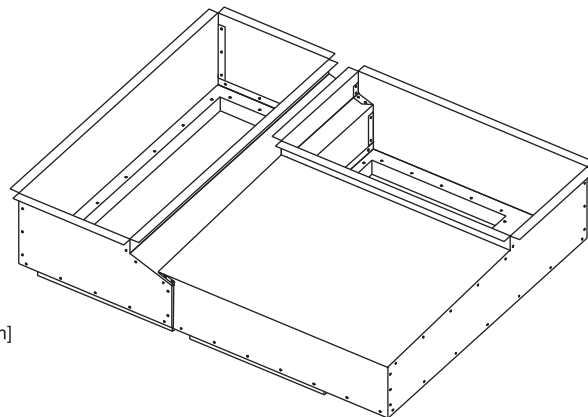
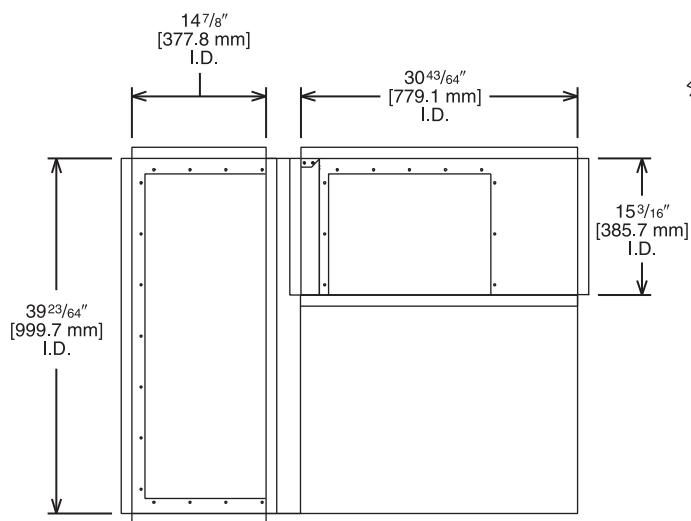
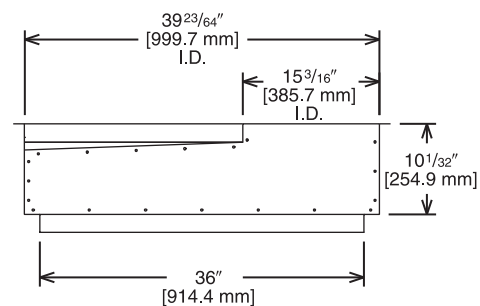
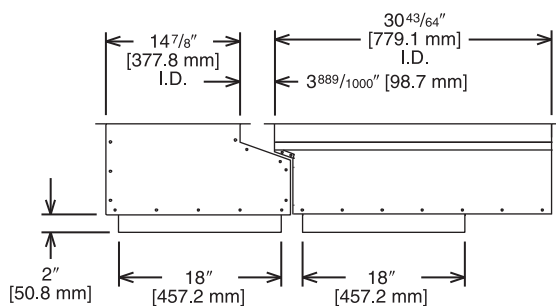


