

### Rheem *Commercial Prestige Series*™ Package Air Conditioner



### **RLRL-C Series**

With ClearControl™ Nominal Sizes 7.5 & 10 Tons [26.4 & 35.2 kW] ASHRAE 90.1-2007 Compliant Models

### **RLRL-H Series**

With ClearControl™ & VFD Technology Nominal Sizes 7.5 & 10 Tons [26.4 & 35.2 kW] ASHRAE 90.1-2010 Compliant Models







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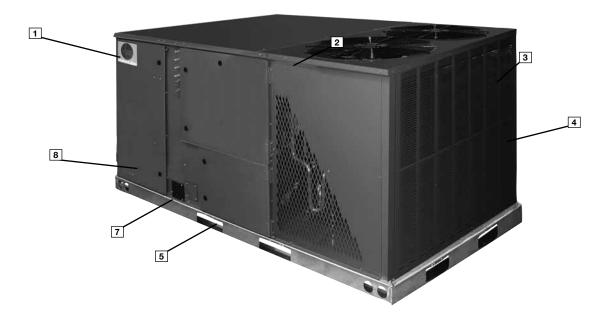
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### RLRL-C/H STANDARD FEATURES INCLUDE:

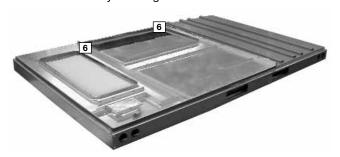
- R-410A HFC refrigerant.
- · Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- · Two stage operation, two independent circuits.
- Convertible airflow-vertical downflow or horizontal sideflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintained high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Hinged major access door with heavy-duty gasketing, 1/4 turn latches and door retainers.
- Slide Out Indoor fan assembly for added service convenience.
- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.

- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin Evaporator coils.
- MicroChannel condenser coil.
- Molded compressor plug.
- Supplemental electric heat provides 100% efficient heating.
- Factory Installed Direct Digital Control (DDC) and sensors which can connect to LonWorks<sup>™</sup> or BACnet® BAS systems for remote monitoring and control.
- -H models with supply fan Variable Frequency Drive (VFD) meets ASHRAE 90.1-2010 and California Title 24.



Rheem Package equipment is designed from the ground up with the latest features and benefits required to compete in today's market. The clean design stands alone in the industry and is a testament to the quality, reliability, ease of installation and serviceability that goes into each unit. Outwardly, the large Rheem Commercial Series<sup>™</sup> label (1) identifies the brand to the customer. The sheet-metal cabinet (2) uses nothing less than 18gauge 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), gasket-protected panels and screws. The Rheem hail guard (optional) (4) is its trademark, and sets the standard for coil protection in the industry. Every Rheem package unit uses the toughest finish in the industry, using electro deposition bakedon enamel tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

Anything built to last must start with the right foundation. In this case, the foundation is 14-gauge, commercial-grade, full-perimeter base rails (5), which integrate fork slots and rigging holes to save set-up time on the job site. The base pan is stamped, which forms a 1-1/8" flange around the supply and return cover and has eliminated the worry of water entering the conditioned space (6). The insulation has been placed on the underside of the basepan, removing areas that would allow for potential moisture accumulation, which can facilitate growth of harmful bacteria. All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden. The drainpan (7) is made of material that resists the growth of harmful bacteria and is sloped for the latest IAQ benefits. Furthermore, the drain pan slides out for easy cleaning.



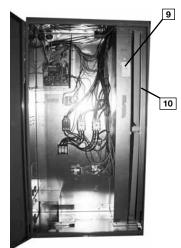
During development, each unit was tested to U.L. 1995, AHRI 340-370 and other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate (18). Contractors can rest assured that when a Rheem package unit arrives at the job, it is ready to go with a factory charge and quality checks.

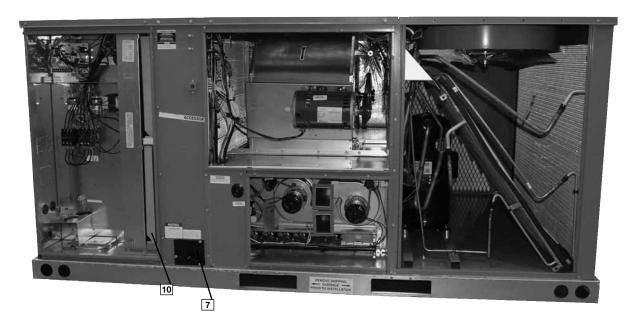
Access to all major compartments is from the front of the unit, including the filter and electrical compartment, blower compartment, heating section, and outdoor section. Each compartment has 1/4 turn fasteners and hinged access. Each panel is permanently embossed with the compartment name (control/filter access, blower access and electric heat access).

Electrical and filter compartment access is through a large, hinged-access panel. On the outside of the panel is the unit nameplate, which contains the model and serial number, electrical data and other important unit information.

The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found

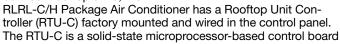
on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having this information on the inside will assure model identification for the life of the product. The production line quality test assurance label is also placed in this location (9). The two-inch throwaway filters (10) are easily removed on a tracked system for easy replacement.





Inside the control box (11), each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The control transformer has a low voltage circuit breaker that trips if a low voltage electrical short occurs. There is a blower contactor and compressor for each compressor.

As part of the ClearControl™ system which allows real time monitoring and communication between rooftop units, the



that provides flexible control and extensive diagnostics for all unit functions. The RTU-C through proportional/integral control algorithms perform 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. (12) New 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 freezestats to allow measurement of refrigerant suction line temperatures. The RLRL-C/H Package Air Conditioner with ClearControl™ is specifically designed to be applied in four distinct applications:

The RLRL-C/H 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 ClearControl™ 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.

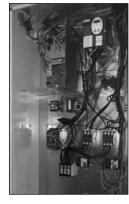
The RLRL-C/H is compatible with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field installed LonMark communication module. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between ClearControl™ 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 ft. with no repeater. The LonWorks limit of 64 nodes per segment applies to this device.

The RLRL-C/H 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.

The RLRL-C/H is compatible with a zone sensor and 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.

A factory or field installed Comfort Alert® 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.

-H models with factory installed supply fan, VFD (Variable Frequency Drive) optimizes energy usage year round by providing a lower speed for first stage cooling operation improving IEER's by up to 33% over the conventional constant fan system. Furthermore, operating in the constant fan mode at the reduced speed can use as little as 1/8th 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 supply fan factory option meet's California Title 24



and ASHRAE 90.1-2010 requirements for multi blower speed control. VFD also ramps up to the desired speed reducing stress on the supply fan components and reducing the noise from 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.

For added convenience in the field, a factory-installed convenience outlet (13) is available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made integrated cooling control. The high-voltage connection



is terminated at the number 1 compressor contactor. The suggested mounting for the field-installed disconnect is on the exterior side of the electrical control box.

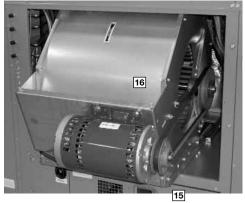
To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by

embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection (14). With the gauge ports mounted externally, an accurate diagnostic of system operation can be performed quickly and easily. The blower compartment is to the right of the gauge ports and can be



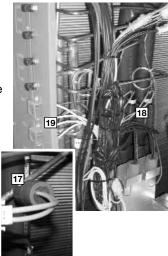
accessed by 1/4 turn fasteners. To allow easy maintenance of the blower assembly, the entire assembly easily slides out by removing the 3/8" screws from the blower retention bracket. The

adjustable motor pulley (15) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the pullev 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 has high-static drives available 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 (16) and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an "H" bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which can score the shaft, creating burrs that make blower-pulley removal difficult.

Also inside the blower compartment is the low-ambient control (17), low-pressure switch (18), high-pressure switch (19) and freeze sensor refrigerant safety device (20). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch will shut off the compressors if pressures in excess of 610 PSIG are detected, this may occur if the outdoor fan motor fails. The low-pressure switch shuts off the compressors if low pressure is detected due to loss of charge. The freeze sensor protects the compres-



sor if the evaporator coil gets too cold (below freezing) due to low airflow, and allows monitoring of the suction line temperature on the controller display. Each factory-installed option is brazed into the appropriate high or low side and wired appropriately. Use of polarized plugs and schrader fittings allow for easy field installation.

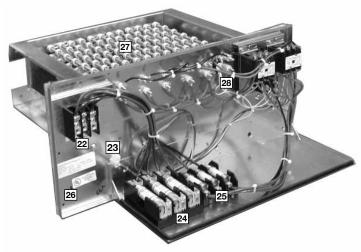
Inside the blower compartment the interlaced evaporator can also be viewed. The evaporator uses enhanced fin technology for maximum heat transfer. The TXV metering device assures even distribution of refrigerant throughout the evaporator. (Note: 6 ton single stage has an

orifice refrigerant control.)

Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly (20) provides an air-tight and water-tight seal, and provides strain



relief. Care is also taken to tuck raw edges of insulation behind sheet metal to improve indoor air quality.



The heating compartment contains the latest electric furnace technology on the market. The 100% efficient electric furnace can be factory-installed or easily field-installed. Built with easeof-installation in mind, the electric furnace is completely wired for slide-in, plug-and-play installation in the field. With choices of up to six kilowatt offerings, the contractor is assured to get the correct amount of heating output to meet the designed heating load.

Power hook-up in the field is easy with single-point wiring to a terminal block (22) and a polarized plug for the low-voltage connection (23). The electric furnace comes with fuses for the unit (24) and for the electric furnace (25), and is UL certified (26). The electric heating elements are of a wound-wire construction (27) and isolated with ceramic bushings. The limit switch (28) protects the design from over-temperature conditions. Each electric furnace has the capability to be converted from singlestage operation to two-stage operation by removing a jumper on the low-voltage terminal strip.

The compressor compartment houses the heartbeat of the unit. The scroll compressor (29) is known for its long life, and for reliable, quiet, and efficient operation. Each compressor has molded compressor plug eliminating potential for mis wiring. The suction and discharge lines are designed with shock loops (30) to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing. Each compressor and circuit is independent for built-in redundancy, and each circuit



is clearly marked throughout the system. Each unit has two stages of efficient cooling operation, first stage is approximately 50% of second stage (072 single stage).

Each unit comes standard with filter dryer (31). The condenser fan motor (32) can easily be accessed and maintained through the compressor compartment. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

The outdoor coil uses the latest enhanced fin design (33) for the most effective method of heat transfer. The outdoor coil is protected by optional louvered panels, which allow unobstructed airflow while protecting the unit from both Mother Nature and vandalism.

Each unit is designed for both downflow or horizontal applications (34) for job configuration flexibility. The return air compartment can also contain an economizer (35). Three models exist, two

for downflow applications, and one for horizontal applications (A

downflow economizer with factory installed smoke detector in the return section is available).

Each unit is pre-wired for the economizer to allow guick plug-in installation. The economizer is also available as a factoryinstalled option. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the

field. The economizer control has a minimum position setpoint, an outdoor-air setpoint, a mix-air setpoint, and a CO<sub>2</sub> setpoint. Barometric relief is standard on all economizers. Power 35 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.

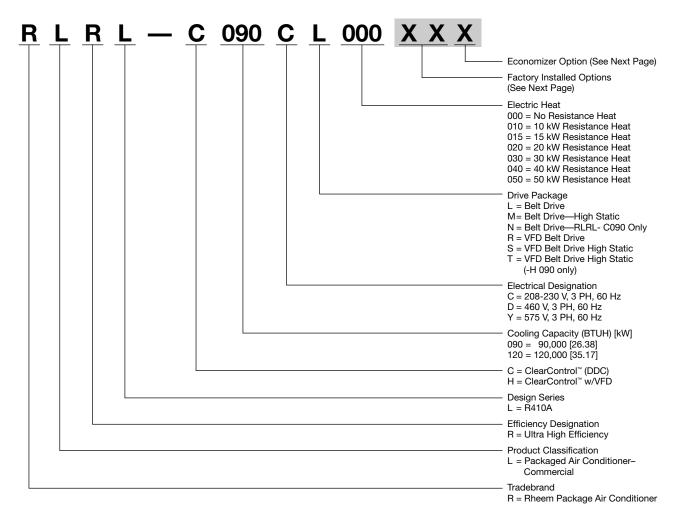
The damper minimum position, actual damper position, power exhaust on/off setpoint, mixed air temperature limit setpoint and Demand Controlled Ventilation (DCV) setpoint can be read and adjusted at the unit controller display or remotely through a network connection.

The Space CO<sub>2</sub> level, mixed air temperature, and Economizer Status (Free Cooling Available, Single or Dual Enthalpy) can be read at the unit controller display or remotely through a network connection. Economizer Faults will trigger a network Alarm and can be read at the unit controller display or remotely through a network connection.

The Rheem roofcurb (36) is made for toolless assembly at the jobsite by engaging a pin into the hinged corners of adjacent

process quick and easy.





### 6 TO 12.5 TON [21.1 TO 44.0 kW]

Option Code	Hail Guard	Non-Powered Convenience Outlet	Low Ambient/ Comfort Alert
AD	х		
AG		X	
AR			Х
JD	X		Х
BJ	x	X	
CZ	x	X	Х
JE		X	Х

<sup>&</sup>quot;x" indicates factory installed option.

### ECONOMIZER SELECTION FOR LRL 7 TO 10 TON [26.4 TO 35.2 kW]

	No Economizer	DDC Single Enthalpy Economizer with Barometric Relief	DDC Single Enthalpy Economizer with Barometric Relief and Smoke Detector
А	x		
Н		X	
J			Х

<sup>&</sup>quot;x" indicates factory installed option.

### 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, nothing follows the model number.

**Step 1.** After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE.

Proceed to Step 2.

**Step 2.** The last option code character is utilized for factory-installed economizers. Choose a character from the FACTORY INSTALLED ECONOMIZER SELECTION TABLE.

### **Examples:**

RLRL-C120CL000.....this unit has no factory installed options.

RLRL-C120CL000ADA .....this unit is equipped with <u>hail guards.</u>

RLRL-C120CL000**JDA** .....this unit is equipped with <u>hail guards, low ambient and comfort alert.</u>

RLRL-C120CL000**JDH** .....this unit is equipped as above and includes an <u>Economizer</u> with single enthalpy sensor and with barometric relief.

RLRL-C120CL000**AAJ** .....this unit is equipped with an <u>Economizer with single enthalpy sensor and barometric relief with smoke detector.</u>

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

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

### Example:

\*External Static Pressure—

Voltage— 208/240V 3 Phase

Total cooling capacity— 106,000 BTUH [31.26 kW]

Sensible cooling capacity— 82,000 BTUH [24.03 kW]

\*Condenser Entering Air— 95°F [35°C] DB

\*Evaporator Mixed Air Entering—65°F [18°C] WB;

78°F [26°C] DB

\*Indoor Air Flow (vertical)— 3600 CFM [1699 L/s]

### 2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 10 ton [35.2 kW] unit, enter cooling performance table at 95°F [35°C] DB condenser inlet air. Interpolate between 63°F [2°C] and 67°F [19°C] to determine total and sensible capacity and power input for 65°F [18°C] WB evap inlet air at 4000 CFM [1888 L/s] indoor air flow (table basis):

.40 in. WG

Total Capacity = 118,900 BTUH [34.80 kW] Sensible Capacity = 99,950 BTUH [29.29 kW] Power Input (Compressor and Cond. Fans) = 8,950 watts

Use formula [1.10 x CFM x (1 – DR) x (dbE – 80)] in note 1 to determine sensible capacity at 80°F [26.7°C] DB evaporator entering air:

Sensible Capacity = 92,268 BTUH [27.24 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,  $118,900 \times .98 = 116,522$  BTUH [34.15 kW] Sensible Capacity,  $92,268 \times .95 = 87,655$  BTUH [25.67 kW] Power Input  $11,650 \times .99 = 8,861$  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 .40 in. includes the system duct and grilles. Add from the table "Component Air Resistance," .076 for wet coil, .13 for vertical air flow, for a total selection static pressure of .606 (.6) inches of water, and determine:

RPM = 796 WATTS = 1,650 DRIVE = L (standard 2 H.P. motor)

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

BTUH =  $1,650 \times 3.412 = 5,630$ 

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

Net Total Capacity = 116,522 - 5,630 = 110,892 BTUH [32.5 kW]

Net Sensible Capacity = 87,655 - 5,630 = 82,025 BTUH [24.04 kW]

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

Total Power Input = 88,610 (step 3) + 1,650 (step 4) = 10,511 Watts

 $EER = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input. Watts (above)}} = \frac{110,892}{10.511} = 10.55$ 

### 8. SELECT UNIT HEATING CAPACITY.

Units with heater kits section find unit heater kw and convert watts to BTU: add blower BTUH heat effect (step 5).

<u>CC50C</u> <u>Heater Kit</u> kW x 3412 = 163,776 BTUH [48.00 kW]

+ 5,630 BTUH [ 1.65 kW]

Heating Capacity= 169,406 BTUH [49.65 kW]

### CHOOSE MODEL RLRL-C/H120CL050

\*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.



Model RLRL- Series Model RLRL- Series (with VFD)	CO9OCL Ho9ocr	CO9OCM HO9OCS	C090CN H090CT	CO90DL H090DR
Cooling Performance <sup>1</sup>				CONTINUED -
Gross Cooling Capacity Btu [kW]	95,000 [27.83]	95,000 [27.83]	95,000 [27.83]	95,000 [27.83]
EER/SEER2	13/NA	13/NA	13/NA	13/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/2600 [1416/1227]	3000/2600 [1416/1227]	3000/2600 [1416/1227]	3000/2600 [1416/1227]
AHRI Net Cooling Capacity Btu [kW]	92,000 [26.96]	92,000 [26.96]	92,000 [26.96]	92,000 [26.96]
Net Sensible Capacity Btu [kW]	66,200 [19.4]	66,200 [19.4]	66,200 [19.4]	66,200 [19.4]
Net Latent Capacity Btu [kW]	25,800 [7.56]	25,800 [7.56]	25,800 [7.56]	25,800 [7.56]
IEER3 (Standard / VFD)	14/15.8	14/15.8	14/15.8	14/15.8
Net System Power kW	7.04	7.04	7.04	7.04
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB) <sup>5</sup>	88	88	88	88
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
ndoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075	1075
ndoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter 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 (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	2	2	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
ilter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	105.6/105.6 [2994/2994]	105.6/105.6 [2994/2994]	105.6/105.6 [2994/2994]	105.6/105.6 [2994/2994
Veights	[]		[	
Net Weight lbs. [kg]	1020 [463]	1020 [463]	1028 [466]	1020 [463]
Ship Weight lbs. [kg]	1057 [479]	1057 [479]	1065 [483]	1057 [479]

### **NOTES:**

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

Model RLRL- Series Model RLRL- Series (with VFD)	CO90DM Ho90DS	CO9ODN Ho9odt	C090YL	C090YM
Cooling Performance <sup>1</sup>				CONTINUED -
Gross Cooling Capacity Btu [kW]	95,000 [27.83]	95,000 [27.83]	95,000 [27.83]	95,000 [27.83]
EER/SEER2	13/NA	13/NA	13/NA	13/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/2600 [1416/1227]	3000/2600 [1416/1227]	3000/2600 [1416/1227]	3000/2600 [1416/1227]
AHRI Net Cooling Capacity Btu [kW]	92,000 [26.96]	92,000 [26.96]	92,000 [26.96]	92,000 [26.96]
Net Sensible Capacity Btu [kW]	66,200 [19.4]	66,200 [19.4]	66,200 [19.4]	66,200 [19.4]
Net Latent Capacity Btu [kW]	25,800 [7.56]	25,800 [7.56]	25,800 [7.56]	25,800 [7.56]
IEER3 (Standard / VFD)	14/15.8	14/15.8	14	14
Net System Power kW	7.04	7.04	7.04	7.04
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB) <sup>5</sup>	88	88	88	88
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
ndoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075	1075
ndoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter 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 (Standard / VFD)	Single / Multiple	Single / Multiple	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	2	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
ilter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	105.6/105.6 [2994/2994]	105.6/105.6 [2994/2994]	105.6/105.6 [2994/2994]	105.6/105.6 [2994/2994
Veights				
Net Weight lbs. [kg]	1020 [463]	1028 [466]	1020 [463]	1020 [463]
Ship Weight lbs. [kg]	1057 [479]	1065 [483]	1057 [479]	1057 [479]

