



The new degree of comfort.™



Air

Package Air Conditioner  
RLPN-C/RLQN-C Series

## Rheem *Commercial Classic*® Series Package Air Conditioner



### **RLPN-C 14 SEER Series**

With ClearControl™

Nominal Sizes 3-5 Tons [10.6-17.6 kW]

### **RLQN-C 15 SEER Series**

With ClearControl™

Nominal Sizes 3-5 Tons [10.6-17.6 kW]



(15 SEER/12.0 EER  
AND ABOVE ONLY)



**"Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your Contractor for details or visit [www.energystar.gov](http://www.energystar.gov)."**

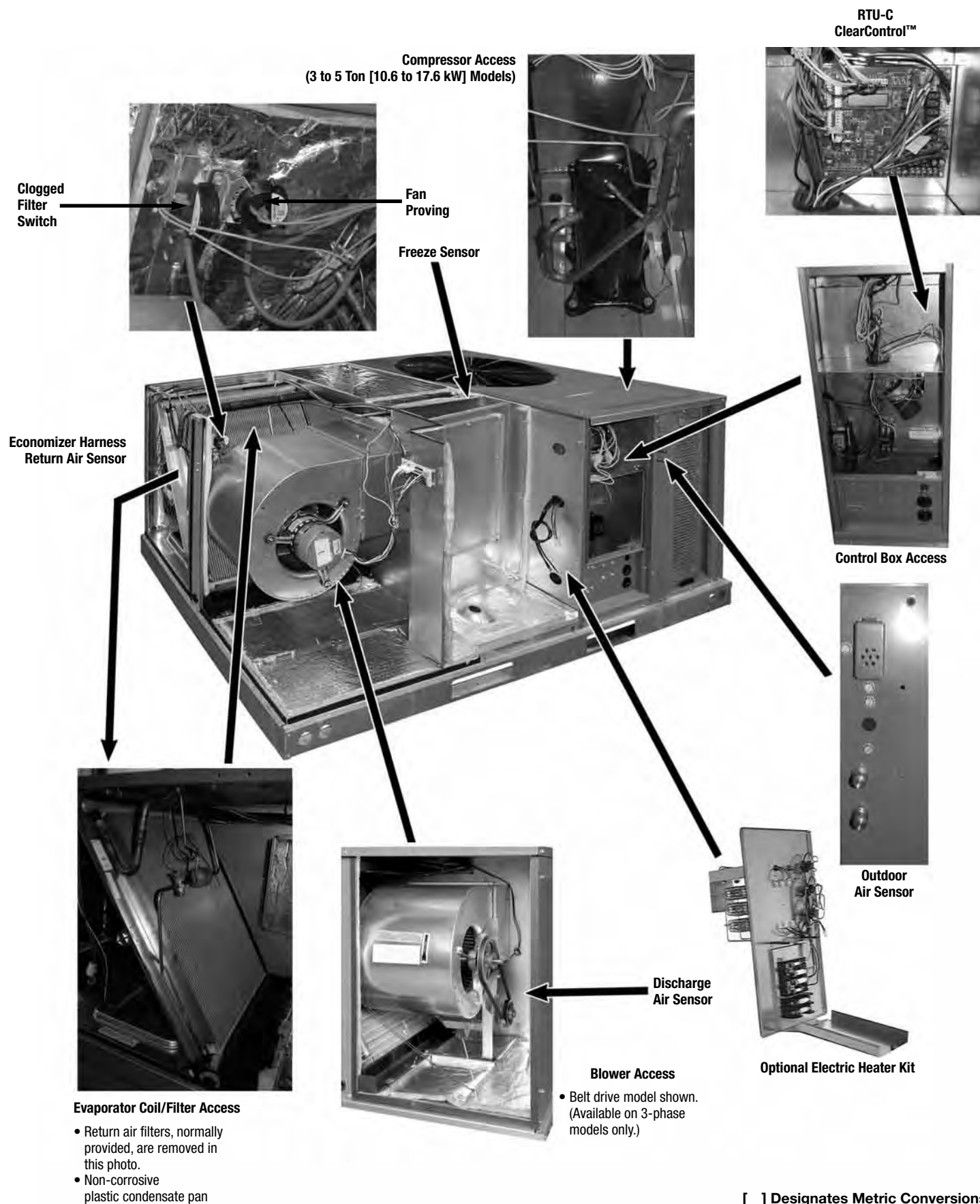


INTEGRATED AIR & WATER

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## Package Air Conditioner Features:



[ ] Designates Metric Conversions



**RLPN - C036, C048, C060**  
**RLQN - C036, C048, C060**

## RLPN-C/RLQN-C 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.
- Single stage compressor on all models. (except RLQN-C060 which utilizes 2 stage Ultra tech)
- Convertible airflow.
- 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, Micro Channel designed evaporator coil facilitates easy cleaning for maintained high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Hinge door available as a factory installed option.
- Easily removable filter, blower, electric heat, and control access panels permits prompt service.
- Paint Finish meets ASTM B117 for maximum protection. G90 galvanized steel.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Externally mounted refrigerant gauge ports for easy service diagnostics.
- Factory or field-installed electric heat kits available up to 24 kW.
- Easy to install plug-in; slip in, 100% fully modulating economizer.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 1 inch filter standard with slide out design.
- Colored and labeled wiring.
- Molded compressor plug.
- Factory Installed ClearControl™, a Direct Digital Control (DDC) and sensors which can connect to LonWorks™ or BACnet® BAS systems for remote monitoring and control.
- Micro Channel evaporator and condenser coils deliver superior performance with less refrigerant charge and less weight than conventional copper tube/aluminum fin coils. In addition the all aluminum construction has superior protection against formicary corrosion and aluminum tube rubbing potential. Its easier to clean and has a more robust surface.

As part of the ClearControl™ system which allows real time monitoring and communication between rooftop units, the RLPN-C Package Air Conditioner has a Rooftop Unit Controller (RTU-C) factory mounted and wired in the control panel. The RTU-C is a solid-state microprocessor-based control board that provides flexible control and extensive diagnostics for all unit functions. The RTU-C 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. 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 RLPN-C Package air Conditioner with the RTU-C is specifically designed to be applied in four distinct applications:

The RLPN-C is compatible with a third party building management system that supports the BACnet Application Specific Controller device profile, with the use of a field installed BACnet Communication Module. The BACnet Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network. A zone sensor, a BACnet network zone sensor, a BACnet thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The BACnet Communication Module is compatible with MSTP EIA-485 daisy chain networks communicating at 38.4 bps. It is compatible with twisted pair, shielded cables.

The RLPN-C is compatible with a third party building management system that supports the LonMark Space Comfort controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field installed LonMark communication module. The LonMark

Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks Network. A zone sensor, a LonTalk network zone sensor, or a LonTalk thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The LonMark Communication Module utilizes an FTT-10A free topology transceiver communicating at 78.8 kbps. It is compatible with Echelon qualified twisted pair cable, Belden 8471 or NEMA Level 4 cables. The Module can communicate up to 1640 ft. with no repeater. The LonWorks limits of 64 nodes per segment applies to this device.

The RLPN-C 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.