Illustration
ADS-106193-03

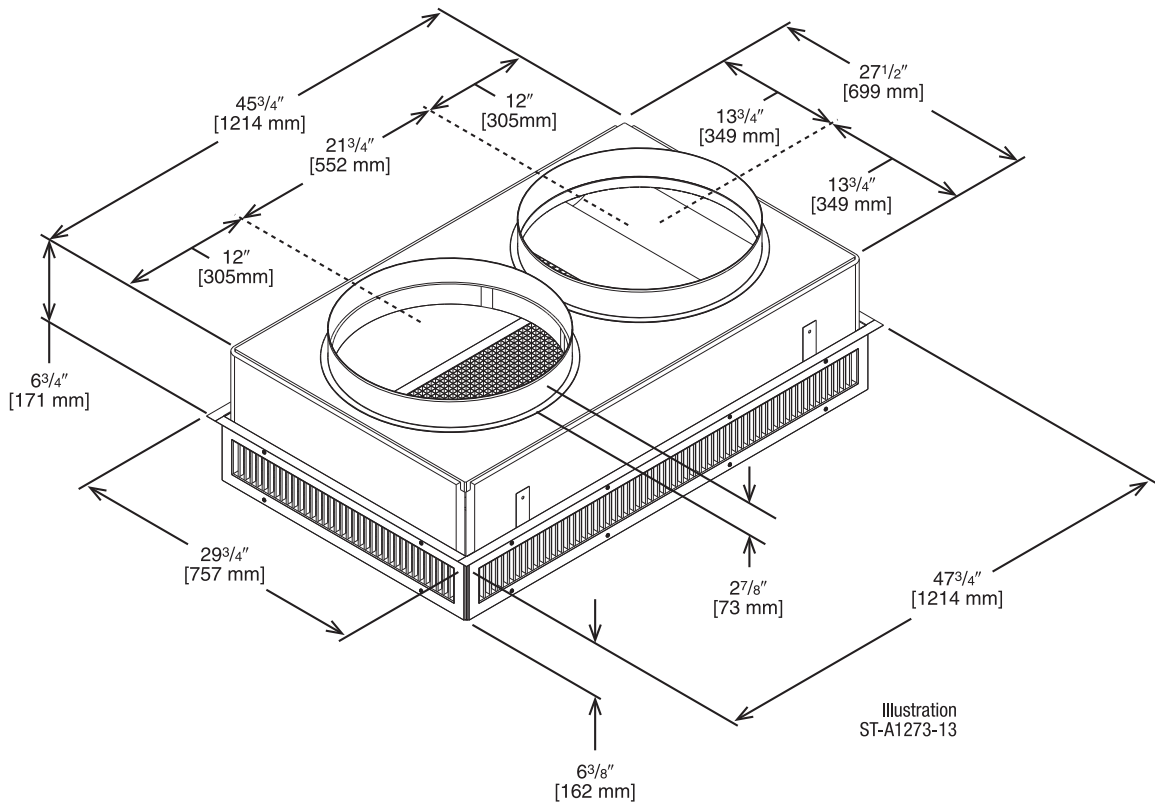


CONCENTRIC DIFFUSER 7.5 / 8.5 TON DROP

RXRN-AED2000

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

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



ENGINEERING DATA^①

MODEL NO.	FLOW RATE CFM [L/s]	THROW ^② ^③ FEET [m]	NECK VELOCITY FPM [m/s]	NOISE LEVEL ^④ (dbA)
RXRN-AED2000	2600 [1222]	22-39 [6.7-11.9]	669 [3.4]	32
	2800 [1316]	23-40 [7.1-12.2]	720 [3.7]	38
	3000 [1410]	25-42 [7.6-12.8]	772 [3.9]	40
	3200 [1504]	26-43 [7.9-13.1]	823 [4.2]	41
	3400 [1598]	27-45 [8.2-13.7]	874 [4.4]	42
	3600 [1692]	30-50 [9.1-15.2]	925.5 [4.7]	45
	3800 [1786]	32-53 [9.8-16.2]	976.8 [4.9]	48
	4000 [1880]	34-56 [10.4-17.1]	1028.1 [5.2]	50

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

[] Designates Metric Conversions

CONCENTRIC DIFFUSER 10.0 TON DROP

RXRN-AED3415

For Use With Downflow Transition (RXMC-DD02) and 15" x 34" 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
- Double deflection diffuser with the blades secured by spring steel

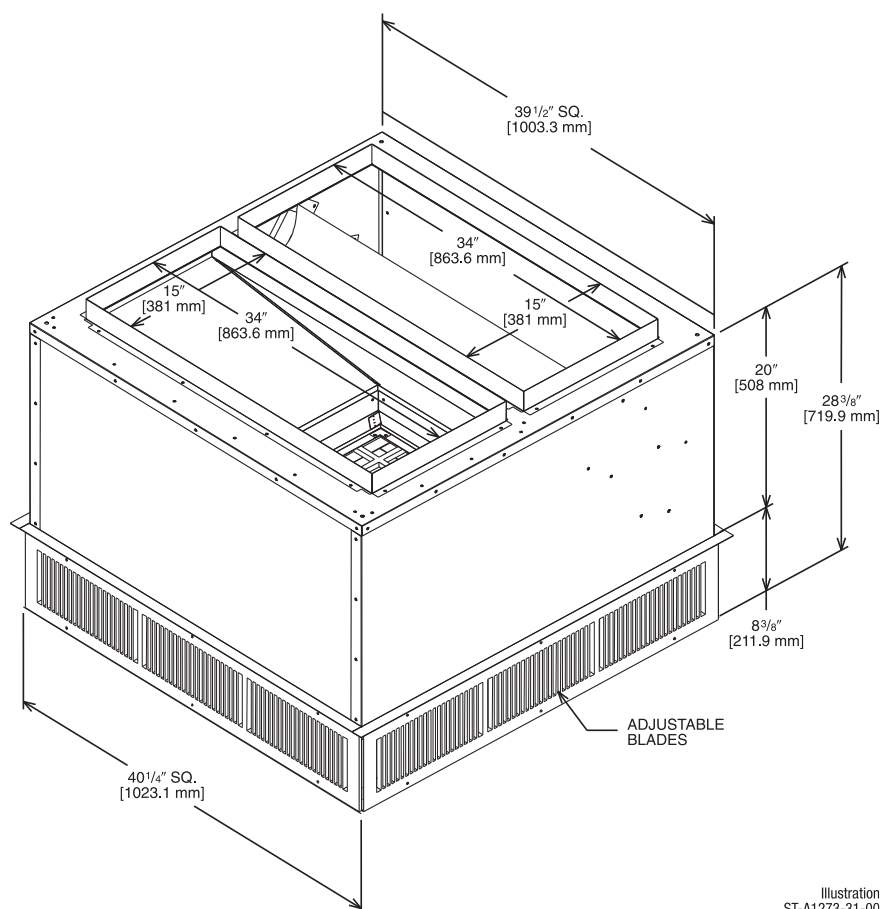


Illustration
ST-A1273-31-00

ENGINEERING DATA^①

MODEL NO.	FLOW RATE CFM [L/s]	THROW ^② ^③ FEET [m]	NECK VELOCITY FPM [m/s]	NOISE LEVEL ^④ (dba)
RXRN-AED3415	3600 [1692]	26-53 [7.9-16.2]	851 [4.3]	27
	3800 [1786]	27-55 [8.2-16.8]	898 [4.5]	29
	4000 [1880]	29-58 [8.8-17.7]	946 [4.8]	30
	4200 [1974]	31-61 [9.4-18.6]	993 [5.1]	32
	4400 [2068]	32-64 [9.8-19.5]	1040 [5.3]	33
	4600 [2162]	34-66 [10.4-20.1]	1087.5 [5.5]	35

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

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

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

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

[] Designates Metric Conversions

CONCENTRIC DIFFUSER 7.5 / 8.5 TON FLUSH

RXRN-AEF2000

For Use With Downflow Transition (RXMC-DD01) 20" 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