### **NOTES:**

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



Model RLRL- Series Model RLRL- Series (with VFD)	CO90YN	C120CL H120CR	C120CM H120CS	C120DL H120DR
Cooling Performance <sup>1</sup>				CONTINUED -
Gross Cooling Capacity Btu [kW]	95,000 [27.83]	124,000 [36.33]	124,000 [36.33]	124,000 [36.33]
EER/SEER2	13/NA	12.5/NA	12.5/NA	12.5/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/2600 [1416/1227]	4000/3575 [1888/1687]	4000/3575 [1888/1687]	4000/3575 [1888/1687]
AHRI Net Cooling Capacity Btu [kW]	92,000 [26.96]	120,000 [35.16]	120,000 [35.16]	120,000 [35.16]
Net Sensible Capacity Btu [kW]	66,200 [19.4]	87,600 [25.67]	87,600 [25.67]	87,600 [25.67]
Net Latent Capacity Btu [kW]	25,800 [7.56]	32,400 [9.49]	32,400 [9.49]	32,400 [9.49]
IEER3 (Standard / VFD)	14	13.8/15.6	13.8/15.6	13.8/15.6
Net System Power kW	7.04	9.62	9.62	9.62
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB) <sup>5</sup>	88	88	88	88
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]
ndoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	15.75 [1.46]	15.8 [1.47]	15.75 [1.46]
Rows / FPI [FPcm]	2 / 18 [7]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075	1075
ndoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter 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 (Standard / VFD)	Single	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1	1
Motor HP	3	2	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
ilter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457 (3)2x18x24 [51x457x610
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	107.5/110.7 [3048/3138]	153.6/156.8 [4355/4445]	153.6/156.8 [4355/4445]	153.6/156.8 [4355/4445]
Veights ( )				
Net Weight lbs. [kg]	1028 [466]	1169 [530]	1177 [534]	1169 [530]
Ship Weight lbs. [kg]	1065 [483]	1206 [547]	1214 [551]	1206 [547]

### **NOTES:**

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

Model RLRL- Series Model RLRL- Series (with VFD)	C120DM H120DS	C120YL	C120YM
Cooling Performance <sup>1</sup>			
Gross Cooling Capacity Btu [kW]	124,000 [36.33]	124,000 [36.33]	124,000 [36.33]
EER/SEER2	12.5/NA	12.5/NA	12.5/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/3575 [1888/1687]	4000/3575 [1888/1687]	4000/3575 [1888/1687]
AHRI Net Cooling Capacity Btu [kW]	120,000 [35.16]	120,000 [35.16]	120,000 [35.16]
Net Sensible Capacity Btu [kW]	87,600 [25.67]	87,600 [25.67]	87,600 [25.67]
Net Latent Capacity Btu [kW]	32,400 [9.49]	32,400 [9.49]	32,400 [9.49]
IEER3 (Standard / VFD)	13.8/15.6	13.8	13.8
Net System Power kW	9.62	9.62	9.62
ompressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
utdoor Sound Rating (dB) <sup>5</sup>	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]
door Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single	Single
No. Motors	1	1	1
Motor HP	3	2	3
Motor RPM	1725	- 1725	1725
Motor Frame Size	56	56	56
iter—Type	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
efrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	153.6/156.8 [4355/4445]	153.6/156.8 [4355/4445]	153.6/156.8 [4355/4445]
/eights			
Net Weight lbs. [kg]	1177 [534]	1169 [530]	1177 [534]
Ship Weight lbs. [kg]	1214 [551]	1206 [547]	1214 [551]

### **NOTES:**

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

### **GROSS SYSTEMS PERFORMANCE DATA—C/H090**

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①	)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	3600 [1699]	2600 [1227]	2400 [1133]	3600 [1699]	2600 [1227]	2400 [1133]	3600 [1699]	2600 [1227]	2400 [1133]
L		DR ①	.0	.03	.05	.0	.03	.05	.0	.03	.05
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	121.5 [35.6] 82.0 [24.0] 5.2	113.6 [33.3] 61.6 [18.0] 5.0	112.0 [32.8] 57.8 [16.9] 5.0	115.0 [33.7] 95.3 [27.9] 5.1	107.5 [31.5] 73.3 [21.5] 5.0	106.0 [31.1] 69.2 [20.3] 4.9	109.4 [32.1] 105.8 [31.0] 5.1	102.3 [30.0] 82.6 [24.2] 4.9	100.9 [29.6] 78.3 [22.9] 4.9
UTDO	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	118.2 [34.6] 80.8 [23.7] 5.5	110.5 [32.4] 60.8 [17.8] 5.3	108.9 [31.9] 57.1 [16.7] 5.3	111.6 [32.7] 94.0 [27.5] 5.4	104.4 [30.6] 72.5 [21.2] 5.3	102.9 [30.1] 68.5 [20.1] 5.2	106.1 [31.1] 104.6 [30.6] 5.4	99.2 [29.1] 81.8 [24.0] 5.2	97.8 [28.7] 77.5 [22.7] 5.2
R D	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	114.8 [33.6] 79.4 [23.3] 5.8	107.3 [31.4] 59.8 [17.5] 5.6	105.8 [31.0] 56.2 [16.5] 5.6	108.2 [31.7] 92.6 [27.1] 5.8	101.2 [29.7] 71.5 [20.9] 5.6	99.7 [29.2] 67.5 [19.8] 5.5	102.7 [30.1] 102.7 [30.1] 5.7	96.0 [28.1] 80.8 [23.7] 5.5	94.7 [27.7] 76.6 [22.4] 5.5
R Y B	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	111.3 [32.6] 77.6 [22.7] 6.2	104.0 [30.5] 58.5 [17.1] 6.0	102.6 [30.1] 55.1 [16.1] 5.9	104.7 [30.7] 90.8 [26.6] 6.1	97.9 [28.7] 70.2 [20.6] 5.9	96.5 [28.3] 66.3 [19.4] 5.9	99.2 [29.1] 99.2 [29.1] 6.1	92.7 [27.2] 79.5 [23.3] 5.9	91.4 [26.8] 75.4 [22.1] 5.8
U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	107.7 [31.6] 75.6 [22.2] 6.6	100.7 [29.5] 57.1 [16.7] 6.3	99.3 [29.1] 53.7 [15.7] 6.3	101.2 [29.7] 88.9 [26.0] 6.5	94.5 [27.7] 68.7 [20.1] 6.3	93.2 [27.3] 65.0 [19.0] 6.3	95.6 [28.0] 95.6 [28.0] 6.5	89.4 [26.2] 78.1 [22.9] 6.2	88.1 [25.8] 74.0 [21.7] 6.2
E M P E	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	104.0 [30.5] 73.2 [21.4] 7.0	97.2 [28.5] 55.3 [16.2] 6.7	95.9 [28.1] 52.1 [15.3] 6.7	97.5 [28.6] 86.6 [25.4] 6.9	91.1 [26.7] 67.0 [19.6] 6.7	89.8 [26.3] 63.3 [18.5] 6.7	92.0 [27.0] 92.0 [27.0] 6.9	85.9 [25.2] 76.3 [22.4] 6.6	84.7 [24.8] 72.4 [21.2] 6.6
R A T U	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	100.3 [29.4] 70.8 [20.7] 7.4	93.7 [27.5] 53.4 [15.6] 7.2	92.4 [27.1] 50.2 [14.7] 7.1	93.7 [27.5] 84.0 [24.6] 7.4	87.6 [25.7] 65.1 [19.1] 7.1	86.4 [25.3] 61.6 [18.0] 7.1	88.2 [25.8] 88.2 [25.8] 7.3	82.4 [24.1] 74.4 [21.8] 7.1	81.3 [23.8] 70.7 [20.7] 7.0
R E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	96.5 [28.3] 67.9 [19.9] 7.9	90.2 [26.4] 51.3 [15.0] 7.6	88.9 [26.0] 48.2 [14.1] 7.6	89.9 [26.3] 81.1 [23.8] 7.8	84.0 [24.6] 62.9 [18.4] 7.6	82.9 [24.3] 59.6 [17.5] 7.5	84.4 [24.7] 84.4 [24.7] 7.8	78.9 [23.1] 72.3 [21.2] 7.5	77.8 [22.8] 68.6 [20.1] 7.5
['0]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	92.5 [27.1] 64.8 [19.0] 8.4	86.5 [25.3] 48.9 [14.3] 8.1	85.3 [25.0] 46.0 [13.5] 8.1	86.0 [25.2] 78.1 [22.9] 8.4	80.4 [23.6] 60.6 [17.8] 8.1	79.2 [23.2] 57.3 [16.8] 8.0	80.5 [23.6] 80.5 [23.6] 8.3	75.2 [22.0] 69.9 [20.5] 8.0	74.1 [21.7] 66.3 [19.4] 8.0

### **GROSS SYSTEMS PERFORMANCE DATA—C/H120**

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE (1	)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	4800 [2266]	3575 [1687]	3200 [1510]	4800 [2266]	3575 [1687]	3200 [1510]	4800 [2266]	3575 [1687]	3200 [1510]
		DR ①	.0	.04	.07	.0	.04	.07	.0	.04	.07
0	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	156.5 [45.9] 105.2 [30.8] 7.1	147.3 [43.2] 81.5 [23.9] 6.9	144.5 [42.3] 74.8 [21.9] 6.8	148.9 [43.6] 123.2 [36.1] 7.0	140.2 [41.1] 97.5 [28.6] 6.8	137.5 [40.3] 90.2 [26.4] 6.7	142.7 [41.8] 137.2 [40.2] 6.9	134.4 [39.4] 110.0 [32.2] 6.7	131.8 [38.6] 102.1 [29.9] 6.6
ŬTDO	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	152.4 [44.7] 103.7 [30.4] 7.5	143.5 [42.0] 80.5 [23.6] 7.2	140.7 [41.2] 73.9 [21.7] 7.2	144.9 [42.5] 121.8 [35.7] 7.3	136.4 [40.0] 96.5 [28.3] 7.1	133.8 [39.2] 89.3 [26.2] 7.1	138.7 [40.6] 135.8 [39.8] 7.2	130.5 [38.2] 108.9 [31.9] 7.0	128.0 [37.5] 101.2 [29.7] 7.0
O R D	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	148.2 [43.4] 101.8 [29.8] 7.9	139.5 [40.9] 79.1 [23.2] 7.6	136.8 [40.1] 72.7 [21.3] 7.6	140.6 [41.2] 119.8 [35.1] 7.8	132.4 [38.8] 95.1 [27.9] 7.5	129.9 [38.1] 88.1 [25.8] 7.5	134.5 [39.4] 134.1 [39.3] 7.7	126.6 [37.1] 107.7 [31.6] 7.4	124.2 [36.4] 100.1 [29.3] 7.4
R Y B	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	143.8 [42.1] 99.6 [29.2] 8.3	135.4 [39.7] 77.5 [22.7] 8.1	132.8 [38.9] 71.2 [20.9] 8.0	136.3 [39.9] 117.7 [34.5] 8.2	128.3 [37.6] 93.5 [27.4] 8.0	125.9 [36.9] 86.6 [25.4] 7.9	130.1 [38.1] 130.1 [38.1] 8.1	122.5 [35.9] 106.1 [31.1] 7.9	120.1 [35.2] 98.6 [28.9] 7.8
U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	139.3 [40.8] 97.2 [28.5] 8.8	131.2 [38.4] 75.7 [22.2] 8.5	128.7 [37.7] 69.6 [20.4] 8.5	131.8 [38.6] 115.3 [33.8] 8.7	124.1 [36.4] 91.7 [26.9] 8.4	121.7 [35.7] 84.9 [24.9] 8.3	125.6 [36.8] 125.6 [36.8] 8.6	118.2 [34.6] 104.2 [30.5] 8.3	116.0 [34.0] 97.0 [28.4] 8.2
Ė M P E	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	134.7 [39.5] 94.4 [27.7] 9.3	126.8 [37.2] 73.5 [21.5] 9.0	124.4 [36.4] 67.6 [19.8] 8.9	127.2 [37.3] 112.5 [33.0] 9.2	119.7 [35.1] 89.5 [26.2] 8.9	117.4 [34.4] 82.9 [24.3] 8.8	121.0 [35.5] 121.0 [35.5] 9.1	113.9 [33.4] 102.1 [29.9] 8.8	111.7 [32.7] 95.0 [27.8] 8.7
R A T U	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	129.9 [38.1] 91.3 [26.8] 9.8	122.3 [35.8] 71.1 [20.8] 9.5	120.0 [35.2] 65.4 [19.2] 9.4	122.4 [35.9] 109.4 [32.1] 9.7	115.2 [33.8] 87.1 [25.5] 9.4	113.0 [33.1] 80.7 [23.6] 9.3	116.2 [34.0] 116.2 [34.0] 9.6	109.4 [32.1] 99.7 [29.2] 9.3	107.3 [31.4] 92.8 [27.2] 9.2
R E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	125.0 [36.6] 87.8 [25.7] 10.4	117.6 [34.5] 68.3 [20.0] 10.1	115.4 [33.8] 62.9 [18.4] 10.0	117.4 [34.4] 105.8 [31.0] 10.3	110.5 [32.4] 84.3 [24.7] 10.0	108.4 [31.8] 78.2 [22.9] 9.9	111.2 [32.6] 111.2 [32.6] 10.2	104.7 [30.7] 96.9 [28.4] 9.9	102.7 [30.1] 90.3 [26.5] 9.8
[ان]	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	119.9 [35.1] 84.0 [24.6] 11.0	112.9 [33.1] 65.4 [19.2] 10.6	110.7 [32.4] 60.1 [17.6] 10.5	112.3 [32.9] 102.0 [29.9] 10.9	105.7 [31.0] 81.3 [23.8] 10.5	103.7 [30.4] 75.4 [22.1] 10.4	106.1 [31.1] 106.1 [31.1] 10.7	99.9 [29.3] 93.9 [27.5] 10.4	98.0 [28.7] 87.5 [25.6] 10.3

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

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power —KW input

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

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

	7.1]	H	44	4
N	3 [2237.1]	ВК65Н	1VP-44	3
				2
				-
				9
				2
	1.4]	H	44	4
M	2 [1491.4]	ВК90Н	1VP-44	3
				2
				-
				9
				2
	2 [1491.4]	BK110H	1VP-44	4
	2 [14	BK1	11	3
				2
				1
Drive Package	Motor H.P. [W]	Blower Sheave	Motor Sheave	Turns Open

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

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

9/9

RPM

# AIRFLOW PERFORMANCE—7.5 TON [26.4 kW]—60 Hz—SIDEFLOW (Cont.)

Airflow CFM [L/s]					Comp	<b>Component Airflow Resistance</b>	lesistance	
	Ι	Airlow Correction Factors*		Wet Coil	Downflow	Downflow Economizer RA Damper Open	Horizontal Economizer RA Damper Open	Concentric Grill RXRN-FA65 or RXRN-FA75 & Transition RXMC-CC04
	Total MBH	Sensible MBH	Power kW			Resistance — Inches of Water [kPa]	ter [kPa]	
2400 [1133]	76:0	0.87	0.98	0.09 [.02]	0.08 [.02]	0.10 [.02]	0.10 [.02]	0.13 [.03]
2500 [1180]	76:0	06:0	0.98	0.10 [.02]	0.08 [.02]	0.10 [.02]	0.10 [.02]	0.15 [.04]
2600 [1227]	0.98	0.92	0.99	0.10 [.02]	0.09 [.02]	0.11 [.03]	0.11 [.03]	0.17 [.04]
2700 [1274]	0.98	0.94	0.99	0.11 [.03]	0.09 [.02]	0.11 [.03]	0.11 [.03]	0.19 [.05]
2800 [1321]	0.99	0.97	0.99	0.11 [.03]	0.10 [.02]	0.12 [.03]	0.12 [.03]	0.21 [.05]
2900 [1368]	1.00	0.99	1.00	0.12 [.03]	0.10 [.02]	0.12 [.03]	0.12 [.03]	0.23 [.06]
3000 [1416]	1.00	1.02	1.00	0.12 [.03]	0.11 [.03]	0.13 [.03]	0.13 [.03]	0.25 [.06]
3100 [1463]	1.01	1.04	1.00	0.13 [.03]	0.11 [.03]	0.13 [.03]	0.13 [.03]	0.28 [.07]
3200 [1510]	1.02	1.06	1.01	0.13 [.03]	0.11 [.03]	0.14 [.03]	0.14 [.03]	0.31 [.08]
3300 [1557]	1.02	1.06	1.01	0.13 [.03]	0.11 [.03]	0.14 [.03]	0.14 [.03]	0.34 [.08]
3400 [1604]	1.02	1.06	1.01	0.13 [.03]	0.11 [.03]	0.15 [.04]	0.15 [.04]	0.37 [.09]
3500 [1652]	1.02	1.06	1.01	0.14 [.03]	0.11 [.03]	0.15 [.04]	0.15 [.04]	0.40 [.10]
3600 [1699]	1.02	1.06	1.01	0.14 [.03]	0.11 [.03]	0.15 [.04]	0.15 [.04]	0.44 [.11]