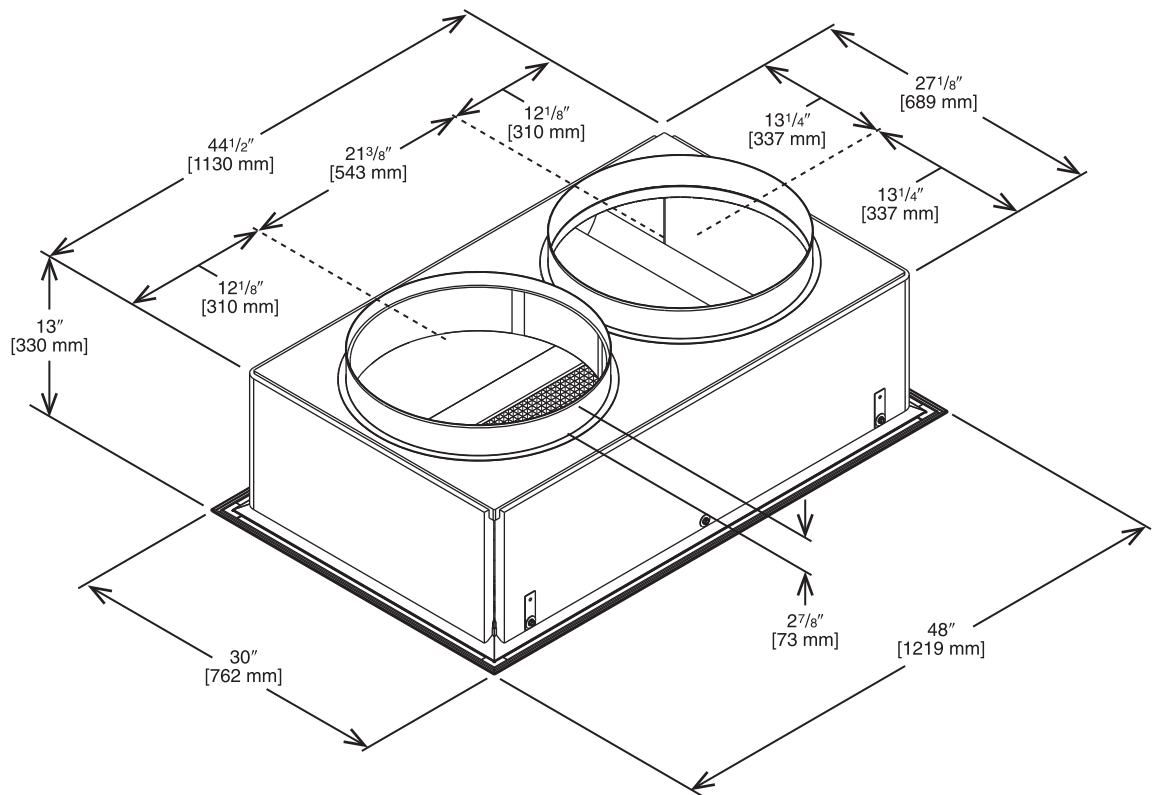


Illustration
ST-A1273-14-00

ENGINEERING DATA^①

MODEL NO.	FLOW RATE CFM [L/s]	THROW ^② ^③ FEET [m]	NECK VELOCITY FPM [m/s]	NOISE LEVEL ^④ (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
	3600 [1692]	25-38 [7.6-11.6]	918 [4.7]	43
	3800 [1786]	26-39 [7.9-11.9]	969 [4.9]	45
	4000 [1880]	27-40 [8.2-12.2]	1020 [5.2]	48

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

[] Designates Metric Conversions

CONCENTRIC DIFFUSER 10.0 TON FLUSH

RXRN-AEF3415

For Use With Downflow Transition (RXMC-DD02) 15" x 34" 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