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

## AIRFLOW PERFORMANCE—10 TON [35.1 kW]—60 Hz—SIDEFLOW

Name	Model RLRL-C120         Voltage 208/230, 460, 575 — 3 Phase 60 Hz         External Static Pressure—Inches of Water [kPa]           0.1 [.02]         0.3 [.07]         0.4 [.10]         0.5 [.12]         0.6 [.15]         0.7 [.17]         0.8 [.20]         0.9 [.22]         1.1 [.27]         1.2 [.30]         1.4 [.35]         1.5 [.37]         1.6 [.40]         1.7 [.42]         1.8 [.45]         1.9 [.47]         2.0 [.50]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	0 Hz External Static Pressure—Inches o 0.7 [.17]   0.8 [.20]   0.9 [.22]   1.0 [.25]   1.1 [.27]	External Static Pressure—Inches of Water [kPa]	External Static Pressure—Inches of Water [kPa] 1.8 [.20] [0.9 [.22]   1.0 [.25]   1.1 [.27]   1.2 [.30]   1.3	lemal Static Pressure—Inches of Water [kPa]	tiic Pressure—Inches of Water [kPa]	ssure—Inches of Water [kPa]	-Inches of Water [kPa]	of Water [kPa]	r [kPa] .30] 1.3	ს:	[32]	1.4[	35] 1.5	[.37]	1.6 [.40]	1.7[./	1.8	.45] 1.	9 [.47]	2.0[.5
971         1774         995         1862         1019         1930         1043         2009         1065         2089         1087         1095         1052         2039         1087         1073         2180         1055         2041         1130         2230         1130         2332           2 990         1945         1013         2027         1037         2111         1059         2295         1082         2284         1123         2450         1143         2536           3 999         2037         1023         2122         1046         2295         1089         2382         1110         2469         1133         2537         1150         2646         1143         2537         1150         2646         1143         2537         1150         2646         1143         2537         1150         2646         1143         2537         1150         2648         1148         2537         1150         2648         1148         2537         1150         2648         1148         2537         1140         2648         1148         2537         1150         2648         1148         2658         1149         2658         1141         2741         1149         2658<	RPM W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	M W RPM W RPM W RPM W RPM W	W W RPM W RPM W RPM W RPM W RPM W	IPM W RPM W RPM W RPM W RPM W	RPM W RPM W RPM W RPM W	RPM W RPM W RPM W	W RPM W RPM W	PM W RPM W	RPM W	≥	W RPM	M W	RPM	W RP	W F	N M	RPM	W RPM	WR	M W	RPM \
777         980         1857         1004         1937         1028         2018         1051         1010         1073         2182         1095         2264         1116         2348         1136         2431           556         990         1945         1012         2207         1013         2111         1059         2195         1081         2279         1103         2364         1123         2450         1143         2536           558         999         2037         1022         12022         1064         2295         1088         2489         1118         2577         1150         2646           448         1019         2237         1041         2232         1054         2311         1076         2400         1098         2489         1118         2579         1118         2579         1118         2579         1118         2579         1188         2579         1188         2579         1188         2579         1188         2579         1188         258         1188         258         1188         258         1188         258         1188         258         1188         258         1188         258         1188         1188 <td< td=""><td>       691   1029   721   1101   752   1173   781   1246   810   1320   838   1394   866   1469   893   1544   920   1620   946   1697  </td><td>      691   1029  721   1101  752   1173  781   1246  810   1320  838   1394  866   1469  893   1544  920   1620 </td><td>  —   691  1029  721  1101  752  1173  781  1246  810  1320  838  1394  866  1469<mark> </mark> 893  1544  920  1620 </td><td>810   1320   838   1394   866   1469   893   1544   920   1620</td><td>810   1320   838   1394   866   1469   893   1544   920   1620</td><td>810   1320   838   1394   866   1469   893   1544   920   1620</td><td>810   1320   838   1394   866   1469   893   1544   920   1620</td><td>810   1320   838   1394   866   1469   893   1544   920   1620</td><td>810   1320   838   1394   866   1469   893   1544   920   1620</td><td>838 1394 866 1469 893 1544 920 1620</td><td>1394 866 1469 893 1544 920 1620</td><td>893   1544   920   1620</td><td>893   1544   920   1620</td><td>1544 920 1620</td><td>1620</td><td></td><td>16</td><td></td><td>71 1774</td><td>1 995 1</td><td>852 101</td><td>9 1930 1</td><td>043 2009</td><td>1065 2</td><td>089 1 087</td><td>216911</td><td>09 2250</td><td>1130 23</td></td<>	691   1029   721   1101   752   1173   781   1246   810   1320   838   1394   866   1469   893   1544   920   1620   946   1697	691   1029  721   1101  752   1173  781   1246  810   1320  838   1394  866   1469  893   1544  920   1620	—   691  1029  721  1101  752  1173  781  1246  810  1320  838  1394  866  1469 <mark> </mark> 893  1544  920  1620	810   1320   838   1394   866   1469   893   1544   920   1620	810   1320   838   1394   866   1469   893   1544   920   1620	810   1320   838   1394   866   1469   893   1544   920   1620	810   1320   838   1394   866   1469   893   1544   920   1620	810   1320   838   1394   866   1469   893   1544   920   1620	810   1320   838   1394   866   1469   893   1544   920   1620	838 1394 866 1469 893 1544 920 1620	1394 866 1469 893 1544 920 1620	893   1544   920   1620	893   1544   920   1620	1544 920 1620	1620		16		71 1774	1 995 1	852 101	9 1930 1	043 2009	1065 2	089 1 087	216911	09 2250	1130 23
862 990 1945 1013 2027 1037 2111 1059 2195 1081 2279 1103 2364 1123 2450 1143 2533 993 2037 1023 2122 1045 2106 8255 1088 2382 11110 2469 1131 2557 1150 2644 1089 2137 1023 2122 1054 2311 1076 2400 1098 2489 11118 2579 1138 2670 1158 277 114 218 1019 2237 1041 2328 1062 2418 1085 2510 1106 2602 1126 2694 1146 2787 1165 288 253 1028 2345 1051 2488 1073 2531 1094 2625 1114 2719 1134 2811 116 283 1062 2488 1073 2531 1094 2625 1114 2719 1134 2819 116 2839 117 289 117	—   —   672   1014   703   1087   734   1161   764   1236   793   1312   822   1388   850   1465   877   1542   904   1620   930   1698   955   1	672   1014   703   1087   734   1161   764   1236   793   1312   822   1388   850   1465   877   1542   904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	904   1620   930   1698   955	1620 930 1698 955	1698 955	955	_	1777 9	30 1857	7 1004 1	937 102	8 2018 1	051 2100	1073 2	182 1095	226411	162348	1136 24
1955   399   2037   1023   2122   1045   2208   1068   2295   1089   2382   1110   2469   1131   2557   1150   2644   2008   2009   2	—   —   686   1074   717   1150   747   1227   776   1304   805   1382   833   1461   861   1540   888   1620   914   1700   940   1781   965	686   1074   717   1150   747   1227   776   1304   805   1382   833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	833   1461   861   1540   888   1620   914   1700   940   1781   965	1461 861 1540 888 1620 914 1700 940 1781 965	1540 888 1620 914 1700 940 1781 965	914 1700 940 1781 965	914 1700 940 1781 965	1700 940 1781 965	1781 965	965		1862 9	30 1945	7 1013 2	027 103	7 2111 1	059 2195	1081	279 1103	236411	23 2450	1143 25
1961   985   2048   1009   2135   1032   2222   1054   2311   1076   2400   1098   2489   1118   2579   1138   2670   1158   2765   2055   995   2148   1019   2237   1041   2328   1065   2418   1085   2511   1010   2602   1126   2694   146   2787   1165   2887   2165   2887   2165   2887   2165   2141   2719   1134   2881   1146   2887   2165   2887   2165   2887   2165   2188   218	3500 [1652]   668   1061   699   1139   730   1218   759   1297   789   1377   817   1457   845   1538   872   1620   899   1702   925   1786   950   1869   975	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	845   1538   872   1620   899   1702   925   1785   950   1869	1538 872 1620 899 1702 925 1785 950 1869	1620 899 1702 925 1785 950 1869	899 1702 925 1785 950 1869	925 1785 950 1869	1785 950 1869	1869			1953	39 2037	7 1023 2	122 104	5 2208 1	068 2295	1089 2	382 1110	246911	31 2557	1150 26
1883         946         1971         971         2059         995         2148         1019         2237         1041         2238         1063         2510         1106         2602         1126         2694         1146         2787         1165         2881           1981         957         2071         982         2162         1006         2253         1028         2345         1051         2381         1094         2625         1114         2719         1134         2814         1154         2814         1152         2824         1161         2363         1081         2828         1082         2648         1107         2648         1103         2745         1132         2869         1161         2839         1161         2839         1161         2839         1161         2839         1161         2839         1161         2839         1161         2839         1161         2839         1162         2838         1070         2838         1080         2828         1090         2828         1103         2828         1080         1113         2803         1119         3239         1149         3239         1148         3239         1149         3239         1149 <td>3600 [1699] 682 [1129] 713 [1210] 743 [1291] 772 [1373] 801 [1455] 829 [1538] 857 [1621] <u>884 [1705]</u> 910 [1790] 936 [1875] 961 [1961] 98</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>857   1621   884   1705   910   1790   936   1875   961</td> <td>936  1875   961</td> <td>936  1875   961</td> <td>936  1875   961</td> <td>936  1875   961</td> <td>1875 961</td> <td>961  1961   98</td> <td>11 98</td> <td>5</td> <td>2048 10</td> <td>09 2135</td> <td>1032</td> <td>222 105</td> <td>4 2311 1</td> <td>076 2400</td> <td>1098 2</td> <td>489 1118</td> <td>257911</td> <td>38 2670</td> <td>1158 27</td>	3600 [1699] 682 [1129] 713 [1210] 743 [1291] 772 [1373] 801 [1455] 829 [1538] 857 [1621] <u>884 [1705]</u> 910 [1790] 936 [1875] 961 [1961] 98	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	857   1621   884   1705   910   1790   936   1875   961	936  1875   961	936  1875   961	936  1875   961	936  1875   961	1875 961	961  1961   98	11 98	5	2048 10	09 2135	1032	222 105	4 2311 1	076 2400	1098 2	489 1118	257911	38 2670	1158 27
1094 2625 1114 2719 1134 2814 1154 2910 1172 3 1103 2745 1123 2842 1142 2939 1161 3037 — 1112 2870 1132 2969 1151 3069 1169 3170 — 1121 3000 1140 3102 1159 3204 — 1130 3135 1149 3239 1168 3344 — 1140 3420 1168 3382 — 1140 3420 1168 3529 — 1169 3725 — 1169 3725 — 1169 3725 — 1169 3726 — 1169 3726 — 1169 3726 — 1169 3727 — 1169 3727 — 1169 3728 — 1169 37	3700 [1746]   696   1202   727   1285   756   1369   785   1453   814   1538   842   1623   869   1709   895   1796   921   1883   946   1971   971   2059   99	869   1709   895   1796   921	869   1709   895   1796   921	869   1709   895   1796   921	869   1709   895   1796   921	869   1709   895   1796   921	869   1709   895   1796   921	869   1709   895   1796   921	869   1709   895   1796   921	895 1796 921	1796 921	921 1883 946 1971 971 2059 99	3 946  1971  971  2059   99	1971 971 2059 99	971  2059  99	6 6	35	2148 10	19 2237	7 1041 2	328 106	3 2418 1	085 2510	1106 2	602 1126	269411	46 2787	1165 28
1103 2745 1123 2842 1142 2939 1161 3037 — 1112 2870 1132 2969 1151 3069 1169 3170 — 1112 1300 1140 3129 1168 3344 — — 1140 3275 1168 3382 — — — — 1140 3275 1168 3382 — — — — 1149 3275 1168 3570 — — — — — 1169 3775 — — — — — — — — — 1169 3775 — — — — — — — — — — — — — — — — — —	3800 [1793] 711   1281 741   1366 770   1452   799   1539  827   1626   854   1714   881   180 <u>2</u>   907   1891   933   1981   957   2071   982   2162	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	881  1802   907  1891   933   1981   957   2071   982	907  1891   933  1981   957  2071   982	1891   933   1981   957   2071   982	933  1981   957  2071   982	957 2071 982	2071 982		12	005	2253 10	28 2345	1051	438 107	3 2531 1	094 2625	1114 2	719 1134	281411	542910	1172 30
1112 2870 1132 2969 1151 3069 1169 3170 ————————————————————————————————————	3900 [1840] 725 1364 755 1451 784 1540 812 1629 840 1719 867 1809 883 1900 919 1991 944 2083 969 [2176] 993 [2269	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	893   1900   919   1991   944   2083   969   2176   993	919   1991   944   2083   969   2176   993	1991 944 2083 969 2176 993	944 2083 969 2176 993	969 2176 993	2176 993	393 22 <b>6</b> 9	6	1016	2363 10	38 2458	1061	553 108	2 2648 1	103 2745	1123 2	842 1142	293911	61 3037	' 
1121     3000     1140     3102     1159     3204     —     —     —       1130     3135     1149     3239     1168     3344     —     —     —       1140     3275     1158     3382     —     —     —     —       1149     3420     1168     3529     —     —     —     —       1159     3570     —     —     —     —     —       1169     3725     —     —     —     —       —     —     —     —     —     —       —     —     —     —     —     —	4000 [1888] 740 [1452] 769 [1542] 797 [1633   825 [1724] 853 [1817] 879 [1909] 905 [2003] 931 [2097] 956 [2191] 980 [2286] 1003 [2382	902	902	902	902	902	902	902	902	5  2003  931  2097  956  2191  980  2286 1003 2382	931  2097  956  2191  980  2286 1003 2382	956  2191   980  2286  1003  2382	1   980  2286  1003  2382	2286 1003 2382	003 2382	2	1026	2478 10	49 2575	1070 2	673 109	1 2771 1	112 2870	1132 2	969 1151	306911	693170	
1130     3135     1149     3239     1168     3344     —     —     —       1140     3275     1158     3382     —     —     —     —       1149     3420     1168     3529     —     —     —     —       1159     3570     —     —     —     —     —       1169     3725     —     —     —     —       —     —     —     —     —     —       —     —     —     —     —     —       —     —     —     —     —     —	4100 [1935] 754 1545 783 1637 811 1731 839 1825 866 1919 892 2015 918 2110 943 2207 967 2304 991 2402 1014 2500	918	918	918	918	918	918	918	918		943  2207   967  2304   991  2402   1014   2500	967 2304 991 2402 1014 2500	14 991 2402 1014 2500	2402 1014 2500	014 2500	0	1037	2599 10	59 2698	3 1080 2	798 110	1 2899 1	121 3000	1140 3	102 1159	3204 -	1	÷
1140     3275     1158     3382     —     —     —     —       1149     3420     1168     3529     —     —     —     —       1159     3570     —     —     —     —     —       1169     3725     —     —     —     —       —     —     —     —     —     —       —     —     —     —     —     —       —     —     —     —     —     —	4200 [1982]   769   1643   797   1738   825   1834   852   1930   879   2027   905   2125   930   2223   955   2322   979   2422   1003   2522   1025   2622	930	930	930	930	930	930	930	930	7   2223   955   2322   979   2422   1003   2522   1025   2622   1	955  2322  979  2422  1003  2522  1025  2622  1	979 2422 1003 2522 1025 2622 1	2 1003 2522 1025 2622 1	2522 1025 2622 1	025 2622 1	7	048	2724 10	69 2826	3 1090 2	928 111	1 3031	130 3135	11493	239 1168		-	-
1149 3420     1168 3529     —     —     —       1159 3570     —     —     —     —       1169 3725     —     —     —     —       —     —     —     —     —       —     —     —     —     —       —     —     —     —     —	4300 [2029] 784 1746 812   1843   839   1942   866   2041 892   2140   918   2240   943   2341   967   2442   991   2544   1014   2647   1037   2750	က္	က္	က္	က္	က္	က္	က္	က္	3  2341  967  2442  991  2544  1014  2647  1037  2750	967  2442  991  2544  1014  2647  1037  2750	991  2544   1014   2647   1037   2750	4 1014 2647 1037 2750	2647 1037 2750	037 2750	0	1059	2854 10	80 2958	3 1100 3	063 112	0 3169 1	140 3275	1158 3		_	_	_
1159     3570     —     —     —     —     —       1169     3725     —     —     —     —       —     —     —     —     —       —     —     —     —     —       —     —     —     —     —	4400 [2076] 799 1854 826 1954 854 2055 <u>880 2156</u> 906 [2258 931 2361 956 [2464 980 2568 1003 [2672] 1026 [2777   1048 [2883 ]	926	926	926	926	926	926	926	926	3  2464  980  2568 1003 2672 1026 2777 1048 2883	980  2568  1003  2672   1026  2777   1048  2883	1003 2672 1026 2777 1048 2883	.2 1026 2777 1048 2883	2777 1048 2883	048 2883	'n	1070	2989 10	90 <b> </b> 3096	3 1111 3	203 113	0 3311 1	149 3420	1168 3	1	_		_
1169 3725 — — — — — — — — — — — — — — — — — — —	4500 [2123] 814 1967 841   2069 868   2173 894   2277   920   2381 944   2486   969   2592 992   2698   1015   2805   1038   2912   1059   3021	696	696	696	696	696	696	696	696	9   2592   992   2698   1015   2805   1038   2912   1059   3021	992  2698  1015  2805   1038  2912   1059  3021	1015 2805 1038 2912 1059 3021	1038 2912 1059 3021	2912 1059 3021	059 3021	<u>.</u>	1081	3129 11	01 3236	1121 3	348 114	0 3459 1	159 3570		Ė	-	-	-
	4600 [2171] 829   2085   856   2190   882   2296   908   2402   933   2509   958   2616   982   2725   1005   2833   1028   2943   1050   3053   1071   3163   1092   3274   1112   3386   1131   3499   1150   3612   1169   3725	085 856 2190 882 2296 908 2402 933 2509 958 2616 982 2725 1005 2833 1028 2943 1050 3053 1071 3163	2190 <u>  882   2296</u>   908   2402  933   2509  958   2616  982   2725 1005 2833 1028 2943 1050 3053 1071   3163	<u>  882  2296</u>   908  2402  933  2509  958  2616  982  2725 1005 2833 1028 2943  1050 3053 1071 3163	<u>296</u> 908  2402  933  2509  958  2616  982  2725 1005 2833 1028 2943  1050 3053  1071 3163	2402  933  2509  958  2616  982  2725 1005 2833 1028 2943 1050  3053  1071  3163	933  2509  958  2616  982  2725 1005 2833 1028 2943 1050 3053 1071  3163	39  958  2616  982  2725 1005 2833 1028 2943 1050 3053 1071 3163	<u>2616  982  2725 1005 2833 1028 2943 1050 3053 1071 3163 </u>	2  2725 1005 2833 1028 2943 1050 3053 1071 3163	005 2833 1028 2943 1050 3053 1071 3163	1028 2943 1050 3053 1071 3163	3 1050 3053 1071 3163	3053 1071 3163	071 3163	33	1092	3274 11	12 3386	3 1131 3	1199 115	0  3612   1	169 3725		Ė	Ė	_	Ė
 	4700 [2218] 844 [2208] 871 [2315] 897 [2424] 922 [2532] 947 [2642] 971 [2752] 995 [2862] 1018 [2974] 1040 [3086] 1062 [3198] 1083 [3311] 1103 [3471] 1103 [3478] 1142 [3654] 1141 [3769]	208   871   2315   897   2424   922   2532   947   2642   971   2752   995   2862   1018   2974   1040   3086   1062   3198   1083   3311	<u>    2315   897   2424   922   2532   947   2642   971   2752   995   2862   1018   2974   1040   3086   1062   3198   1083   3311   </u>	897   2424   922   2532   947   2642   971   2752   995   2862   1018   2974   1040   3086   1062   3198   1083   3311	424   922   2532   947   2642   971   2752   995   2862   1018   2974   1040   3086   1062   3198   1083   3311	.  2532  947  2642  971  2752  995  2862 1018 2974 1040 3086 1062  3198 1083  3311	947  2642  971  2752  995  2862 1018 2974 1040 3086 1062 3198 1083  3311	42   971   2752   995   2862   1018   2974   1040   3086   1062   3198   1083   3311	2752  995  2862 1018 2974 1040 3086 1062 3198 1083 3311	5  2862 1018 2974 1040 3086 1062 3198 1083 3311	018 2974 1040 3086 1062 3198 1083 3311	1040 3086 1062 3198 1083 3311	1062 3198 1083 3311	3198 1083 3311	083 3311	_	1103	3425 11	23 3536	1142 3	854 116	1 3769	_	I	_	_	_	_
	4800 [2265] 860 [2336] 886 [2446] 912 [2557] 937 [2668] 961 [2780] 985 [2892] 1008 [3005] 1031 [3119] 1053 [3233] 1074 [3348] 1095 [3464] 1115 [3580] 1134 [3697] 1153 [3814] 1171 [3932]	336 886 2446 912 2557 937 2668 961 2780 985 2892 1008 3005 1031 3119 1053 3233 1074 3348 1095 3464	2446 912 2557 937 2668 961 2780 985 2892 1008 3005 1031 3119 1053 3233 1074 3348 1095 3464	912   2557   937   2668   961   2780   985   2892   1008   3005   1031   3119   1053   3233   1074   3348   1095   3464	557   937   2668   961   2780   985   2892   1008   3005   1031   3119   1053   3233   1074   3348   1095   3464	7   2668   961   2780   985   2892   1008   3005   1031   3119   1053   3233   1074   3348   1095   3464	961 2780 985 2892 1008 3005 1031 3119 1053 3233 1074 3348 1095 3464	30 985 2892 1008 3005 1031 3119 1053 3233 1074 3348 1095 3464	<u> </u>	8 3005 1031 3119 1053 3233 1074 3348 1095 3464	031 3119 1053 3233 1074 3348 1095 3464	1053 3233 1074 3348 1095 3464	3 1074 3348 1095 3464	3348 1095 3464	095 3464	4	1115	3580 11	34 3697	7 1153 3	814 117	1 3932		I	•	•		

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package			_						M			
Motor H.P. [W]			2 [1491.4]	91.4]					3 [2237.1]	7.1]		
Blower Sheave			BKS	ВК90Н					BK65H	Ŧ		
Motor Sheave			1VP-44	-44					1VP-44	44		
Turns Open	1	2	က	4	5	9	-	2	3	4	2	9
RPM	298	822	785 747	747	902	299	1160	1117	1160 1117 1068 1014 960	1014	960	902
MOTEON 4 Party below and amountained and amountained to MOTEON	400 01100	97.0	i annoqu	. de la de	١.							

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

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

# AIRFLOW PERFORMANCE—10 TON [35.1 kW]—60 Hz—SIDEFLOW (Cont.)

						Compon	<b>Component Airflow Resistance</b>	Resistance		
Airflow CFM [L/s]	Airl	Airflow Correction Factors*	*	Wet Coil	Downflow	Downflow Economizer RA Damper Open	Horizontal Economizer RA Damper Open	Concentric Grill RXRN-FA665 or RXRN-FA75 & Transition RXMC-CD04	Concentric Grill RXRN-AA61 or RXRN-AA71& Transition RXMC-CE05	Concentric Grill RXRN-AA66 or RXRN-AA76 & Transition RXMC-CF06
	Total MBH	Sensible MBH	Power kW			Resis	Resistance — Inches of Water [kPa]	ater [kPa]		
3200 [1510]	96.0	0.87	0.98	0.06 [.01]	0.05 [.01]	0.09 [.02]	0.05 [.01]	0.31 [.08]	1	1
3300 [1557]	0.97	0.88	0.99	0.07 [.02]	0.05 [.01]	0.10 [.02]	0.05 [.01]	0.34 [.08]	I	1
3400 [1604]	0.97	06:0	0.99	0.07 [.02]	0.05 [.01]	0.10 [.02]	0.06 [.01]	0.37 [.09]	I	I
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.06 [.01]	0.11 [.03]	0.06 [.01]	I	I	1
3600 [1699]	0.98	0.93	0.99	0.08 [.02]	0.06 [.01]	0.11 [.03]	0.06 [.01]	I	0.16 [.04]	I
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.06 [.01]	0.12 [.03]	0.06 [.01]	I	0.18 [.04]	I
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.07 [.02]	0.12 [.03]	0.07 [.02]	I	0.19 [.05]	I
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.07 [.02]	0.13 [.03]	0.07 [.02]	I	0.20 [.05]	1
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.07 [.02]	0.13 [.03]	0.07 [.02]	I	0.21 [.05]	ı
4100 [1935]	1.00	1.02	1.01	0.09 [.02]	0.08 [.02]	0.14 [.03]	0.07 [.02]	I	0.23 [.06]	I
4200 [1982]	1.01	1.04	1.01	0.09 [.02]	0.08 [.02]	0.14 [.03]	0.08 [.02]	I	0.24 [.06]	ı
4300 [2029]	1.01	1.06	1.01	0.10 [.02]	0.08 [.02]	0.15 [.04]	0.08 [.02]	I	0.25 [.06]	I
4400 [2076]	1.02	1.07	1.02	0.10 [.02]	0.08 [.02]	0.15 [.04]	0.08 [.02]	I	0.27 [.07]	I
4500 [2123]	1.02	1.09	1.02	0.10 [.02]	0.09 [.02]	0.16 [.04]	0.09 [.02]	I	I	I
4600 [2171]	1.03	1.11	1.02	0.10 [.02]	0.09 [.02]	0.16 [.04]	0.09 [.02]	1	1	0.30 [.07]
4700 [2218]	1.03	1.12	1.03	0.11 [.03]	0.09 [.02]	0.17 [.04]	0.09 [.02]	-	-	0.31 [.08]
4800 [2265]	1.04	1.14	1.03	0.11 [.03]	0.10 [.02]	0.17 [.04]	0.10 [.02]	1	1	0.32 [.08]
*Multiply correction factor times gross performance data-resulting sensible capacity	or times gross perfor	mance data-resulting		cannot exceed total capacity.	capacity.			_	] Designates Metric Conversions	ric Conversions

			ELECT	RICAL DA	TA – RLR	L- SERIES	<b>-</b>			
		CO90CL HO90CR	CO90CM HO90CS	CO9OCN HO9OCT	CO90DL HO90DR	CO90DM HO90DS	CO90DN HO90DT	C090YL	C090YM	CO90YN
ľ	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	518-632	518-632	518-632
atio	Volts	208/230	208/230	208/230	460	460	460	575	575	575
ı.	Minimum Circuit Ampacity	44/44	44/44	49/49	21	21	24	16	16	21
Unit Information	Minimum Overcurrent Protection Device Size	50/50	50/50	60/60	25	25	30	20	20	25
N	Maximum Overcurrent Protection Device Size	50/50	50/50	60/60	25	25	30	20	20	25
	No.	2	2	2	2	2	2	2	2	2
	Volts	200/240	200/240	200/240	480	480	480	600	600	600
-	Phase	3	3	3	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
. oc	HP, Compressor 1	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
Compressor Motor	Amps (RLA), Comp. 1	13.6/13.6	13.6/13.6	13.6/13.6	6.1	6.1	6.1	4.2	4.2	4.2
dwo	Amps (LRA), Comp. 1	83.1/83.1	83.1/83.1	83.1/83.1	41	41	41	33	33	33
ت	HP, Compressor 2	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
	Amps (RLA), Comp. 2	13.6/13.6	13.6/13.6	13.6/13.6	6.1	6.1	6.1	4.2	4.2	4.2
	Amps (LRA), Comp. 2	83.1/83.1	83.1/83.1	83.1/83.1	41	41	41	33	33	33
or	No.	2	2	2	2	2	2	2	2	2
Mot	Volts	208/230	208/230	208/230	460	460	460	575	575	575
sor	Phase	1	1	1	1	1	1	1	1	1
Compressor Motor	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
m m	Amps (FLA, each)	2.4/2.4	2.4/2.4	2.4/2.4	1.4	1.4	1.4	1	1	1
ت	Amps (LRA, each)	4.7/4.7	4.7/4.7	4.7/4.7	2.4	2.4	2.4	1.5	1.5	1.5
	No.	1	1	1	1	1	1	1	1	1
Fan	Volts	208/230	208/230	208/230	460	460	460	575	575	575
ato.	Phase	3	3	3	3	3	3	3	3	3
Evaporator Fan	HP	2	2	3	2	2	3	2	2	3
Eva	Amps (FLA, each)	8/8	8/8	13/13	4	4	7	4	4	8
	Amps (LRA, each)	56/56	56/56	74.5/74.5	28	28	38.1	19	19	20

		ELECTRI	CAL DATA – F	RLRL- SERIES	<u> </u>		
		C120CL H120CR	C120CM H120CS	C120DL H120DR	C120DM H120DS	C120YL	C120YM
_	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
atio	Volts	208/230	208/230	460	460	575	575
Ë	Minimum Circuit Ampacity	49/49	54/54	23	26	18	23
Unit Information	Minimum Overcurrent Protection Device Size	60/60	60/60	25	30	20	30
<b>n</b>	Maximum Overcurrent Protection Device Size	60/60	60/60	25	30	20	30
	No.	2	2	2	2	2	2
	Volts	200/240	200/240	480	480	575	575
, i	Phase	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450
jo –	HP, Compressor 1	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
Compressor Motor	Amps (RLA), Comp. 1	15.9/15.9	15.9/15.9	7.1	7.1	5.1	5.1
<u> </u>	Amps (LRA), Comp. 1	110/110	110/110	52	52	39.5	39.5
ے ت	HP, Compressor 2	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
	Amps (RLA), Comp. 2	15.9/15.9	15.9/15.9	7.1	7.1	5.1	5.1
	Amps (LRA), Comp. 2	110/110	110/110	52	52	39.5	39.5
٥٢	No.	2	2	2	2	2	2
Mot	Volts	208/230	208/230	460	460	575	575
Compressor Motor	Phase	1	1	1	1	1	1
res	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
Ö	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.5	1.5
	No.	1	1	1	1	1	1
Fan	Volts	208/230	208/230	460	460	575	575
Į.	Phase	3	3	3	3	3	3
Evaporator Fan	HP	2	3	2	3	2	3
Eva	Amps (FLA, each)	8/8	13/13	4	7	4	8
	Amps (LRA, each)	56/56	74.5/74.5	28	38.1	19	20

		ELECTRI	CAL DATA – F	RLRL- SERIES	S		
		C180CL H180CR	C180CM H180CS	C180DL H180DR	C180DM H180DS	C180YL	C180YM
_	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
ig	Volts	208/230	208/230	460	460	575	575
Ë	Minimum Circuit Ampacity	75/75	79/79	38	40	29	30
Unit Information	Minimum Overcurrent Protection Device Size	90/90	90/90	45	45	35	35
•	Maximum Overcurrent Protection Device Size	100/100	100/100	50	50	35	35
	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
<b>a</b> [	Phase	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
res	Amps (RLA), Comp. 1	25/25	25/25	12.8	12.8	9.6	9.6
Compressor Motor	Amps (LRA), Comp. 1	164/164	164/164	100	100	78	78
<b>ర</b> [	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	25/25	25/25	12.8	12.8	9.6	9.6
	Amps (LRA), Comp. 2	164/164	164/164	100	100	78	78
<u>.</u>	No.	3	3	3	3	3	3
Mot Mot	Volts	208/230	208/230	460	460	575	575
Compressor Motor	Phase	1	1	1	1	1	1
res	HP	1/3	1/3	1/3	1/3	1/3	1/3
<u>ב</u> ר	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
3	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.1	2.4	1.8	1.8
	No.	1	1	1	1	1	1
Fan	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
30ra	HP	3	5	3	5	3	5
Evaporator Fan	Amps (FLA, each)	11.5/11.5	14.9/14.9	4.6	6.6	3.5	5.3
	Amps (LRA, each)	74.5/74.5	82.6/82.6	38.1	46.3	20	39.4

		ELECTRI	CAL DATA – F	RLRL- SERIES	S		
		C240CL H240CR	C240CM H240CS	C240DL H240DR	C240DM H240DS	C240YL	C240YM
_	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	95/95	103/103	49	52	37	39
Unit Information	Minimum Overcurrent Protection Device Size	110/110	125/125	60	60	40	45
n	Maximum Overcurrent Protection Device Size	110/110	125/125	60	60	45	50
	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
	Phase	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450
, j	HP, Compressor 1	10	10	10	10	10	10
Compressor Motor	Amps (RLA), Comp. 1	30.1/30.1	30.1/30.1	16.7	16.7	12.2	12.2
	Amps (LRA), Comp. 1	225/225	225/225	114	114	80	80
<u> </u>	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	27.6/27.6	27.6/27.6	12.8	12.8	9.6	9.6
	Amps (LRA), Comp. 2	191/191	191/191	100	100	78	78
5	No.	6	6	6	6	6	6
Mot	Volts	208/230	208/230	460	460	575	575
SOL	Phase	1	1	1	1	1	1
Compressor Motor	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
Ö	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.8	1.8
	No.	1	1	1	1	1	1
l Ba [	Volts	208/230	208/230	460	460	575	575
ate	Phase	3	3	3	3	3	3
Evaporator Fan	HP	5	7 1/2	5	7 1/2	5	7 1/2
Eval	Amps (FLA, each)	14.7/14.7	23.1/23.1	6.6	9.6	5.3	7.8
	Amps (LRA, each)	82.6/82.6	136/136	46.3	67	39.4	53.8

			208/240	208/240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	ASE, 60 HZ, AU	KILIARY ELECTR	IIC HEATER KIT	TS CHARACTER	ISTICS AND APP	PLICATION			
			Single Power S	Single Power Supply for Both Unit	nit and Heater Kit				Sep	Separate Power Supply for Both Unit and Heater Kit	ply for Both Unit	and Heater Ki	
			Heater Kit			A	Air Conditioner		Heat	Heater Kit	Ai	Air Conditioner	
Model	RXJJ-	No. of	Rated Heater	Heater	Heater	Unit Min. Ckt.	Over C Protective I	Over Current Protective Device Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device Size	rrent evice Size
RLRL-	Nominal kW	Steps	208/240V	208/240V	Amps @ 208/240V	208/240V	Min./Max 208V	Min./Max. 240V	208/240V	208/240V	208/240V	Min./Max. 208V	Min./Max. 240V
	No Heat			I		44/44	20/20	20/20			44/44	20/20	20/20
	00100	-	7.2/9.6	24.56/32.75	20/23.1	44/44	20/20	20/20	25/29	25/30	44/44	20/20	20/20
10000	00150	-	10.8/14.4	36.84/49.13	30/34.6	48/54	20/20	09/09	38/44	40/45	44/44	20/20	20/20
COSOCE	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	89/09	09/09	02/02	50/58	20/00	44/44	20/20	20/20
	00300		21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	44/44	50/50	50/50
	00400	-	40.0/30.4	90.63/131	90.1/32.4	071/111	65/65	001/001	01/10	621/011	44/44	00/00	00/00
	No Heat	•				49/49	09/09	09/09		1 }	49/49	09/09	09/09
	00100	<del>-</del> -	7.2/9.6	24.56/32.75	20/23.1	49/49	09/09	09/09	25/29	25/30	49/49	09/09	09/09
	CC15C	<del>-</del>	10.8/14.4	36.84/49.13	30/34.6	49/54	09/09	09/09	38/44	40/45	49/49	09/09	09/09
C120CL	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	89/09	09/09	02/02	20/28	20/60	49/49	09/09	09/09
	00800	-	21.6/28.8	73.69/98.25	60/69.3	85/97	06/06	100/100	75/87	80/90	49/49	09/09	09/09
	CC40C	-	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	49/49	09/09	09/09
	CC50C	1	36.1/48	123.16/163.75	100.1/115.5	136/155	150/150	175/175	126/145	150/150	49/49	09/09	09/09
	No Heat			1		44/44	20/20	20/20	I	I	<b>7</b> 4/44	20/20	20/20
	00100	_	7.2/9.6	24.56/32.75	20/23.1	44/44	20/20	20/20	25/29	25/30	44/44	20/20	20/20
COOUT	00150	-	10.8/14.4	36.84/49.13	30/34.6	48/54	20/20	09/09	38/44	40/45	44/44	20/20	20/20
NIOOGOO	00200	_	14.4/19.2	49.13/65.5	40/46.2	89/09	09/09	02/02	20/28	20/60	44/44	20/20	20/20
	00800	-	21.6/28.8	73.69/98.25	60/69.3	85/97	06/06	100/100	75/87	80/90	44/44	20/20	20/20
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	44/44	20/20	20/20
	No Heat	1	1	1	1	54/54	09/09	09/09	1	1	54/54	09/09	09/09
	00100	<del>-</del>	7.2/9.6	24.56/32.75	20/23.1	54/54	09/09	09/09	25/29	25/30	54/54	09/09	09/09
	CC15C	<del>-</del>	10.8/14.4	36.84/49.13	30/34.6	54/60	09/09	09/09	38/44	40/45	54/54	09/09	09/09
C120CM	CC20C	<del>-</del>	14.4/19.2	49.13/65.5	40/46.2	67/75	20//02	80/80	20/28	20/60	54/54	09/09	09/09
	00800	-	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	06/08	54/54	09/09	09/09
	CC40C	-	28.8/38.4	98.25/131	80.1/92.4	117/132	125/125	150/150	101/116	110/125	54/54	09/09	09/09
	CC50C	-	36.1/48	123.16/163.75	100.1/115.5	142/161	150/150	175/175	126/145	150/150	54/54	09/09	09/09
	No Heat	1	I	1	1	49/49	09/09	09/09	I	1	49/49	09/09	09/09
	00100	-	7.2/9.6	24.56/32.75	20/23.1	49/49	09/09	09/09	25/29	25/30	49/49	09/09	09/09
COGOCI	00150	-	10.8/14.4	36.84/49.13	30/34.6	54/60	09/09	09/09	38/44	40/45	49/49	09/09	09/09
	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	67/75	20/20	08/08	20/28	20/00	49/49	09/09	09/09
	00830	-	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	06/08	49/49	09/09	09/09
	CC40C	-	28.8/38.4	98.25/131	80.1/92.4	117/132	125/125	150/150	101/116	110/125	49/49	09/09	09/09

			208/240	208/240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	ASE, 60 HZ, AU)	(ILIARY ELECTR	IC HEATER KIT	S CHARACTER	ISTICS AND APF	LICATION			
			Single Power S	Single Power Supply for Both Unit	nit and Heater Kit				Sep	Separate Power Supply for Both Unit and Heater Kit	ply for Both Uni	t and Heater Ki	
			Heater Kit			Ai	Air Conditioner		Heat	Heater Kit	A	Air Conditioner	
Model	RXJJ-	No. of	Rated Heater	Heater	Heater	Unit Min. Ckt.	Over Current Protective Device Size	urrent Jevice Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device Size	urrent evice Size
NO. RLRL-	neater Kit Nominal KW	Steps Steps	KW @ 208/240V	208/240V	Amps @ 208/240V	Ampacity @ 208/240V	Min./Max 208V	Min./Max. 240V	Ampacity 208/240V	SIZE 208/240V	Ampacity 208/240V	Min./Max. 208V	Min./Max. 240V
	No Heat			ı		44/44	20/20	20/20			44/44	20/20	20/20
	CC10C	-	7.2/9.6	24.56/32.75	20/23.1	44/44	20/20	20/20	25/29	25/30	44/44	20/20	20/20
HOOOGB	CC15C	-	10.8/14.4	36.84/49.13	30/34.6	48/54	20/20	09/09	38/44	40/45	44/44	20/20	20/20
10000	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	89/09	09/09	20/20	20/28	20/60	44/44	20/20	20/20
	CC30C CC40C		21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	44/44 44/44	50/50	50/50
	No Heat	1	1	1	1	49/49	09/09	09/09		1	49/49	09/09	09/09
	CC10C	-	7.2/9.6	24.56/32.75	20/23.1	49/49	09/09	09/09	25/29	25/30	49/49	09/09	09/09
	CC15C	-	10.8/14.4	36.84/49.13	30/34.6	49/54	09/09	09/09	38/44	40/45	49/49	09/09	09/09
H120CR	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	89/09	09/09	70/70	20/28	20/60	49/49	09/09	09/09
	20822	-	21.6/28.8	73.69/98.25	60/69.3	85/97	06/06	100/100	78/57	06/08	49/49	09/09	09/09
	CC40C	-	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	49/49	09/09	09/09
	CC50C	1	36.1/48	123.16/163.75	100.1/115.5	136/155	150/150	175/175	126/145	150/150	49/49	09/09	09/09
	No Heat	I	I	I	I	44/44	20/20	20/20		I	44/44	20/20	20/20
	CC10C	_	7.2/9.6	24.56/32.75	20/23.1	44/44	20/20	20/20	25/29	25/30	44/44	20/20	20/20
HOOULG	CC15C	-	10.8/14.4	36.84/49.13	30/34.6	48/54	20/20	09/09	38/44	40/45	44/44	20/20	20/20
00000	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	89/09	09/09	20/20	20/28	20/60	44/44	20/20	20/20
	00300	<del>-</del> -	21.6/28.8	73.69/98.25	60/69.3	85/97	06/06	100/100	75/87	06/08	44/44	20/20	50/50
	CC40C	-	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	44/44	09/09	20/20
	No Heat	1				54/54	09/09	09/09		ı	54/54	09/09	09/09
	CC10C	-	7.2/9.6	24.56/32.75	20/23.1	54/54	09/09	09/09	25/29	25/30	54/54	09/09	09/09
1000	CC15C	- 1	10.8/14.4	36.84/49.13	30/34.6	54/60	09/09	09/09	38/44	40/45	54/54	09/09	09/09
S0021 LL	CC20C	- +	01 6/28 8	73 69/08 25	40/40.2	97/103	100/100	110/110	20/30	08/06	54/54	09/09	09/09
	00300		28.8/38.4	98 25/131	80 1/92 4	117/139	125/125	150/150	101/116	110/125	54/54	09/09	09/09
	20522		36.1/48	123.16/163.75	100.1/115.5	142/161	150/150	175/175	126/145	150/150	54/54	09/09	09/09
	No Heat					49/49	09/09	09/09			49/49	09/09	09/09
	CC10C	_	7.2/9.6	24.56/32.75	20/23.1	49/49	09/09	09/09	25/29	25/30	49/49	09/09	09/09
HOODET	CC15C	-	10.8/14.4	36.84/49.13	30/34.6	24/60	09/09	09/09	38/44	40/45	49/49	09/09	09/09
	CC20C	-	14.4/19.2	49.13/65.5	40/46.2	67/75	20/20	08/08	20/28	20/60	49/49	09/09	09/09
	CC30C	-	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	78/57	06/08	49/49	09/09	09/09
	CC40C	-	28.8/38.4	98.25/131	80.1/92.4	117/132	125/125	150/150	101/116	110/125	49/49	09/09	09/09