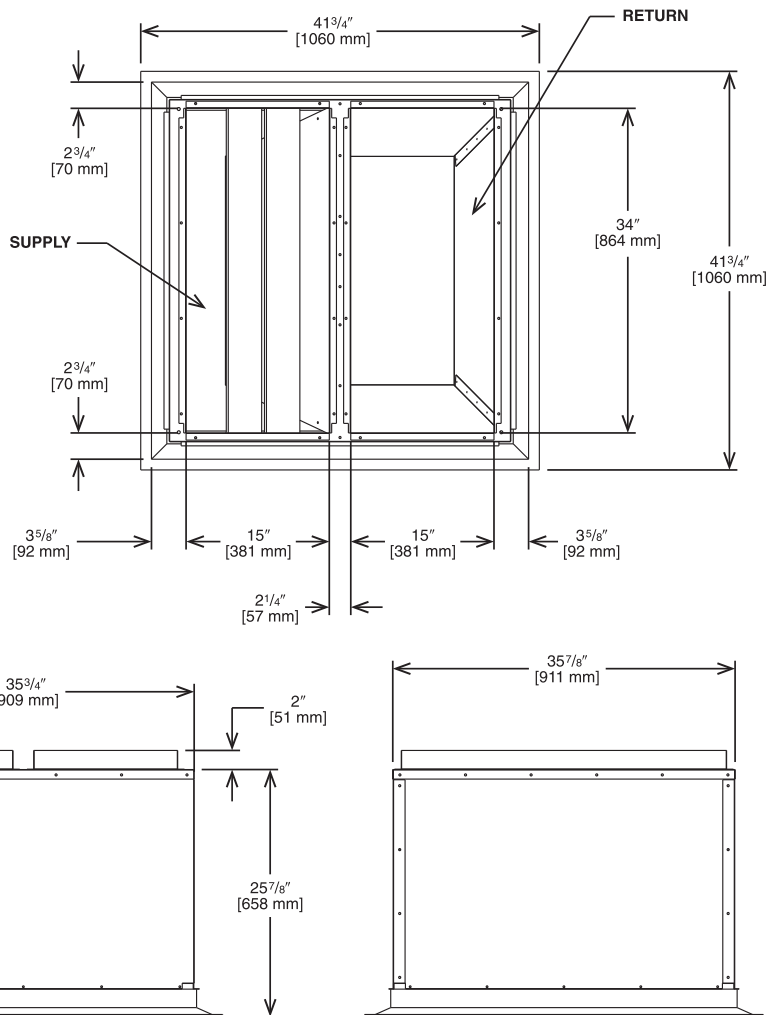


Illustration
SI-A1273-07-00

ENGINEERING DATA^①

MODEL NO.	FLOW RATE CFM [L/s]	THROW ^② ^③ FEET [m]	NECK VELOCITY FPM [m/s]	NOISE LEVEL ^④ (dba)
RXRN-AEF3415	3600 [1692]	14-34 [4.3-10.4]	844 [4.3]	27
	3800 [1786]	15-36 [4.6-11.1]	891 [4.5]	29
	4000 [1880]	16-37 [4.9-11.3]	938 [4.8]	30
	4200 [1974]	17-39 [5.2-11.9]	985 [5.1]	32
	4400 [2068]	18-41 [5.5-12.5]	1032 [5.2]	33
	4600 [2162]	19-43 [5.8-13.1]	1079 [5.5]	35
	4800 [2256]	20-45 [6.1-13.7]	1126 [5.7]	36

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

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

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

^④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.

Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

FRESH AIR DAMPER

RXRF-ADA1 – Fresh Air Damper, Manual

DOWNFLOW APPLICATION

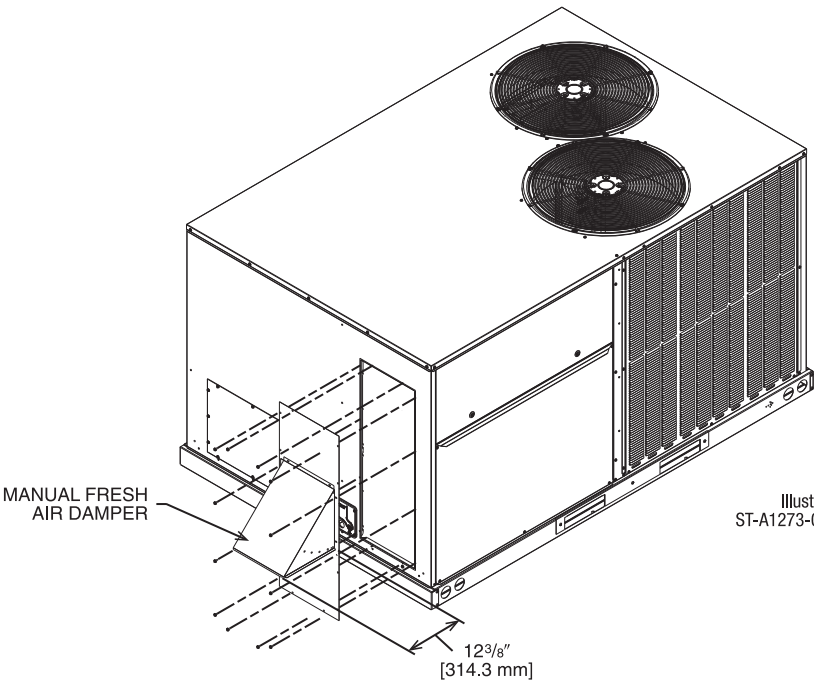


Illustration
ST-A1273-03-00

HORIZONTAL APPLICATION

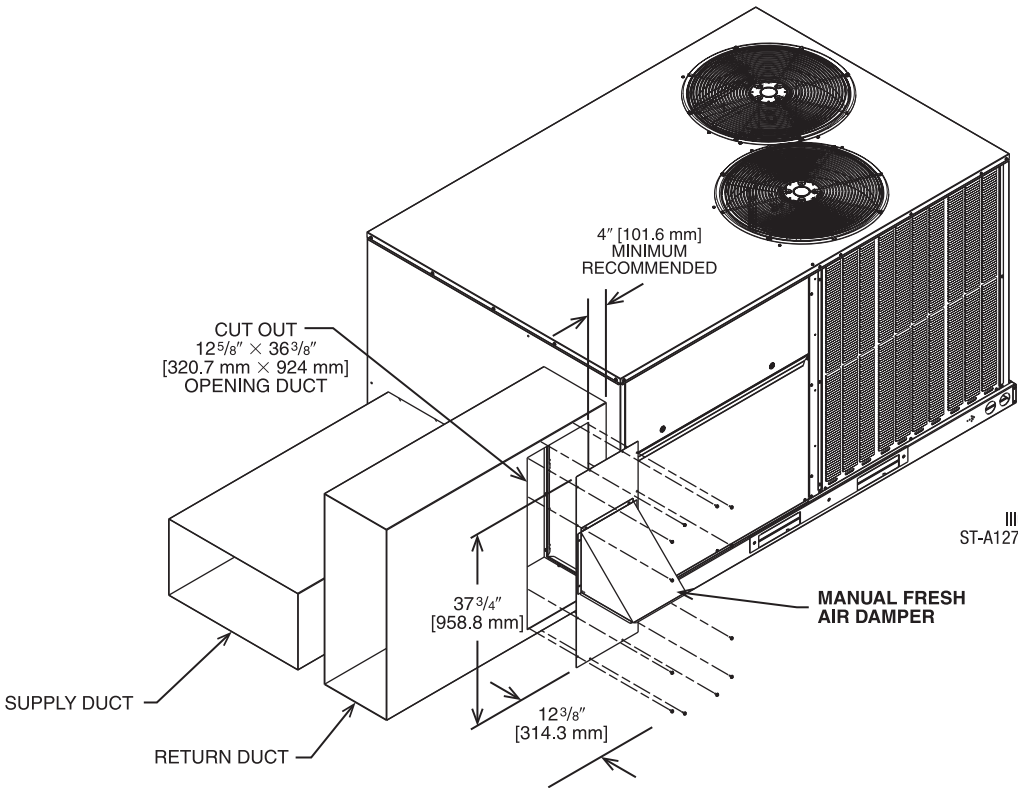


Illustration
ST-A1273-04-00

[] Designates Metric Conversions

FRESH AIR DAMPER (CONTINUED)

RXRF-ADB1 – Fresh Air Damper, Motorized

- Gear Driven Direct Drive Actuator
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin