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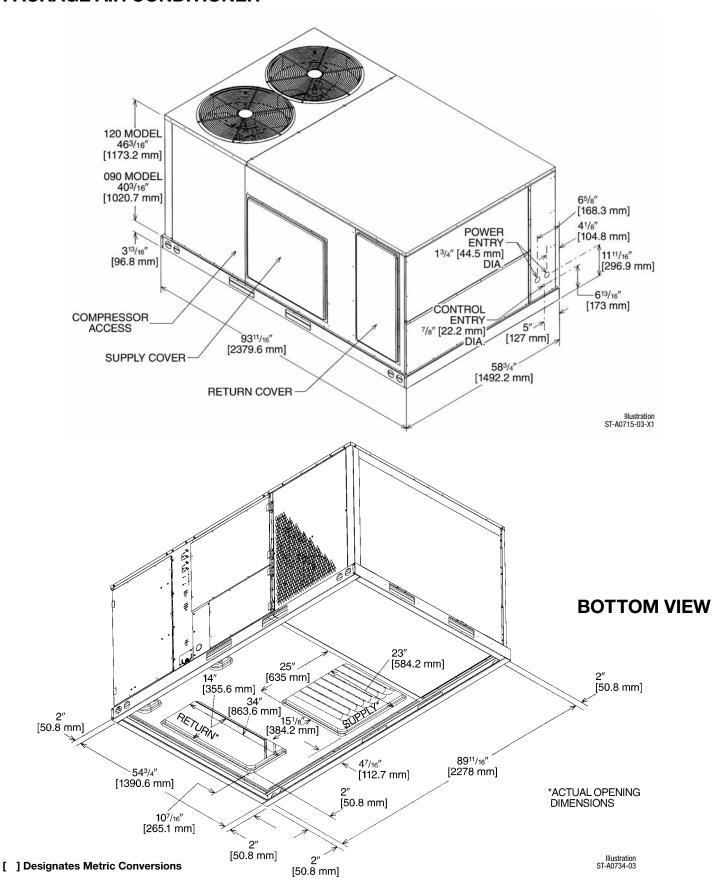
			480 VC	480 VOLT, THREE PHASE,		60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	HEATER KITS	CHARACTERIS	TICS AND APPL	ICATION			
			Single Power Si	Single Power Supply for Both Unit and Heater Kit	nit and Heater K	iit			Sep	Separate Power Supply for Both Unit and Heater Kit	oply for Both Unit	t and Heater Ki	ţ
			Heater Kit			A	Air Conditioner		Heat	Heater Kit	A	Air Conditioner	
Model	RXJJ-	No. of	Rated Heater	Heater	Heater	Unit Min. Ckt.	Over ( Protective	Over Current Protective Device Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device Size	urrent Jevice Size
NO. RLRL-	neater Kit Nominal KW	Steps	480V	480V	Amps @ 480V	Ampacity @ 480V	Min./Max 480V	Min./Max. 480V	Ampacity 480V	9126 480V	Ampacity 480V	Min./Max. 480V	Min./Max. 480V
	No Heat		1			21	25/25				21	25/25	
	CC10D	-	9.6	32.75	11.5	21	25/25	1	15	15	21/0	25/25	0/0
ומטטט	CC15D	-	14.4	49.13	17.3	27	30/30		22	25	21/0	25/25	0/0
COSODE	CC20D	-	19.2	65.5	23.1	34	32/32		29	30	21/0	25/25	0/0
	CC30D	<del>-</del>	28.8	98.25	34.6	49	20/20		44	45	21/0	25/25	0/0
	CC40D	-	38.4	131	46.2	63	20/20	1	58	09	21/0	25/25	0/0
	No Heat		I	I	I	23	25/25	I		I	23	25/25	ı
	CC10D	-	9.6	32.75	11.5	23	25/25		15	15	23/0	25/25	0/0
	CC15D	-	14.4	49.13	17.3	27	30/30		22	25	23/0	25/25	0/0
C120DL	CC20D	-	19.2	65.5	23.1	34	32/32	1	29	30	23/0	25/25	0/0
	CC30D	-	28.8	98.25	34.6	49	20/20		44	45	23/0	25/25	0/0
	CC40D	-	38.4	131	46.2	63	70/70		58	09	23/0	25/25	0/0
	CC20D	1	48	163.75	57.7	78	80/80	1	73	80	23/0	25/25	0/0
	No Heat		I	I		21	25/25	I		I	21	25/25	ı
	CC10D	-	9.6	32.75	11.5	21	25/25	1	15	15	21/0	25/25	0/0
MUUUU	CC15D	-	14.4	49.13	17.3	27	30/30	1	22	25	21/0	25/25	0/0
100000	CC20D	-	19.2	65.5	23.1	34	35/32	1	29	30	21/0	25/25	0/0
	CC30D	-	28.8	98.25	34.6	49	20/20	1	44	45	21/0	25/25	0/0
	CC40D	-	38.4	131	46.2	63	20/20	1	58	09	21/0	25/25	0/0
	No Heat	1	1	1	1	26	30/30	1		I	26	30/30	1
	CC10D	-	9.6	32.75	11.5	56	30/30	1	15	15	26/0	30/30	0/0
	CC15D	-	14.4	49.13	17.3	31	32/32		22	25	26/0	30/30	0/0
C120DM	CC20D	-	19.2	65.5	23.1	38	40/40	1	29	30	26/0	30/30	0/0
	CC30D	-	28.8	98.25	34.6	52	09/09	1	44	45	26/0	30/30	0/0
	CC40D	-	38.4	131	46.2	29	20/20	1	28	09	26/0	30/30	0/0
	CC50D	-	48	163.75	57.7	81	06/06		73	80	26/0	30/30	0/0
	No Heat	1	1	1	1	24	30/30	1	1	1	24	30/30	1
	CC10D	-	9.6	32.75	11.5	24	30/30	1	15	15	24/0	30/30	0/0
COGODIN	CC15D	-	14.4	49.13	17.3	31	32/32	1	22	25	24/0	30/30	0/0
	CC20D	-	19.2	65.5	23.1	38	40/40		59	30	24/0	30/30	0/0
	CC30D	<del>-</del> -	28.8	98.25	34.6	52	09/09	I	44 7	45	24/0	30/30	0/0
	CC40D	-	30.4	131	40.2	/0	07/07	I	200	00	24/0	30/30	0/0

		Sinale Power Si	Sinale Power Supply for Both Unit	_   10	it	nd Heater Kit		Sei	Separate Power Supply for Both Unit and Heater Kit	poly for Both Uni	it and Heater Ki	
		Heater Kit				Air Conditioner		Heat	Heater Kit	A	Air Conditioner	
RXJJ-		Rated Heater	Heater	Heater	Unit Min. Ckt.	Over C Protective I	Over Current Protective Device Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device Size	urrent evice Size
Heater Kit Nominal KW	W Steps	KW @ 480V	480V	Amps @ 480V	Ampacity @ 480V	Min./Max 480V	Min./Max. 480V	Ampacity 480V	512e 480V	Ampacity 480V	Min./Max. 480V	Min./Max. 480V
No Heat	1	1			21	25/25			1	21	25/25	1
CC10D	-	9.6	32.75	11.5	21	25/25	1	15	15	21/0	25/25	0/0
CC15D	-	14.4	49.13	17.3	27	30/30	1	22	25	21/0	25/25	0/0
CC20D	_	19.2	65.5	23.1	34	35/35	1	29	30	21/0	25/25	0/0
CC30D		28.8	98.25	34.6	49	50/50	I	44	45	21/0	25/25	0/0
740D	-	4.00	2	40.2	3 8	0//0/	١	000	no l	0/17	62/62	0/0
No Heat	,	8	6	;	8 83	25/25		;	;	23	25/25	8
00100		9.6	32.75	۲.۲۲ د. ۲	23	25/25		3. 3.	15	23/0	25/25	0/0
UC15D		14.4	49.13	17.3	27	30/30		22	25	23/0	25/25	0/0
CCZOD	<b>,</b> ,	19.2	65.5	23.1	% 5	35/35		29	30	23/0	25/25	0/0
300	_	28.8	98.25	34.6	49	20/20	I	44	45	23/0	25/25	0/0
340D	-	38.4	131	46.2	63	70/20		28	09	23/0	25/25	0/0
CC50D	-	48	163.75	57.7	78	80/80		73	80	23/0	25/25	0/0
No Heat	I	I	I	I	21	25/25		I	I	21	25/25	I
CC10D	-	9.6	32.75	11.5	21	25/25	ļ	15	15	21/0	25/25	0/0
:15D	-	14.4	49.13	17.3	27	30/30		22	25	21/0	25/25	0/0
;20D	-	19.2	65.5	23.1	34	35/35		29	30	21/0	25/25	0/0
CC30D	-	28.8	98.25	34.6	49	20/20	ļ	44	45	21/0	25/25	0/0
CC40D	-	38.4	131	46.2	63	70/70		58	60	21/0	25/25	0/0
No Heat	ı	ı			26	30/30	I	I		26	30/30	I
C10D	_	9.6	32.75	11.5	26	30/30		15	15	26/0	30/30	0/0
C15D	-	14.4	49.13	17.3	31	35/35		22	25	26/0	30/30	0/0
CC20D	-	19.2	65.5	23.1	38	40/40	ļ	29	30	26/0	30/30	0/0
CC30D	_	28.8	98.25	34.6	52	09/09		44	45	26/0	30/30	0/0
CC40D	-	38.4	131	46.2	29	70/70		28	09	26/0	30/30	0/0
CC50D	-	48	163.75	57.7	81	06/06		73	80	26/0	30/30	0/0
No Heat	I	ı	I	I	24	30/30	I	I	ı	24	30/30	I
CC10D	-	9.6	32.75	11.5	24	30/30	ļ	15	15	24/0	30/30	0/0
CC15D	-	14.4	49.13	17.3	31	35/35		22	25	24/0	30/30	0/0
CC20D	-	19.2	65.5	23.1	38	40/40		29	30	24/0	30/30	0/0
CC30D	-	28.8	98.25	34.6	52	09/09	1	44	45	24/0	30/30	0/0
CC40D	-	38.4	131	46.2	29	70/70		58	09	24/0	30/30	0/0

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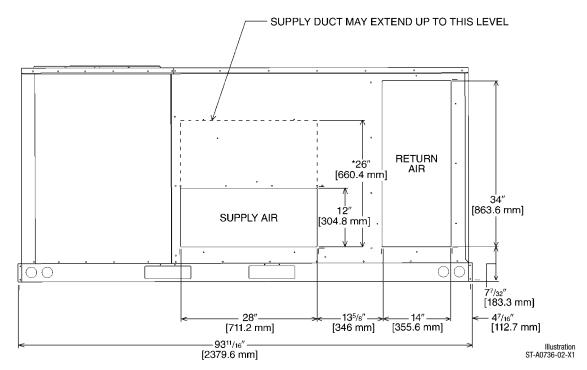
			OA 009	600 VOLT, THREE PHASE,		60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	HEATER KITS	CHARACTERIS	TICS AND APPLI	ICATION			
			Single Power St	Single Power Supply for Both Unit	nit and Heater Kit	ı.			Sep	Separate Power Supply for Both Unit and Heater Kit	iply for Both Unit	and Heater Kit	
			Heater Kit			Ai	Air Conditioner		Heat	Heater Kit	A	Air Conditioner	
Model	RXJJ-	No. of	Rated Heater	Heater	Heater	Unit Min. Ckt.	Over Current Protective Device	Over Current Protective Device Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device Size	rrent evice Size
RLRL-	Nominal KW	Steps	0009 (E)	600V	600V	600V	Min./Max 600V	Min./Max. 600V	600V	0009	600V	Min./Max. 600V	Min./Max. 600V
	No Heat	1	1	1		16	20/20			1	16	20/20	
	CC10Y	-	9.6	32.75	9.2	17	20/20	I	12	15	16/0	20/20	0/0
Mond	CC15Y	-	14.4	49.13	13.9	23	25/25		18	20	16/0	20/20	0/0
0000	CC20Y	-	19.2	65.5	18.5	29	30/30		24	25	16/0	20/20	0/0
	CC30Y		28.8	98.25	27.7	40	40/40	I	35	35	16/0	20/20	0/0
	UC401	-	500.4	101	37	7C	00/00	١	4	nc	0/01	20/20	0/0
	No Heat	1	1	I	L	<u>e</u>	20/20		1	1	<u>e</u>	20/20	1
	CC10Y	<del>, </del>	9.6	32.75	9.5	<u>@</u>	20/20		15	15	18/0	20/20	0/0
	CC15Y	·-	14.4	49.13	13.9	23	25/25		9	20	18/0	20/20	0/0
C120YL	CC20Y	-	19.2	65.5	18.5	59	30/30		24	25	18/0	20/20	0/0
	CC30Y	-	28.8	98.25	27.7	40	40/40		35	35	18/0	20/20	0/0
	CC40Y	-	38.4	131	37	52	09/09	1	47	20	18/0	20/20	0/0
	CC50Y	-	48	163.75	46.2	63	70/70		58	09	18/0	20/20	0/0
	No Heat	I	I	1	I	16	20/20		I	1	16	20/20	
	CC10Y	-	9.6	32.75	9.2	17	20/20		12	15	16/0	20/20	0/0
COOUNIN	CC15Y	-	14.4	49.13	13.9	23	25/25	1	18	20	16/0	20/20	0/0
INI 0600	CC20Y	-	19.2	65.5	18.5	29	30/30		24	25	16/0	20/20	0/0
	CC30Y	-	28.8	98.25	27.7	40	40/40		35	35	16/0	20/20	0/0
	CC40Y	1	38.4	131	37	52	09/09		47	20	16/0	20/20	0/0
	No Heat	1	1	1	I	23	30/30	1	I	1	23	30/30	1
	CC10Y	-	9.6	32.75	9.5	23	30/30		12	15	23/0	30/30	0/0
	CC15Y	<del>, </del>	14.4	49.13	13.9	28	30/30		8	20	23/0	30/30	0/0
C120YM	CC20Y	·	19.2	65.5	18.5	34	35/35		24	25	23/0	30/30	0/0
	CC30Y	-	28.8	98.25	27.7	45	45/45	I	35	35	23/0	30/30	0/0
	CC40Y	-	38.4	131	37	22	09/09		47	20	23/0	30/30	0/0
	CC50Y	-	48	163.75	46.2	89	70/70	1	58	09	23/0	30/30	0/0
	No Heat	I		1		21	25/25		1	1	21	25/25	
	CC10Y	-	9.6	32.75	9.5	22	25/25		12	15	21/0	25/25	0/0
COGOVI	CC15Y	-	14.4	49.13	13.9	28	30/30		18	20	21/0	25/25	0/0
	CC20Y	-	19.2	65.5	18.5	34	35/35		24	25	21/0	25/25	0/0
	CC30Y	<del>, ,</del>	28.8	98.25	27.7	45	45/45		35	35	21/0	25/25	0/0
	CC40Y	_	38.4	131	37	/ç	09/09		47	90	21/0	25/25	0/0

### **PACKAGE AIR CONDITIONER**



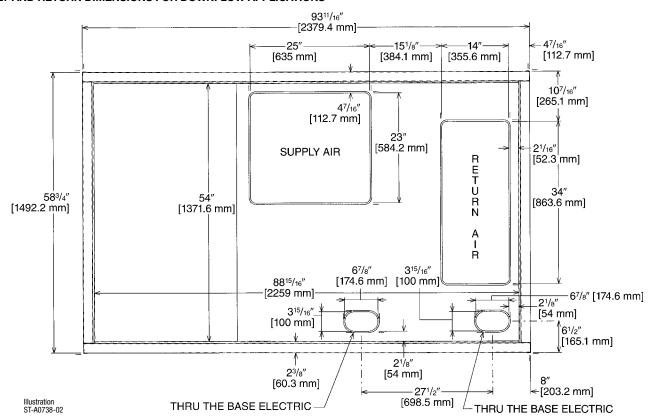
### PACKAGE AIR CONDITIONER

### SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

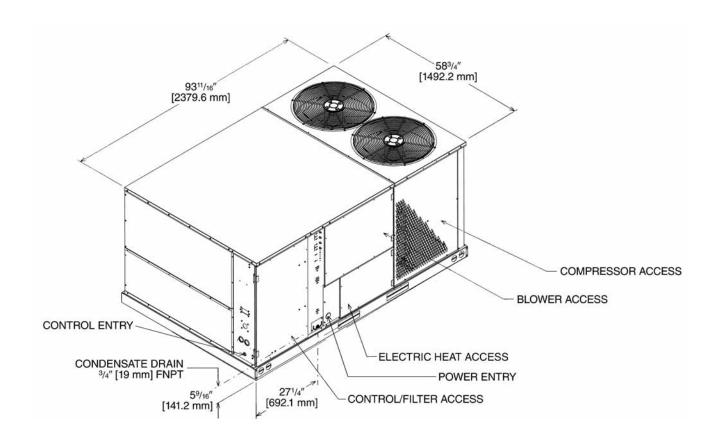


### \*RECOMMENDED DUCT DIMENSIONS ARE 26"

### SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



### PACKAGE AIR CONDITIONER



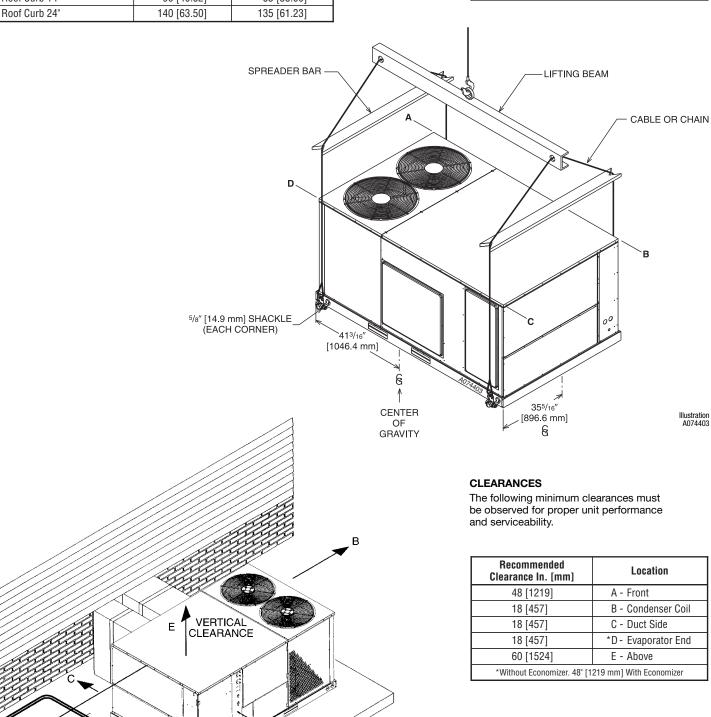
### [ ] Designates Metric Conversions

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### **WEIGHTS**

Accessory	Shipping—lbs [kg]	Operating—lbs [kg]	
Economizer	90 [40.82]	81 [36.70]	
Power Exhaust	44 [19.96]	42 [19.05]	
Fresh Air Damper (Manual)	26 [11.79]	21 [9.53]	
Fresh Air Damper (Motorized)	43 [19.50]	38 [17.24]	
Roof Curb 14"	90 [40.82]	85 [38.60]	
Roof Curb 24"	140 [63.50]	135 [61.23]	

Capacity Tons [kW]	Corner Weights by Percentage				
	Α	В	С	D	
6-12.5 [21.1-44.0]	33%	27%	17%	23%	



Recommended Clearance In. [mm]	Location		
48 [1219]	A - Front		
18 [457]	B - Condenser Coil		
18 [457]	C - Duct Side		
18 [457]	*D - Evaporator End		
60 [1524]	E - Above		
*Without Economizer. 48" [1219 mm] With Economizer			