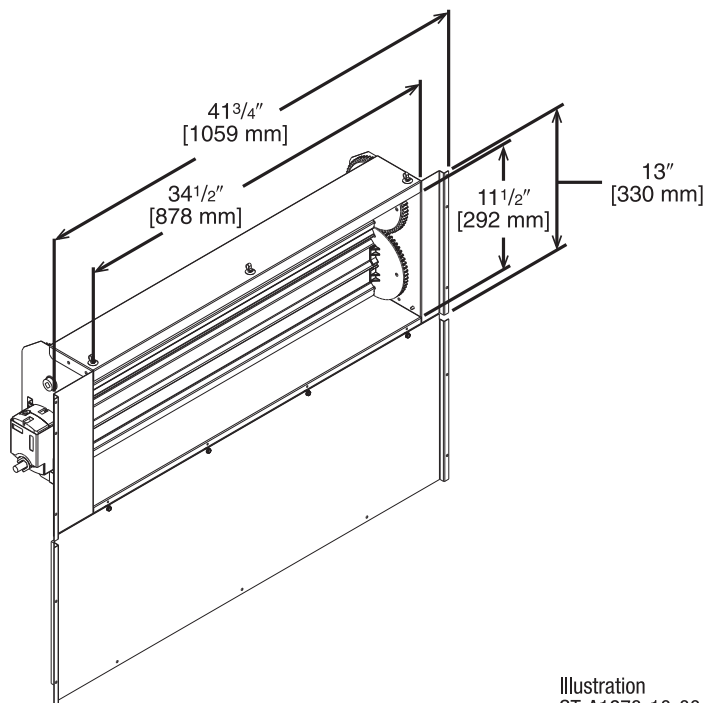


Illustration
ST-A1273-10-00

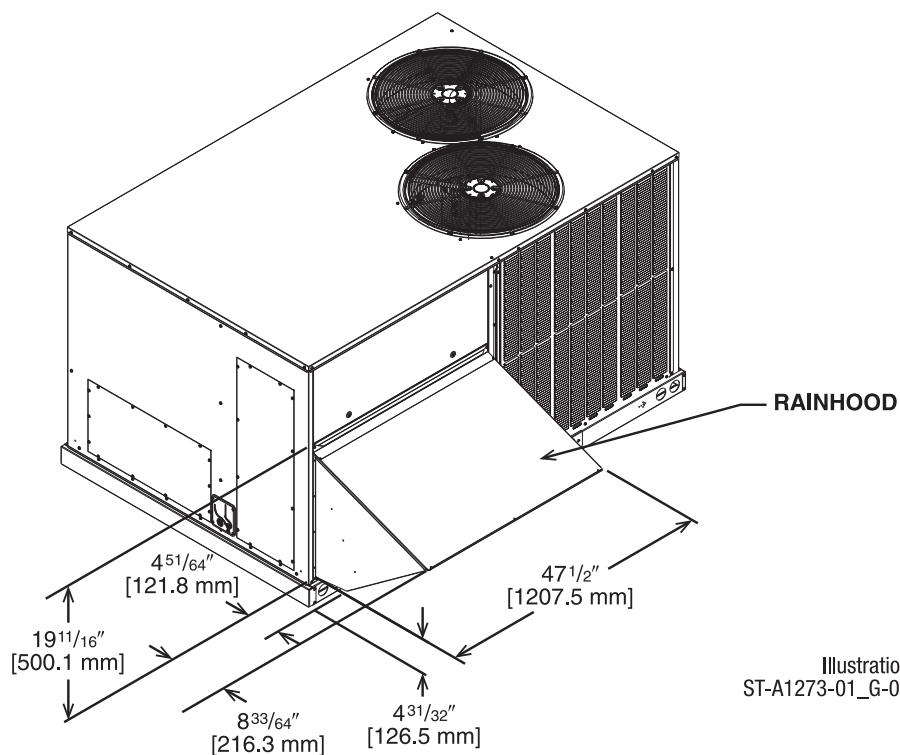


Illustration
ST-A1273-01_G-00

[] Designates Metric Conversions

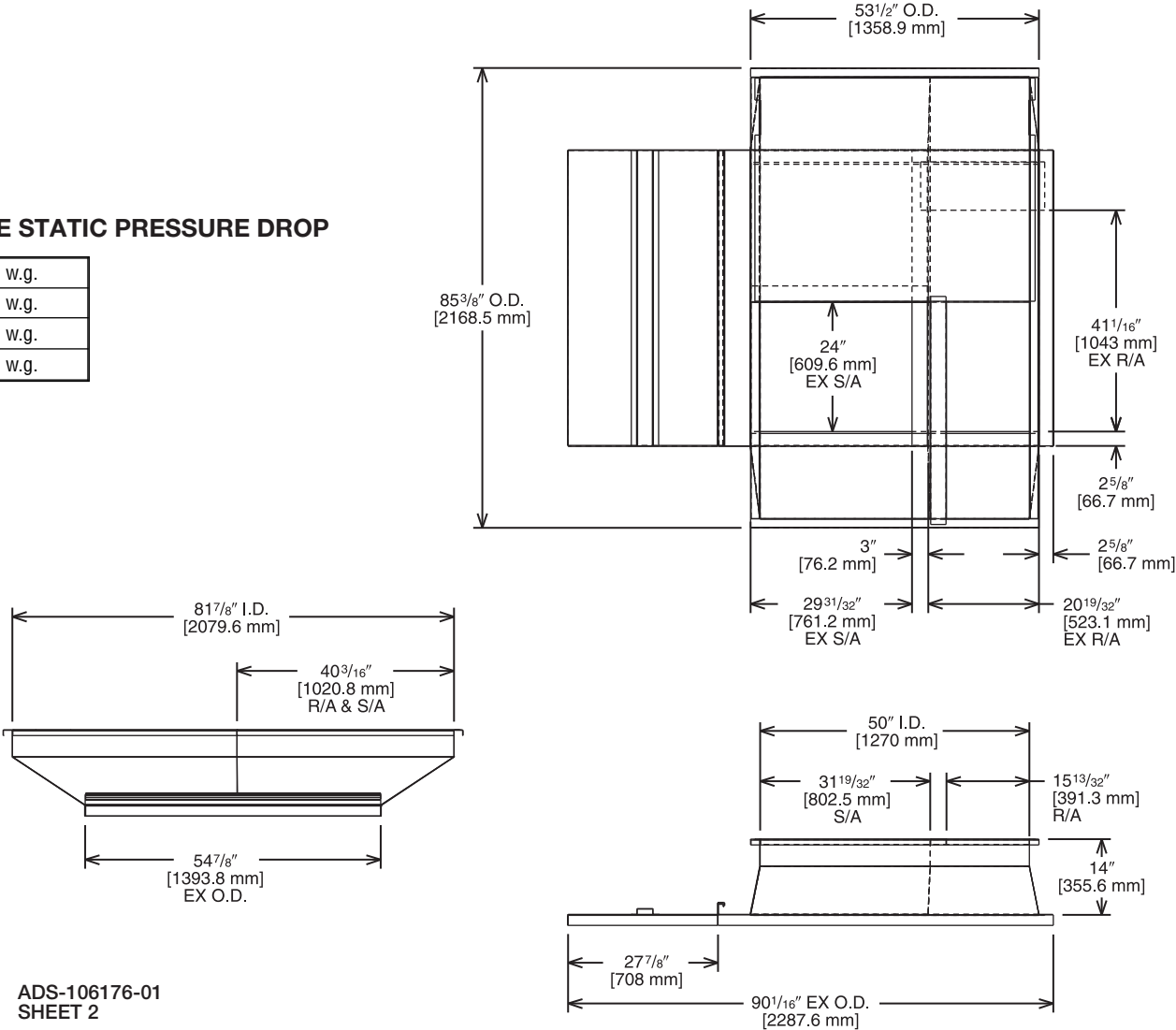
ROOFCURB ADAPTERS

RXXRX-DDCAE

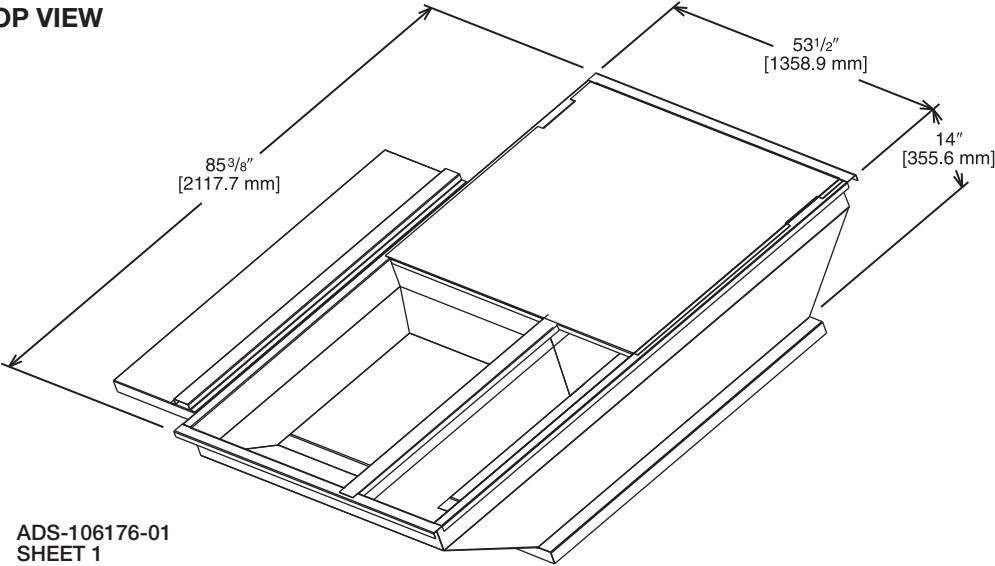
SIDE VIEW

APPROXIMATE STATIC PRESSURE DROP

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



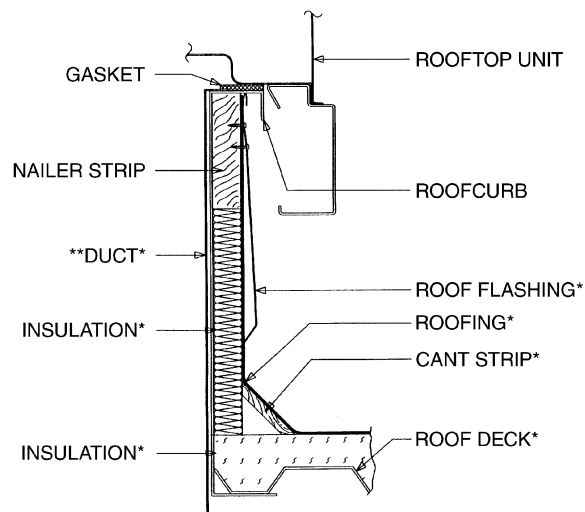
TOP VIEW



[] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

- The roofcurb design can be utilized on all 7.5-10 ton 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 connection opening provided on the unit base pan
- 1" [25 mm] x 4" [102 mm] Nailers provided
- Insulating panels not required because of insulated outdoor base pan
- Sealing gasket (40' [12.2 m]) provided with Roofcurb
- Packaged for easy field assembly

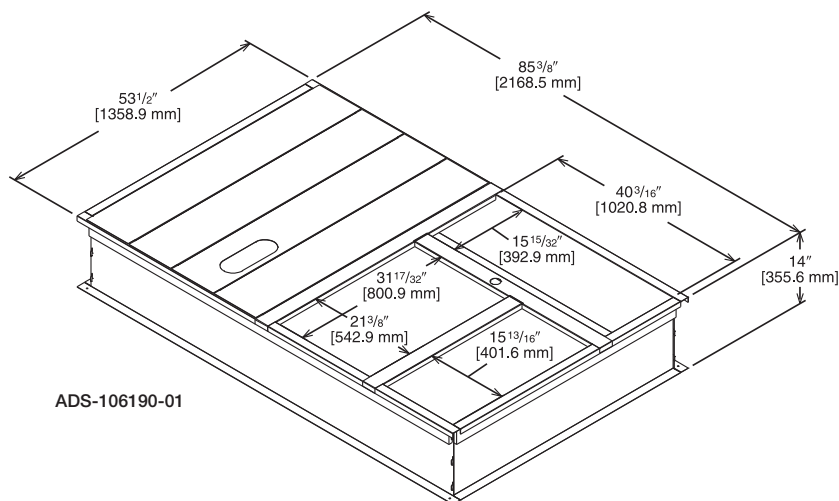


*BY CONTRACTOR

**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.

ST-A0743-02

ROOFCURB INSTALLATION—VIEW A



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

[] Designates Metric Conversions

• **State of Florida Approved:** Florida approval #26981 and corresponding Technical Evaluation Report (TER) number are available under separate copy. Unit and mounting methods are for high wind resistance and are compliant per Florida Building Code.

COMMUNICATION CARDS

Field-Installed



BACnet COMMUNICATION CARD RXRX-AY01

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



LonWorks COMMUNICATION CARD RXRX-AY02

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

GUIDE SPECIFICATIONS — RHPDYB – 090-120

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

ELECTRIC HEAT PUMP PACKAGED ROOFTOP

HVAC Guide Specifications

Size Range: 7.5 to 10 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 340/360.
- 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.
- J. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.