[ ] Designates Metric Conversions

Illustration A074403



### FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Thermostats	See Thermostat Specific	ermostat Specification Sheet for Details (T11-001)		
	RXJJ-CC10 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
	RXJJ-CC15 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
Floating Hostons	RXJJ-CC20 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
Electric Heaters	RXJJ-CC30 (C,D,Y)	47 [21.3]	37 [16.8]	Yes
	RXJJ-CC40 (C,D,Y)	49 [22.2]	39 [17.7]	Yes
	RXJJ-CC50 (C,D,Y)	51 [23.1]	41 [18.6]	Yes
Economizer w/Single Enthalpy	AXRD-PJCM3	90 [40.8]	81 [36.7]	Yes
Economizer w/Single Enthalpy and Smoke Dectector	AXRD-SJCM3	91 [41.3]	82 [37.2]	Yes
Dual Enthalpy Kit	RXRX-AV03	1 [0.5]	1 [0.5]	No
Horizontal Economizer w/Single Enthalpy	AXRD-RJCM3	94 [42.6]	89 [40.4]	No
Carbon Dioxide Sensor	RXRX-AR02	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-BFF02 (C,D,Y)	43 [19.5]	38 [17.2]	No
Manual Fresh Air (Left Panel Mounted)	AXRF-KDA1	38 [17.2]	31 [14.0]	No
Manual Fresh Air (Return Panel)	AXRF-JDA1	26 [11.8]	21 [9.5]	No
Motorized Fresh Air (Return Panel)	AXRF-JDB1	43 [19.5]	21 [9.5]	No
Motor Kit for RXRF-KDA1 (Left Panel Mounted)	RXRX-AW02	35 [15.19]	27 [17.7]	No
Modulating Motor Kit w/position feedback for RXRF-KDA1	RXRX-AW04	38 [17.2]	30 [13.6]	No
Roofcurb, 14"	RXKG-CAE14	90 [40.8]	85 [38.5]	No
Roofcurb, 24"	RXKG-CAE24	140 [63.5]	135 [61.2]	No
	RXRX-CDCE50	300 [136.1]	290 [131.5]	No
Deeferwh Adenters	RXRX-CFCE54	325 [147.4]	315 [142.9]	No
Roofcurb Adapters	RXRX-CFCE56	350 [158.8]	340 [154.2]	No
	RXRX-CGCC12	450 [204.1]	410 [186.0]	No
Concentric Diffuser (Step-Down, 18 x 28)	RXRN-AA61	200 [90.7]	185 [83.9]	No
Concentric Diffuser (Step-Down, 18 x 32)	RXRN-AA66	247 [112.0]	227 [103.0]	No
Concentric Diffuser (Flush, 18 x 28)	RXRN-AA71	170 [77.1]	155 [70.3]	No
Concentric Diffuser (Flush, 18 x 32)	RXRN-AA76	176 [79.8]	161 [73.0]	No
Downflow Adapters (Rect. to Round)	RXMC-CD04	15 [6.8]	13 [5.9]	No
Downflow Adapters (Rect. to Rect., 18 x 28)	RXMC-CE05 ①	18 [8.2]	16 [7.3]	No
Downflow Adapters (Rect. to Rect., 18 x 32)	RXMC-CF06 @	20 [9.1]	18 [8.2]	No
Low-Ambient Control Kit (1 Per Compressor)	RXRZ-C02	3 [1.4]	2 [1.0]	Yes
Outdoor Louver Kit	AXRX-AAD02A (7.5 Ton)	29 [13.1]	26 [11.8]	Yes
Outdoor Louver Kit	AXRX-AAD03A (10 Ton)	32 [14.5]	28 [12.7]	Yes
Unwired Convenience Outlet	RXRX-AN01	2 [1.0]	1.5 [0.7]	Yes
Comfort Alert (1 per compressor)	RXRX-AZ01	3 [1.4]	2 [0.9]	Yes
BACnet Communication Card	RXRX-AY01	1 [0.5]	1 [0.5]	No
LonWorks Communication Card	RXRX-AY02	1 [0.5]	1 [0.5]	No

NOTES: ① Used with RXRN-AA61 and RXRN-AA71 concentric diffusers. ② Used with RXRN-AA66 and RXRN-AA76 concentric diffusers.

### **THERMOSTAT**



200-Series \*
Programmable



300-Series \*
Deluxe
Programmable
400-Series \*
Special Applications/
Programmable



**500-Series \*** Communicating/ Programmable

Brand		Descripter (3 Characters)	Series (3 Characters)	System (2 Characters)	Type (2 Characters)
RHC	-	TST	213	UN	MS
RHC=Rheem		TST=Thermostat	200=Programmable 300=Deluxe Programmable 400=Special Applications/ Programmable 500=Communicating/ Programmable	GE=Gas/Electric UN=Universal (AC/HP/GE) MD=Modulating Furnace DF=Dual Fuel CM=Communicating	SS=Single-Stage MS=Multi-Stage

<sup>\*</sup> Photos are representative. Actual models may vary.

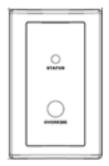
For detailed thermostat match-up information, see specification sheet form number T11-001.

### FLUSH MOUNT ROOM TEMPERATURE SENSORS FOR NETWORKED DDC APPLICATIONS



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

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



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

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



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

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

### 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.

## ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

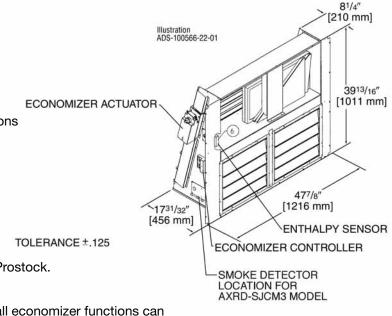
# **Use to Select Factory Installed Options Only**

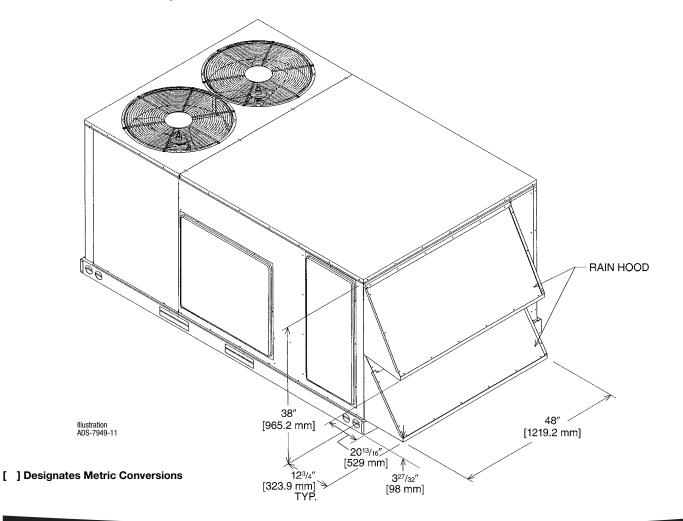
AXRD-PJCM3—Single Enthalpy (Outdoor) and AXRD-SJCM3 Single Enthalpy with Smoke Detector

RXRX-AV03—Dual Enthalpy Upgrade Kit

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

- Features Honeywell Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock.
- Field Installed Power Exhaust Available
- Prewired for Smoke Detector
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



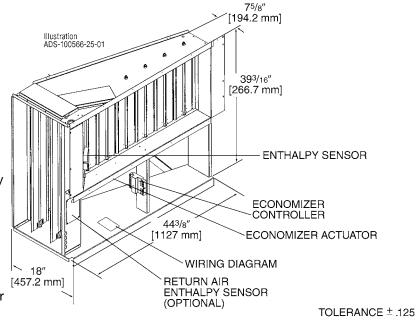


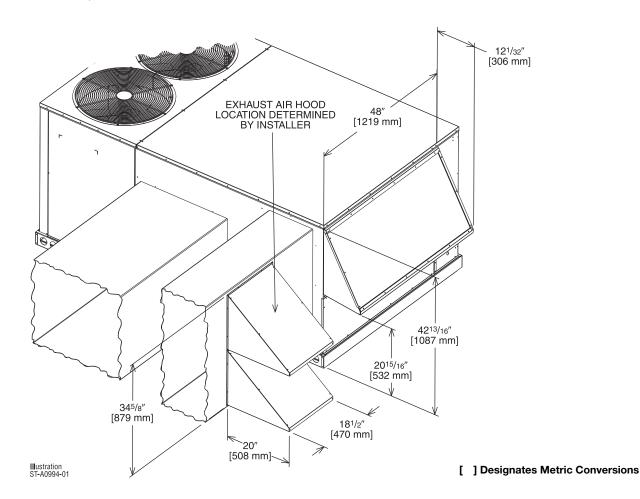
# **ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION**

## **Field Installed Only**

AXRD-RJCM3—Single Enthalpy (Outdoor) RXRX-AV03—Dual Enthalpy Upgrade Kit RXRX-AR02—Wall-mounted CO<sub>2</sub> Sensor

- Features **Honeywell** Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS) or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



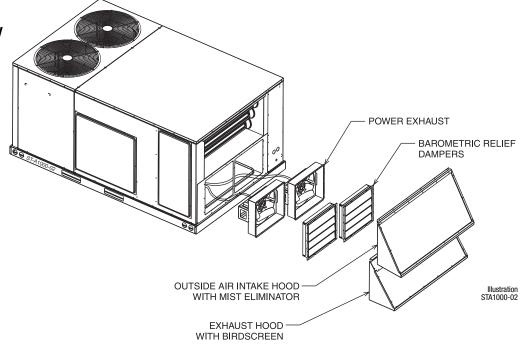


# POWER EXHAUST KIT FOR AXRD-PJCM3(-), AXRD-RJCM3(-), AXRD-SJCM3 **ECONOMIZERS**

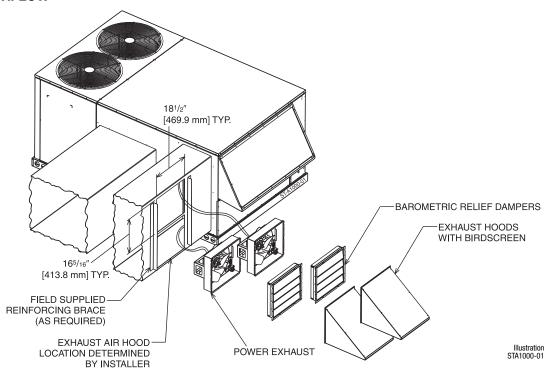
RXRX-BFF02 (C, D, or Y\*)

\*Voltage Code

**VERTICAL AIRFLOW** 



### **HORIZONTAL AIRFLOW**



Model No.	No.	Volts	Phase	HP	Low Spec	ed	High Spee	<b>d</b> ①	FLA	LRA
Model No.	of Fans	VUIIS	FIIASE	(ea.)	CFM [L/s] ②	RPM	CFM [L/s] ②	RPM	(ea.)	(ea.)
RXRX-BFF02C	2	208-230	1	0.33	2200 [1038]	1518	2500 [1179]	1670	1.48	3.6
RXRX-BFF02D	2	460	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.75	1.8
RXRX-BFF02Y	2	575	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.81	1.5

NOTES:  ${\scriptsize\textcircled{\tiny 1}}$  Power exhaust is factory set on high speed motor tap.

② CFM is per fan at 0" w.c. external static pressure.

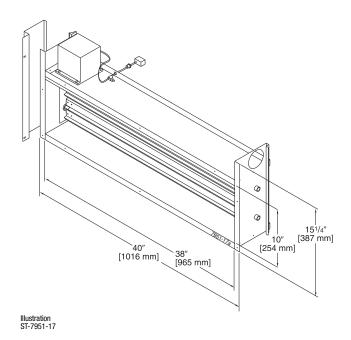


### FRESH AIR DAMPER

MOTORIZED DAMPER KIT RXRX-AW02 (Motor Kit for AXRF-KDA1)

#### RXRX-AW04

(Modulating Motor Kit with position feedback for AXRF-KDA1)



**AXRF-KDA1** (Manual)

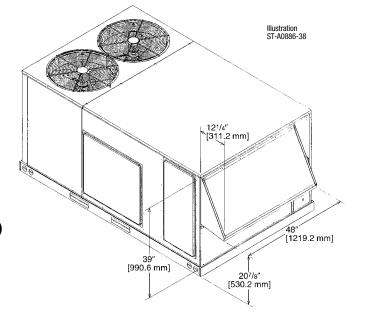
DOWNFLOW OR HORIZONTAL APPLICATION

MOTORIZED DAMPER KIT RXRX-AW02 (Motor Kit for AXRF-KDA1)

### **RXRX-AW04**

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

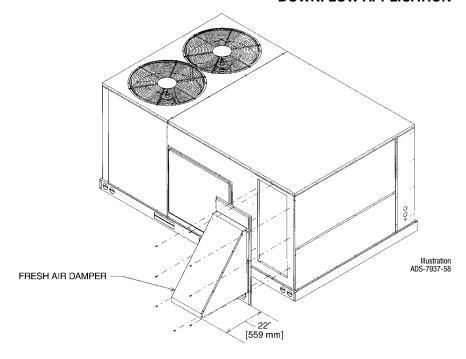
- Features Honeywell Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Addition of Dual Enthalpy Upgrade Kit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



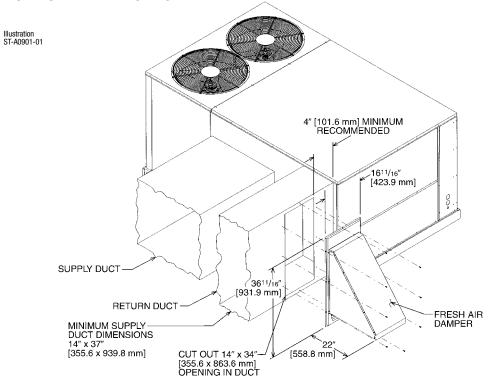
# FRESH AIR DAMPER (Cont.)

**AXRF-JDA1** (Manual) **AXRF-JDB1** (Motorized)

### **DOWNFLOW APPLICATION**



### **HORIZONTAL APPLICATION**

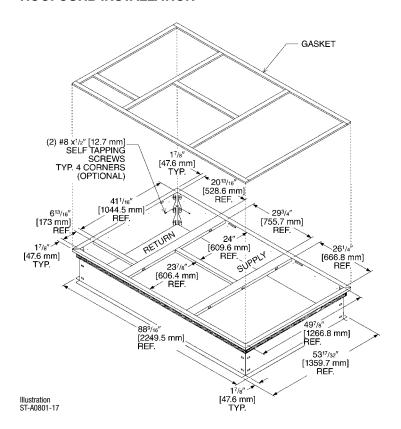


# **ROOFCURBS (Full Perimeter)**

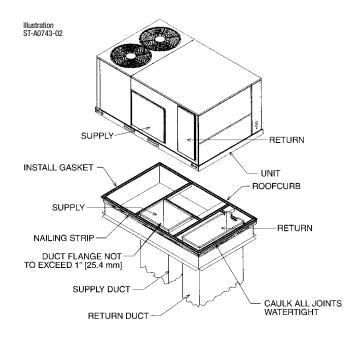
- Rheem's roofcurb design can be utilized on all 7.5-10 ton [26.4-35.2 kW] RLRL-C/H models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening provided on the unit base pan.
- 1" [25 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (40' [12.2 m]) provided with Roofcurb.
- Packaged for easy field assembly.

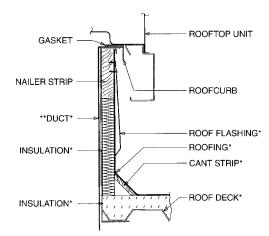
Roofcurb Model	Height of Curb
RXKG-CAE14	14" [356 mm]
RXKG-CAE24	24" [610 mm]

### **ROOFCURB INSTALLATION**



### TYPICAL INSTALLATION





### \*BY CONTRACTOR

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

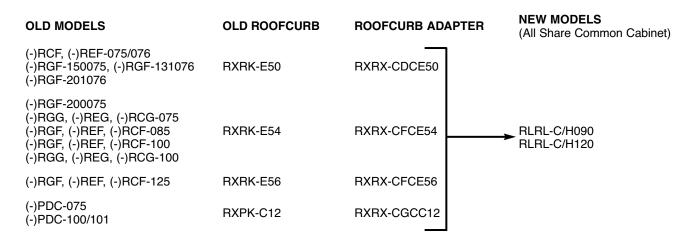
Illustration ST-A0743-02

[ ] Designates Metric Conversions

42

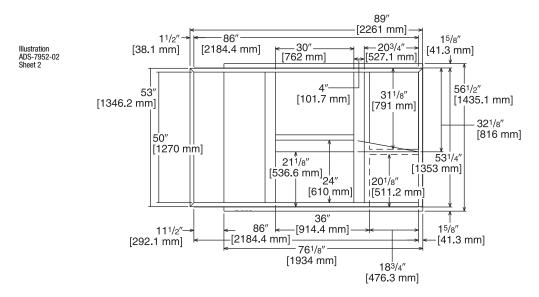


## **ROOFCURB ADAPTERS**

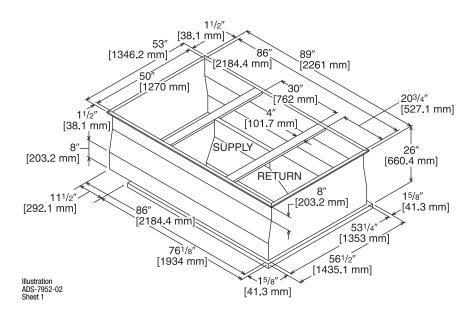


NOTE: Ductwork modifications may be necessary if the capacity and/or indoor airflow rate of replacement unit is not equivalent to that of the unit being replaced. RLRL-C072, C090, C102, C120, C151 fit on same roofcurb as the RLKB-A090, A102, A120, A150, A181, RLMB-A090, A102, A120, A150, RLNB-A090, A102, A120