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. Unit 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 lbs density, flexible fiberglass insulation, foil faced on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
- E. Shall utilize uniform screw sizing.
- F. Base of unit shall have a location for thru-the-base gas and electrical connections standard.
- G. Base Rail:
 - i. Unit shall have base rails on a minimum of 4 sides.
 - ii. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - iii. Holes shall be provided in the base rail for moving the rooftop for fork truck.
 - iv. Base rail shall be a minimum of 14 gauge thickness.
- H. Condensate pan and connections:
 - i. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
 - ii. Shall comply with ASHRAE Standard 62.
 - iii. 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.
 - iv. Shall be able to be easily removed.
 - v. Shall be separate from the coil.

- I. Standard factory-installed condensate overflow sensor.
- J. Top panel
 - i. Shall be a single piece top panel over indoor section.
- K. Electrical Connections:
 - i. All unit power wiring shall enter unit cabinet via a single, factory-prepared, continuous raised flange opening in the
 - ii. Thru-the-base capability:
 - a. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the basepan.
 - b. No basepan penetration, other than those authorized by the manufacturer, is permitted.
- L. Component access panels (standard):
 - i. Cabinet panels shall be easily opened for servicing.
 - ii. Stainless steel metal hinges are standard on all doors
 - iii. Panels covering control box, indoor fan, indoor fan motor, and electric or gas heater components (where applicable), shall have 1/4 turn latches.

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 340/360 at $\pm 10\%$ voltage.
- B. Compressor with standard controls shall be capable of operation down to 40°F (4°C), ambient outdoor temperatures. Low ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 40°F (4°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.
- F. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.