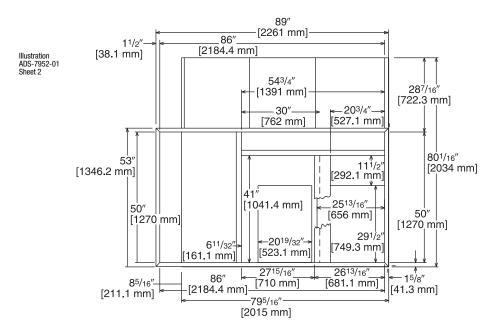
### **RXRX-CDCE50**



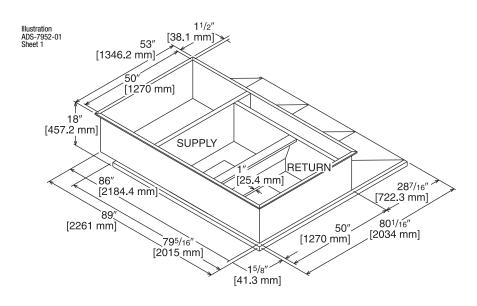
**TOP VIEW** 



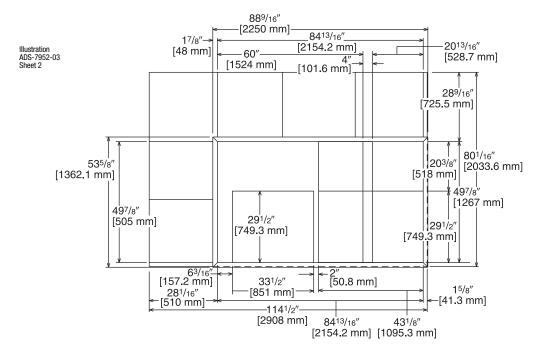
### **RXRX-CFCE54**



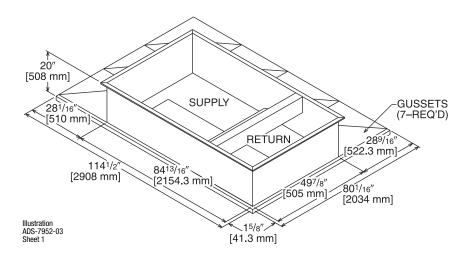
**TOP VIEW** 



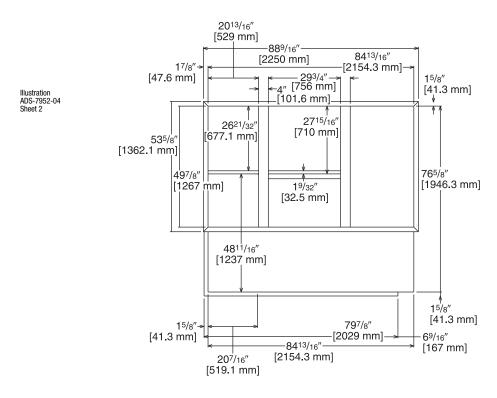
### **RXRX-CFCE56**



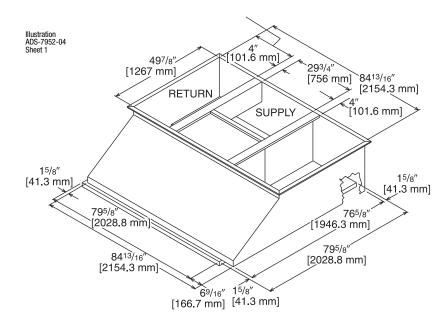
**TOP VIEW** 



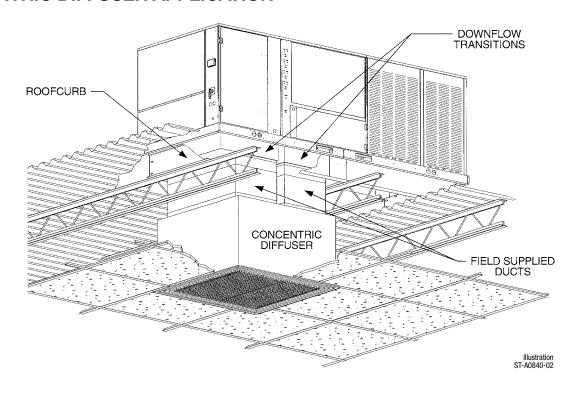
### **RXRX-CGCC12**



### **TOP VIEW**

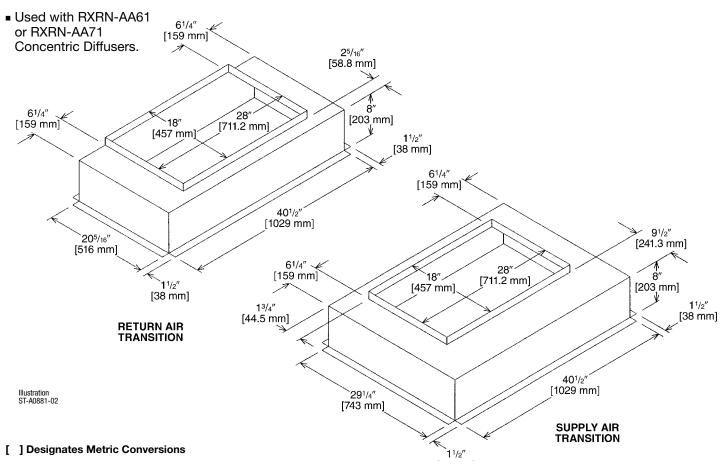


# **CONCENTRIC DIFFUSER APPLICATION**



# **DOWNFLOW TRANSITION DRAWINGS**

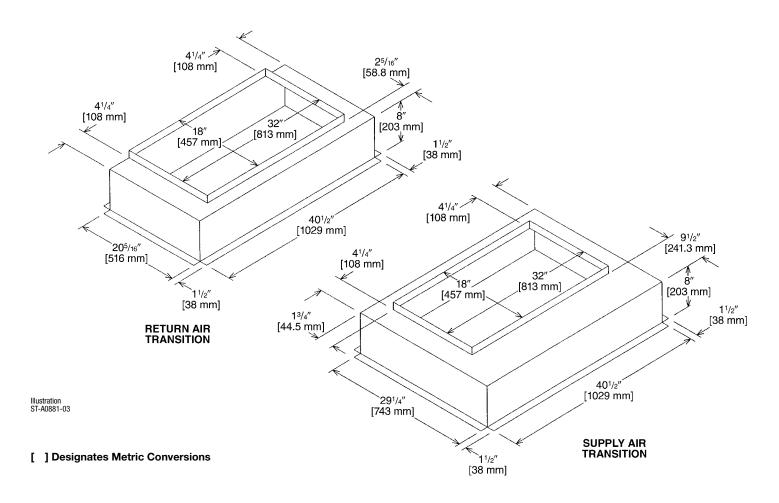
### **RXMC-CE05**



# **DOWNFLOW TRANSITION DRAWINGS (Cont.)**

### **RXMC-CF06**

■ Used with RXRN-AA66 or RXRN-AA76 Concentric Diffusers.

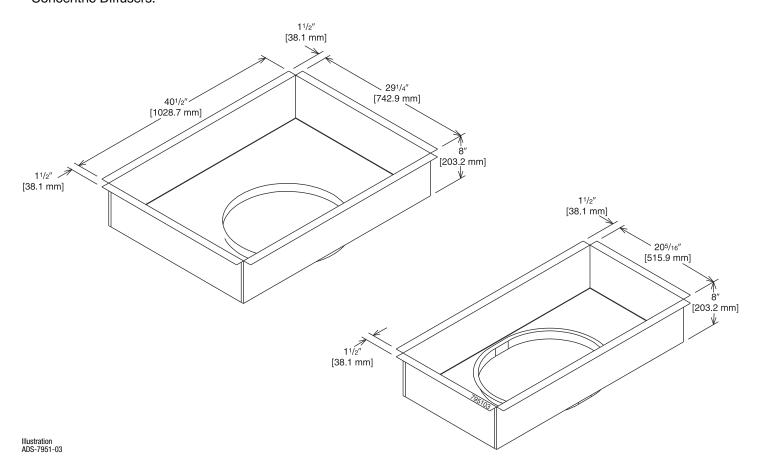




# **DOWNFLOW TRANSITION DRAWINGS (Cont.)**

## RXMC-CD04

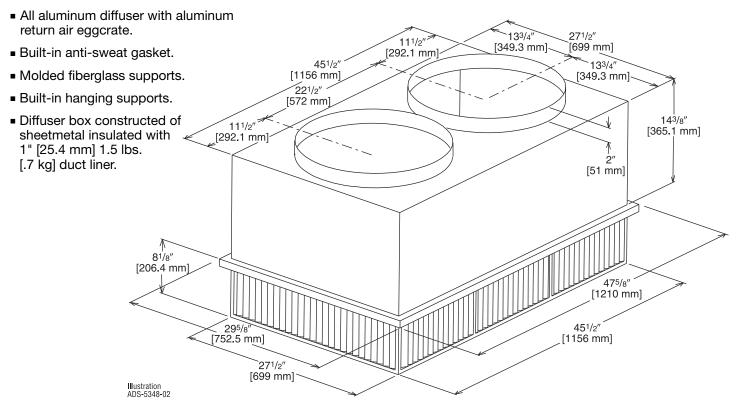
 Used with RXRN-FA65 or RXRN-FA75 Concentric Diffusers.



## CONCENTRIC DIFFUSER—STEP DOWN

RXRN-FA65 (7.5 & 8.5 Ton [26.4 & 29.9 kW] Models)

# For Use With Downflow Transition (RXMC-CD04) and 20" [508 mm] Round Supply and Return Ducts



# **ENGINEERING DATA®**

Model No.	Flow Rate CFM [L/s]	Static Pressure in. w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
	2600 [1227]	0.17 [0.042]	24-29 [7.3-8.8]	669 [3.4]	20
	2800 [1321]	0.20 [0.050]	25-30 [7.6-9.1]	720 [3.7]	25
RXRN-FA65	3000 [1416]	0.25 [0.062]	27-33 [8.2-10.1]	772 [3.9]	25
	3200 [1510]	0.31 [0.077]	28-35 [8.5-10.7]	823 [4.2]	25
	3400 [1604]	0.37 [0.092]	30-37 [9.1-11.3]	874 [4.4]	30

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.
- 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.

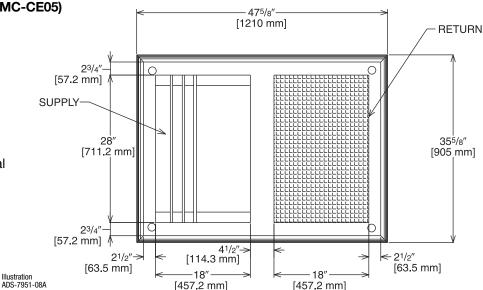


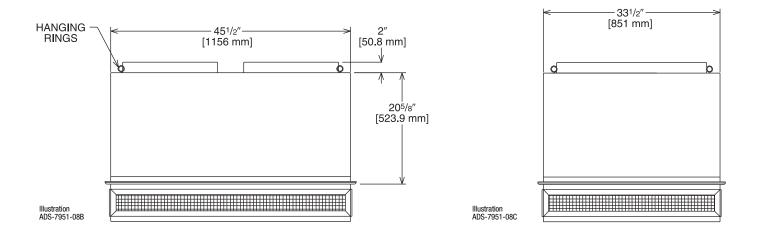
# CONCENTRIC DIFFUSER—STEP DOWN 18" x 28" [457.2 x 711.2 mm]

RXRN-AA61 (8.5 & 10 Ton [29.9 kW & 35.2] Models)

For Use With Downflow Transition (RXMC-CE05) and 18" x 28" [457.2 x 711.2 mm]
Supply and Return Ducts

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





### **ENGINEERING DATA®**

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
	3600 [1699]	0.17 [0.042]	25-33 [7.6-10.1]	851 [4.3]	30
	3800 [1793]	0.18 [0.045]	27-35 [8.2-10.7]	898 [4.6]	30
RXRN-AA61	4000 [1888]	0.21 [0.052]	29-37 [8.8-11.3]	946 [4.8]	30
	4200 [1982]	0.24 [0.060]	32-40 [9.8-12.2]	993 [5.0]	30
	4400 [2076]	0.27 [0.067]	34-42 [10.4-12.8]	1040 [5.3]	30

NOTES:  $\ensuremath{\mathfrak{D}}$  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.
- 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.

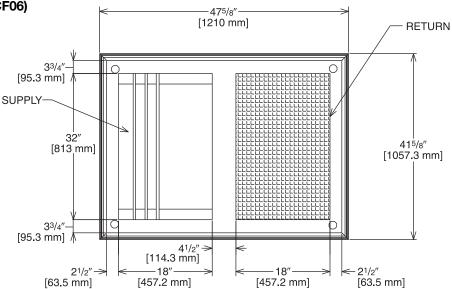
# CONCENTRIC DIFFUSER—STEP DOWN 18" x 32" [457.2 x 813 mm]

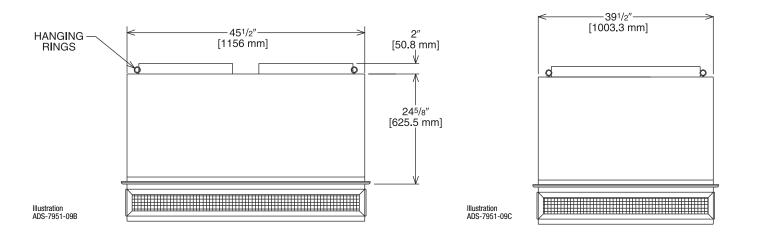
RXRN-AA66 (12.5 Ton [44.0 kW] Models)

For Use With Downflow Transition (RXMC-CF06) and 18" x 32" [457.2 x 813 mm] Supply and Return Ducts

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

Illustration ADS-7951-09A





## **ENGINEERING DATA**<sup>®</sup>

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
	4600 [2171]	0.31 [0.077]	26-31 [7.9-9.4]	841 [4.3]	30
	4800 [2265]	0.32 [0.080]	27-32 [8.2-9.8]	878 [4.5]	30
RXRN-AA66	5000 [2359]	0.34 [0.085]	28-33 [8.5-10.1]	915 [4.6]	30
	5200 [2454]	0.36 [0.090]	28-34 [8.5-10.4]	951 [4.8]	30
	5400 [2548]	0.39 [0.097]	29-35 [8.8-10.7]	988 [6.0]	30

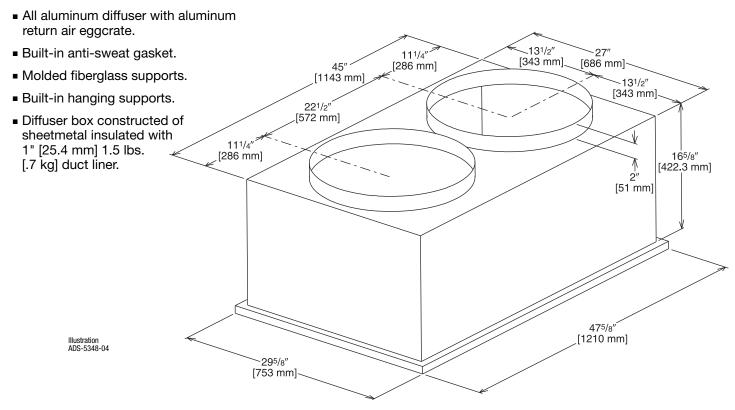
NOTES:  $\tiny\textcircled{1}$  All data is based on the air diffusion council guidelines.

- $\ensuremath{\mathfrak{D}}$  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.
- 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.

## FLUSH MOUNT CONCENTRIC DIFFUSER—FLUSH

RXRN-FA75 (7.5 & 8.5 Ton [26.4 & 29.9 kW] Models)

# For Use With Downflow Transition (RXMC-CD04) and 20" [508 mm] Round Supply and Return Ducts



# **ENGINEERING DATA®**

Model No.	Flow Rate CFM [L/s]	Static Pressure in. w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
	2600 [1227]	.17 [0.042]	19-24 [5.8-7.3]	663 [3.4]	30
	2800 [1321]	.20 [0.050]	20-28 [6.1-8.5]	714 [3.6]	35
RXRN-FA75	3000 [1416]	.25 [0.062]	21-29 [6.4-8.8]	765 [3.9]	35
	3200 [1510]	.31 [0.077]	22-29 [6.7-8.8]	816 [4.1]	40
	3400 [1604]	.37 [0.092]	22-30 [6.7-9.1]	867 [4.4]	40

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

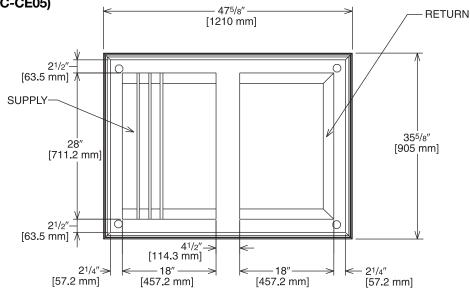
- ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
- $\ensuremath{\mathfrak{G}}$  Throw is based on diffuser blades being directed in a straight pattern.
- 4 Actual noise levels may vary due to duct design and do not include transmitted unit noise. Adequate duct attenuation must be provided to reduce sound output from the unit.

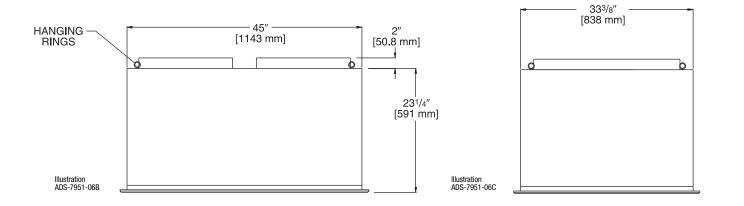
# CONCENTRIC DIFFUSER—FLUSH and 18" x 28" [457.2 x 711.2 mm]

RXRN-AA71 (8.5 & 10 Ton [29.9 & 35.2] Models)

For Use With Downflow Transition (RXMC-CE05) and 18" x 28" [457.2 x 711.2 mm]
Supply and Return Ducts

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





### **ENGINEERING DATA®**

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
	3600 [1699]	0.17 [0.042]	22-29 [6.7-8.8]	844 [4.3]	35
	3800 [1793]	0.18 [0.045]	22-30 [6.7-9.1]	891 [4.5]	40
RXRN-AA71	4000 [1888]	0.21 [0.052]	24-33 [7.3-10.1]	938 [4.8]	40
	4200 [1982]	0.24 [0.060]	26-35 [7.9-10.7]	985 [5.0]	40
	4400 [2076]	0.27 [0.067]	28-37 [8.5-11.3]	1032 [5.2]	40

 $\mbox{NOTES:} \ \mbox{\textcircled{$\mathbb{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.
- 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.

Illustration ADS-7951-06A



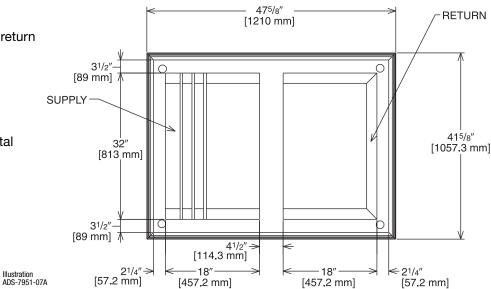
# CONCENTRIC DIFFUSER—FLUSH 18" x 32" [457.2 x 813 mm]

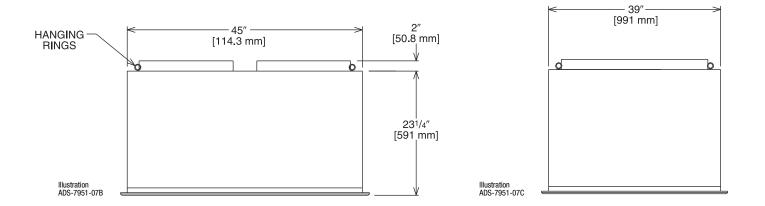
RXRN-AA76 (12.5 Ton [44.0 kW] Models)

For Use With Downflow Transition (RXMC-CF06) and 18" x 32" [457.2 x 813 mm] Supply and Return Ducts

 All aluminum diffuser with aluminum return air eggcrate.

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





# **ENGINEERING DATA**<sup>®</sup>

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
	4600 [2171]	0.31 [0.077]	25-34 [7.6-10.4]	922 [4.7]	40
	4800 [2265]	0.32 [0.080]	26-35 [7.9-10.7]	962 [4.9]	40
RXRN-AA76	5000 [2359]	0.34 [0.085]	27-36 [8.2-11.0]	1002 [5.1]	40
	5200 [2454]	0.36 [0.090]	30-39 [9.1-11.9]	1043 [5.3]	45
	5400 [2548]	0.39 [0.097]	32-41 [9.8-12.5]	1083 [5.5]	45

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

- ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
- 3 Throw is based on diffuser blades being directed in a straight pattern.
- 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.

### GUIDE SPECIFICATIONS - RLRL-C/H090 and 120

You may copy this document directly into your building specification. This specification is written to comply with the 2004 version of the "master format" as published by the Construction Specification Institute. www.csinet.org.

### **ELECTRIC HEAT PACKAGED ROOFTOP**

**HVAC Guide Specifications** 

Size Range: 6 to 12.5 Nominal Tons

Section Description

### 23 06 80 Schedules for Decentralized HVAC Equipment

23 06 80.13 Decentralized Unitary HVAC Equipment Schedule

23 06 80.13.A. Rooftop unit schedule

1. Schedule is per the project specification requirements.

### 23 07 16 HVAC Equipment Insulation

23 07 16.13 Decentralized, Rooftop Units:

- 1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 lb density, flexible fiberglass insulation bonded with a phenolic binder, with aluminum foil facing on the air side.
- 2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

### 23 09 13 Instrumentation and Control Devices for HVAC

23 09 13.23 Sensors and Transmitters

23 09 13.23.A. Thermostats

- 1. Thermostat must
  - a. have capability to energize 2 different stages of cooling, and 2 different stages of heating.
  - b. must include capability for occupancy scheduling.

### 23 09 23 Direct-digital Control system for HVAC

23 09 23.13 Decentralized, Rooftop Units:

23 09 23.13.A. RTU-C controller

- 1. Shall be ASHRAE 62-2001 compliant.
- 2. Shall accept 18-32VAC input power.
- 3. Shall have an operating temperature range from -40°F (-40°C) to 158°F (70°C), 10% 95% RH (non-condensing).
- 4. Controller shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, fire shutdown, return air enthalpy, fan status, remote time clock/door switch.
- 5. Shall accept a CO2 sensor in the conditioned space, and be Demand Control Ventilation (DCV) ready.
- Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, occupied.
- 7. Unit shall provide surge protection for the controller through a circuit breaker.
- 8. Shall have a field installed communication card allowing the unit to be Internet capable, and communicate at a Baud rate of 19.2K or faster
- 9. Shall have an LED display independently showing the status of activity on the communication bus, and processor operation.
- 10. 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.
- 11. Software upgrades will be accomplished by local download. Software upgrades through chip replacements are not allowed.
- 12. Shall be shock resistant in all planes to 5G peak, 11ms during operation, and 100G peak, 11ms during storage.
- 13. Shall be vibration resistant in all planes to 1.5G @ 20-300 Hz.
- 14. Shall support a bus length of 4000 ft max, 60 devices per 1000 ft section, and 1 RS-485 repeater per 1000 ft sections.