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. 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 (090-150 units have a resettable circuit breaker).
- B. Shall utilize color-coded wiring.
- C. Shall include a central control terminal board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, DDC control options, loss of charge, freeze sensor, high-pressure switches.
- D. Unit shall include a minimum of one 10-pin screw terminal connection board for connection of control wiring.
- E. Unit control board shall be provided with 7 segment readout via LCD display for status and diagnostics.

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
 - a. 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.
 - iii. 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:
 - i. High-temperature limit switches.
 - ii. Induced draft motor pressure switch.

1.11 Standard Filter Section:

- A. Filters 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, 2-stage scroll compressor for each independent refrigeration circuit.
 - ii. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - iii. Compressors shall be internally protected from high discharge temperature conditions.
 - iv. Compressors shall be protected from an over-temperature and over-ampere conditions by an internal, motor overload device.
 - v. Compressor shall be factory mounted on rubber grommets.
 - vi. Compressor motors shall have internal line break thermal and current overload protection.
 - vii. Crankcase heaters shall not be required for normal operating range.
 - viii. 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.
 - iii. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
- B. Direct Drive Evaporator Fan:
 - i. Belt drive shall include an adjustable-pitch motor pulley.
 - ii. Shall use sealed, permanently lubricated ball-bearing type.
 - iii. Blower fan shall be double-inlet type with forward-curved blades.
 - iv. 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 Motors:
 - 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 Fans:
 - 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 CO₂ 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 Adjustable Frequency Drive:

- A. Unit shall be supplied with an electronic variable frequency drive for the supply air fan.
- B. Drive shall be factory-installed in an enclosed cabinet.
- C. Drive shall meet UL Standard 60335-2-40 4th Edition.
- D. The completed unit assembly shall be UL listed.
- E. Drives are to be accessible through a tooled access hinged door assembly.
- F. The unit manufacturer shall install all power and control wiring.
- G. The supply air fan drive output shall be controlled by the factory-installed main unit control system and drive status and operating speed shall be monitored and displayed at the main unit control panel.
- H. Drive shall be programmed and factory run tested in the unit.

1.19 Special Features:

A. Integrated Economizers:

- i. Integrated, 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. 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 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.
- vii. 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 CO2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
- xv. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
- xvi. Economizer wire harness will have provision for smoke detector available in supply and return options.
- xvii. Shall provide fault detection and diagnostics (FDD) system in accordance with local code. Faults shall be communicated out on an alarm signal.

B. Two-Position Motorized Damper:

- i. Damper shall be a Two-Position Motorized Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
- ii. Damper shall include adjustable damper travel from 25% to 100% (full open).
- iii. Damper shall include single or dual blade, gear driven dampers and actuator motor.
- iv. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.
- v. Damper will admit up to 100% outdoor air for applicable rooftop units.
- vi. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
- vii. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
- viii. Outside air hood shall include aluminum water entrainment filter

C. 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.

D. Condenser Coil Hail Guard Assembly:

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

E. 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.

F. Convenience Outlet:

- i. Non-Powered convenience outlet.
- ii. Outlet shall be powered from a separate 115-120v power source.
- iii. A transformer shall not be included.
- iv. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
- v. Outlet shall include 15 amp GFI receptacle with independent fuse protection.
- vi. Outlet shall be accessible from outside the unit.

- G. Propeller Power Exhaust:
 - i. Power exhaust shall be used in conjunction with an integrated economizer.
 - ii. Independent modules for vertical or horizontal return configurations shall be available.
 - iii. Horizontal power exhaust shall be mounted in return ductwork.
 - iv. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers are open.
 - v. Capable of adjustable but constant volume.
- H. Roof Curbs (Vertical):
 - i. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - ii. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- I. Return Air Enthalpy Sensor
 - i. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
- J. Indoor Air Quality (CO2) Sensor:
 - i. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - ii. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.
- K. Smoke detectors:
 - i. Shall be a Four-Wire Controller and Detector.
 - ii. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - iii. Shall use magnet-activated test/reset sensor switches.
 - iv. Shall have tool-less connection terminal access.
 - v. Shall have a recessed momentary switch for testing and resetting the detector.
 - vi. Controller shall include:
 - a. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
 - b. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment
 - c. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station
 - d. Capable of direct connection to two individual detector modules.
 - e. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
- L. Barometric Relief:
 - i. Shall include damper, seals, hardware, and hoods to relieve excess building pressure.
 - ii. Damper shall gravity-close upon shutdown.
- M. Time Guard:
 - i. Shall prevent compressor short cycling by providing a 5-minute delay (± 2 minutes) before restarting a compressor after shutdown for any reason.
 - ii. One device shall be required per compressor.
- N. Standard Factory-Installed Overflow Switch
 - i. Switch shall monitor the condensate level in drain pan and stops compression operation when overflow conditions occur.
- O. Access Panels:
 - i. Hinges with $\frac{1}{4}$ turn fasteners shall be permanently attached.
 - ii. Hinges shall be powder coated and made from stainless steel.
- P. Head Pressure Control Package
 - i. Controller shall control coil head pressure by condenser-fan cycling.
- Q. Fan/Filter Status Switch:
 - i. Switch shall provide status of indoor evaporator fan (ON/OFF) or filter (CLEAN/DIRTY).
 - ii. Status shall be displayed either over communication bus (when used with direct digital controls) or through the controller LCD display inside the unit control box.
- R. Refrigerant Leak Detection System:
 - i. Shall be standard and factory-installed in every unit.
 - ii. Shall trigger a fault code to the unit controller and initiate mitigation procedures.



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 ApplicationsFive (5) Years

Parts

Commercial ApplicationsOne (1) Year

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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