### 23 09 23.13.B. Open protocol, direct digital controller:

- 1. Shall be ASHRAE 62-2001 compliant.
- 2. Shall accept 18-30VAC, 50-60Hz, and consumer 15VA or less power.
- 3. Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% 90% RH (non-condensing).
- 4. 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.
- 5. The BACnet® plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes)
- 6. The LonWorks™ plug in communication card shall include the Echelon processor required for all Lon applications.
- 7. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers
- 8. Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
- 9. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
- 10. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/ humidity/ remote occupancy.
- 11. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust.
- 12. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.

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

23 09 33.13 Decentralized, Rooftop Units:

23 09 33.13.A. General:

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

### 23 09 33.23.B. Safeties:

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

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

23 09 93.13 Decentralized, Rooftop Units:

23 09 93.13 INSERT SEQUENCE OF OPERATION

#### 23 40 13 Panel Air Filters

23 40 13.13 Decentralized, Rooftop Units:

23 40 13.13.A. Standard filter section shall

- 1. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
- 2. Filters shall be accessible through an access panel as described in the unit cabinet section of this specification (23 81 19.13.H).
- 23 81 19 Self-Contained Air Conditioners
- 23 81 19.13 Small-Capacity Self-Contained Air Conditioners

23 81 19.13.A. General

- 1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and heat pump for heating duty.
- 2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
- 3. Unit shall use environmentally sound R-410a refrigerant.
- 4. Unit shall be installed in accordance with the manufacturer's instructions.
- 5. Unit must be selected and installed in compliance with local, state, and federal codes.

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

- 1. Unit meets ASHRAE 90.1-2004 minimum efficiency requirements.
- 2. 3 phase units are Energy Star qualified.
- 3. Unit shall be rated in accordance with AHRI Standards 210/240 and 340/360.
- 4. Unit shall be designed to conform to ASHRAE 15, 2001.
- 5. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
- 6. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
- 7. Unit casing shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- 8. Unit casing shall be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 5000-hour salt spray.
- 9. Unit shall be designed in accordance with ISO 9001:2000, and shall be manufactured in a facility registered by ISO 9001:2000.
- 10. Roof curb shall be designed to conform to NRCA Standards.
- 11. 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.
- 12. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
- 13. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.

- 23 81 19.13.C. Delivery, Storage, and Handling
  - 1. Unit shall be stored and handled per manufacturer's recommendations.
  - 2. Lifted by crane requires either shipping top panel or spreader bars.
  - 3. Unit shall only be stored or positioned in the upright position.

### 23 81 19.13.E. Project Conditions

- 1. As specified in the contract.
- 23 81 19.13.F. Operating Characteristics
  - 1. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 or 340/360 at ± 10% voltage.
  - 2. Compressor with standard controls shall be capable of operation from 40°F (4°C), ambient outdoor temperatures. Accessory low ambient kit is necessary if mechanically cooling at ambient temperatures below 40°F (4°C).
  - 3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
  - 4. Unit shall be factory configured for vertical supply & return configurations.
  - 5. Unit shall be field convertible from vertical to horizontal configuration.

### 23 81 19.13.G. Electrical Requirements

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

### 23 81 19.13.H. Unit Cabinet

- 1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a baked enamel finish on all externally exposed surfaces.
- 2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003 inches minimum, gloss (per ASTM D523, 60°F): 60, Hardness: H-2H Pencil hardness.
- 3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 or 340/360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 3/4-in. thick, 1 lb density, flexible fiberglass insulation, aluminum foil-faced on the air side.
- 4. Base of unit shall have locations for thru-the-base electrical connections (factory installed or field installed), standard.
- 5. Base Rail
  - a. Unit shall have base rails on all sides.
  - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
  - c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
  - d. Base rail shall be a minimum of 14 gauge thickness.
- 6. Condensate pan and connections:
  - a. Shall be a sloped condensate drain pan made of a non-corrosive material.
  - b. Shall comply with ASHRAE Standard 62.
  - c. Shall use a 1" -11 1/2 NPT drain connection, through the side of the drain pan. Connection shall be made per manufacturer's recommendations.
- 7. Top panel:
  - a. Indoor section shall be a single piece top panel.
- 8. Electrical Connections
  - a. All unit power wiring shall enter unit cabinet at a single, factory-prepared, knockout location.
  - b. Thru-the-base capability
    - (1.) Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
    - (2.) No basepan penetration, other than those authorized by the manufacturer, is permitted.
- 9. Component access panels (standard)
  - a. Cabinet panels shall be easily removable for servicing.
  - b. Stainless steel metal hinges are standard on all doors.
  - c. Panels covering control box, indoor fan, indoor fan motor, and electric or gas heater components (where applicable), shall have 1/4 turn latches.

### 23 81 19.13.J. Coils

- 1. Standard Aluminum/Copper Coils: on all models.
  - a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  - b. Evaporator and Condenser coils shall be leak tested to 150 psig, pressure tested to 550 psig, and qualified to UL 1995 burst test at 2,200 psig.

### 23 81 19.13.K. Refrigerant Components

- 1. Refrigerant circuit shall include the following control, safety, and maintenance features:
  - a. Thermal Expansion Valve (TXV) with venturi type distributor except the 072 model which shall use small orifice refrigerant control expansion device.
  - b. Refrigerant filter drier.
  - c. External service gauge connections to unit suction and discharge lines.

#### 2. Compressors

- a. Unit shall use one fully hermetic, scroll compressor for each independent refrigeration circuit.
- b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
- d. Compressors shall be internally protected from high discharge temperature conditions.
- e. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
- f. Compressor shall be factory mounted on rubber grommets.
- g. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
- h. Crankcase heaters shall not be required for normal operating range.

### 23 81 19.13.L. Filter Section

- 1. Filters access is specified in the unit cabinet section of this specification.
- 2. Filters shall be held in place by a sliding filter tray, facilitating easy removal and installation.
- 3. Shall consist of factory-installed, low velocity, throw-away 2-in. thick fiberglass filters.
- 4. Filters shall be standard, commercially available sizes.
- 5. Filter face velocity shall not exceed 365 fpm at nominal airflows.

### 23 81 19.13.M. Evaporator Fan and Motor

- 1. Evaporator fan motor:
  - a. Shall have permanently lubricated bearings.
  - b. Shall have inherent automatic-reset thermal overload protection or circuit breaker.
  - c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
- 2. Belt-driven Evaporator Fan:
  - a. Belt drive shall include an adjustable-pitch motor pulley.
  - b. Shall use sealed, permanently lubricated ball-bearing type.
  - c. Blower fan shall be double-inlet type with forward-curved blades.
  - d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

### 23 81 19.13.N. Condenser Fans and Motors

- 1. Condenser fan motors:
  - a. Shall be a totally enclosed motor.
  - b. Shall use permanently lubricated bearings.
  - c. Shall have inherent thermal overload protection with an automatic reset feature.
  - d. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.
- 2. Condenser Fans:
  - a. Shall be a direct-driven propeller type fan.
  - b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

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

- 1. Integrated Economizers:
  - Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
  - b. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory installed option.
  - Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
  - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
  - Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
  - f. Shall be capable of introducing up to 100% outdoor air.
  - g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
  - h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
  - i. An outdoor single enthalpy sensor shall be provided as standard. Outdoor air sensor setpoint shall be adjustable and shall range from the enthalpy equivalent of 63°F @ 50% rh to 73°F @ 50% rh. Additional sensor options shall be available as accessories.
  - j. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 70%, with a range of 0% to 100%.
  - k. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper setpoint.
  - I. Dampers shall be completely closed when the unit is in the unoccupied mode.
  - m. Economizer controller shall accept a 2-10Vdc CO<sub>2</sub> sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.



- n. Compressor lockout sensor on the unit controller is factory set at 35°F and is adjustable from 30°F (-1°C) to 50°F (10°C) and resets the cooling lockout at 5°F (+2.7°C) above the set point...
- o. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- p. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
- q. Economizer wire harness will have provision for smoke detector.
- 2. Two-Position Motorized Damper
  - a. Damper shall be a Two-Position Motorized Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
  - b. Damper shall include adjustable damper travel from 25% to 100% (full open).
  - c. Damper shall include single or dual blade, gear driven dampers and actuator motor.
  - d. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.
  - e. Damper will admit up to 100% outdoor air for applicable rooftop units.
  - f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
  - g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
  - h. Outside air hood shall include aluminum water entrainment filter
- 3. Manual damper
  - a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year round ventilation.
- 4. Head Pressure Control Package
  - a. Controller shall control coil head pressure by condenser-fan cycling.
- 5. Condenser Coil Hail Guard Assembly
  - a. Shall protect against damage from hail.
  - b. Shall be louvered design.
- 6. Convenience Outlet:
  - a. Non-Powered convenience outlet.
    - (1.) Outlet shall be powered from a separate 115-120v power source.
    - (2.) A transformer shall not be included.
    - (3.) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
    - (4.) Outlet shall include 15 amp GFI receptacles.
    - (5.) Outlet shall be accessible from outside the unit.
- 7. Fan/Filter Status Switch:
  - a. Switch shall provide status of indoor evaporator fan (ON/OFF) or filter (CLEAN/DIRTY).
  - b. Status shall be displayed either over communication bus (when used with direct digital controls) or through the controller LCD display inside the unit control box.
- 8. Propeller Power Exhaust:
  - a. Power exhaust shall be used in conjunction with an integrated economizer.
  - b. Independent modules for vertical or horizontal return configurations shall be available.
  - c. Horizontal power exhaust is shall be mounted in return ductwork.
  - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
- 9. Roof Curbs (Vertical):
  - a. Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination.
  - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
  - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- 10. High-Static Indoor Fan Motor(s) and Drive(s):
  - a. High-static motor(s) and drive(s) shall be factory-installed to provide additional performance range.
- 11. Outdoor Air Enthalpy Sensor:
  - a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
- 13. Return Air Enthalpy Sensor:
  - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
- 14. Indoor Air Quality (CO<sub>2</sub>) Sensor:
  - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
  - b. The IAQ sensor shall be available in wall mount with LED display. The setpoint shall have adjustment capability.



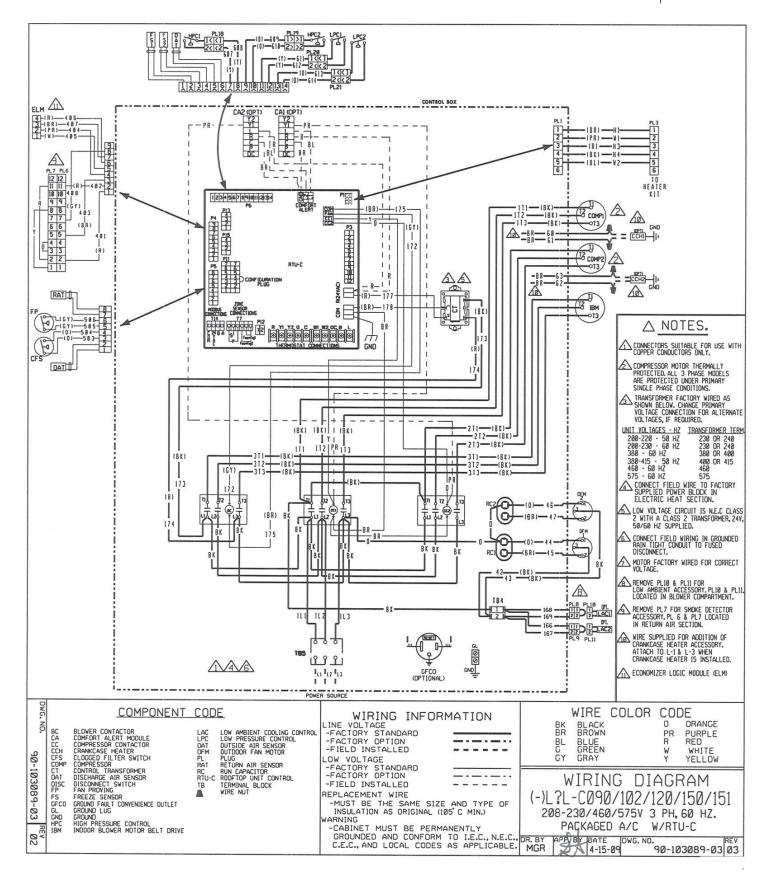
### 15. Smoke detectors:

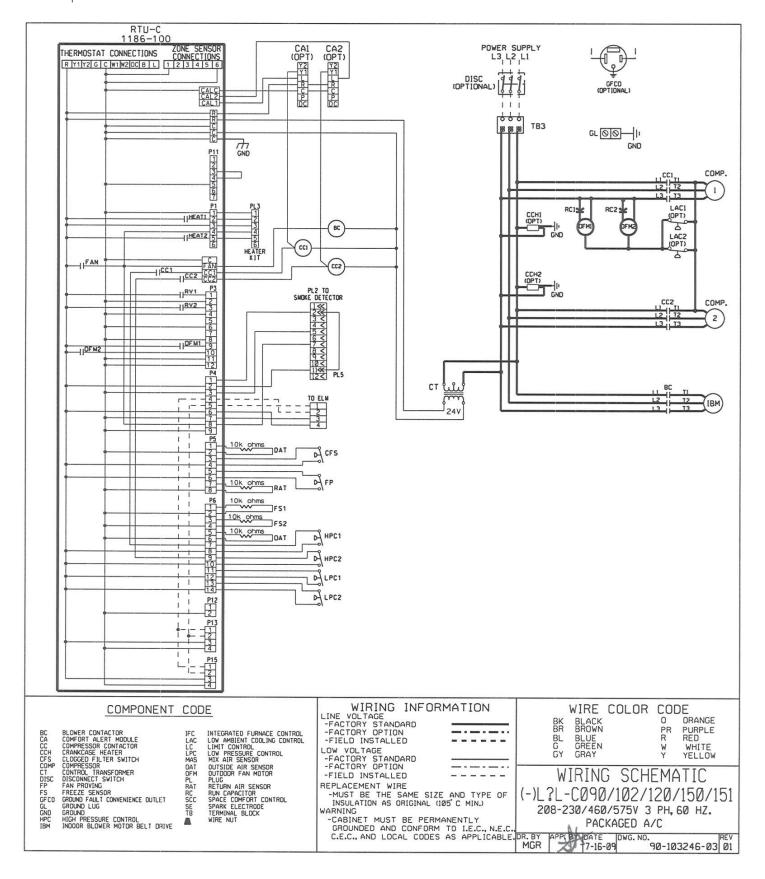
- a. Shall be a Four-Wire Controller and Detector.
- b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
- c. Shall use magnet-activated test/reset sensor switches.
- d. Shall have a recessed momentary switch for testing and resetting the detector.
- e. Controller shall include:
  - (1.) One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
  - (2.) Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
  - (3.) One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
  - (4.) Capable of direct connection to two individual detector modules.
  - (5.) Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.

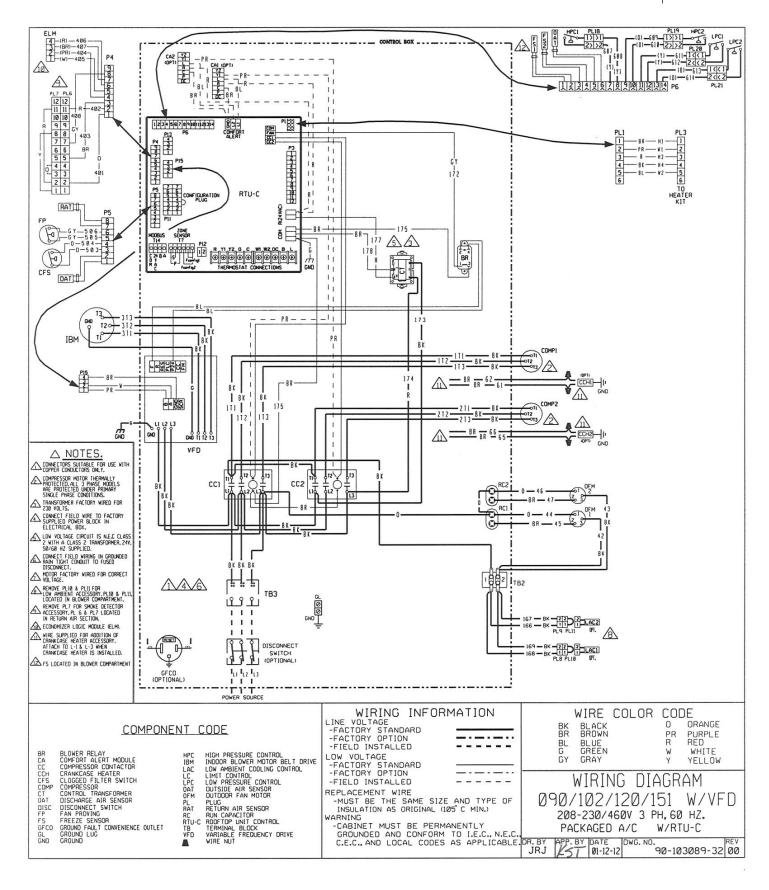
### 16. Electric Heat:

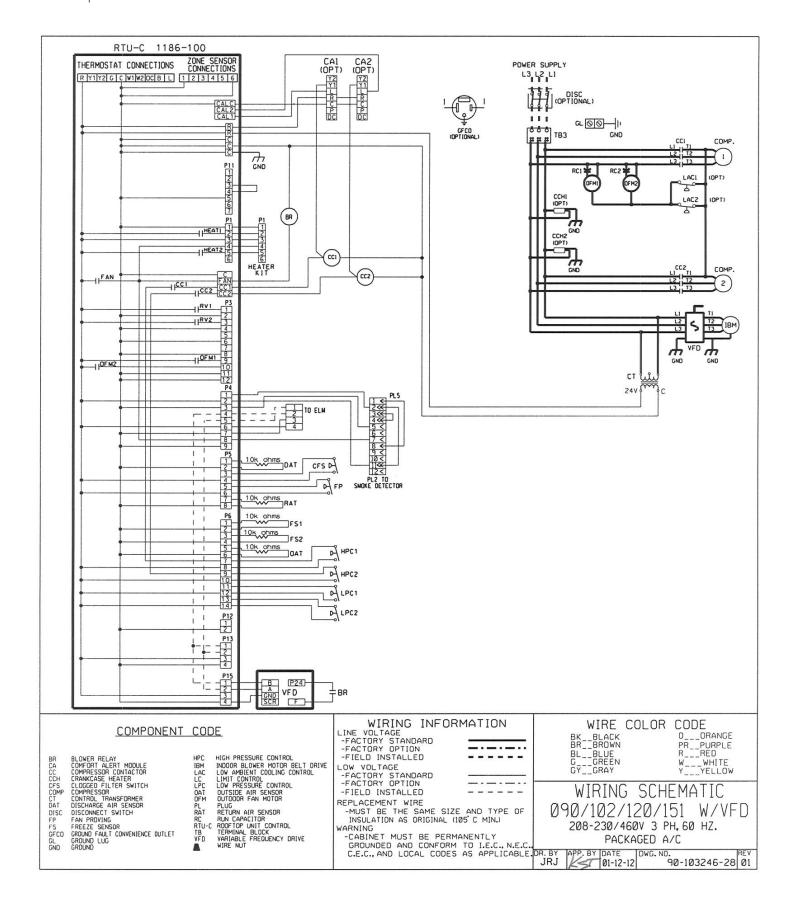
- a. Heating Section
  - (1.) Heater element open coil resistance wire, nickel-chrome alloy, strung through ceramic insulators mounted on metal frame. Coil ends are staked and welded to terminal screw slots.
  - (2.) Heater assemblies are provided with integral fusing for protection of internal heater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













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

# **GENERAL TERMS OF LIMITED WARRANTY\***

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

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

Com	pressor
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3 Phase, Commercial Applications.....Five (5) Years

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



In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