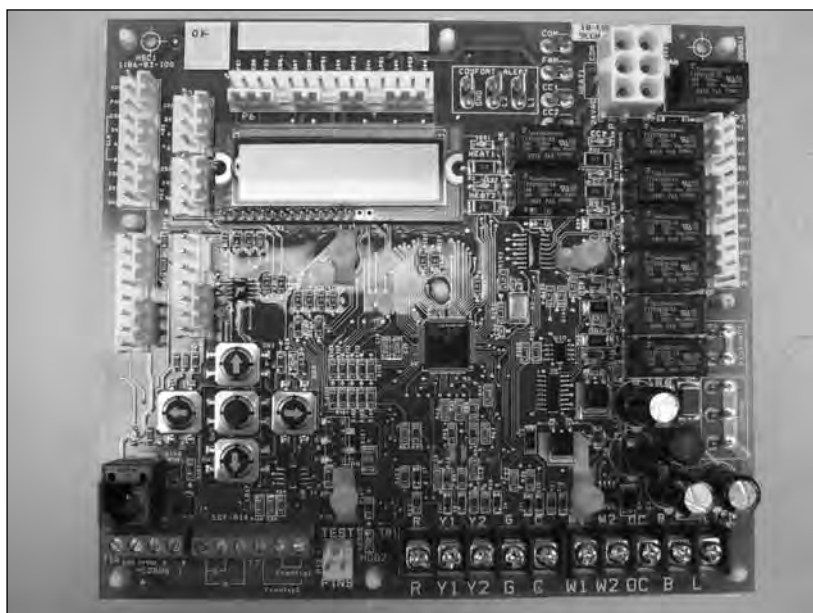
The RLPN-C is compatible with a zone sensor and mechanical or solid state time clock connected to the RTU-C. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

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 or connected to the “L-Terminal” of a thermostat for notification.

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.

### RTU-C/ClearControl™



## HUMIDIDRY™ DEHUMIDIFICATION SYSTEM

With the factory installed dehumidification option, in addition to a thermostat or space temperature sensor that is normally present, an indoor relative humidity sensor is installed in the occupied space and connected to the Rooftop Unit Controller (RTU-C) which then controls the capacity of the cooling coil to remove moisture from the supply air and maintain space relative humidity below an adjustable limit visible on the RTU-C display. The default value is the ASHRAE recommended limit of 60% RH.

With this option, a refrigerant reheat coil is installed downstream from the evaporator coil. When the space humidity is too high and reheat is energized, this coil uses some of the heat that is normally rejected to the outside by the condenser coil to instead reheat the cold air from the evaporator coil just enough to avoid overcooling the space. Providing "neutral air" to the occupied space.

Because the demand for dehumidification can be different from the cooling demand, the unit will first satisfy the demand for cooling and then if the space humidity is still too high, dehumidification mode is energized. When in dehumidification mode, the supply air leaving the unit will be near the entering air temperature, but at a much lower humidity. The unit will exit the dehumidification mode when the humidity setpoint is satisfied; or if the load is increased, it will return to normal cooling mode. Reheat is not available during the gas heating mode.

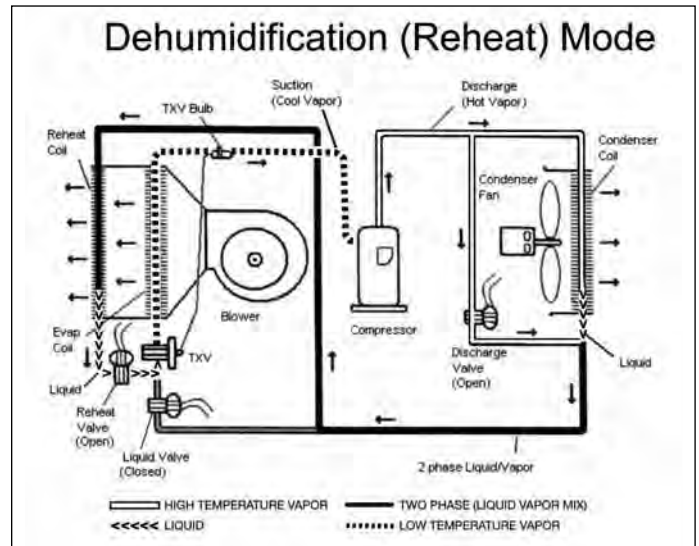


Figure 2 shows the refrigerant path during the dehumidification mode. When the reheat cycle is energized by the RTU-C, a solenoid valve downstream of the reheat coil opens, a solenoid valve ahead of the TXV closes, and a solenoid valve in the compressor discharge line opens. The liquid refrigerant leaves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

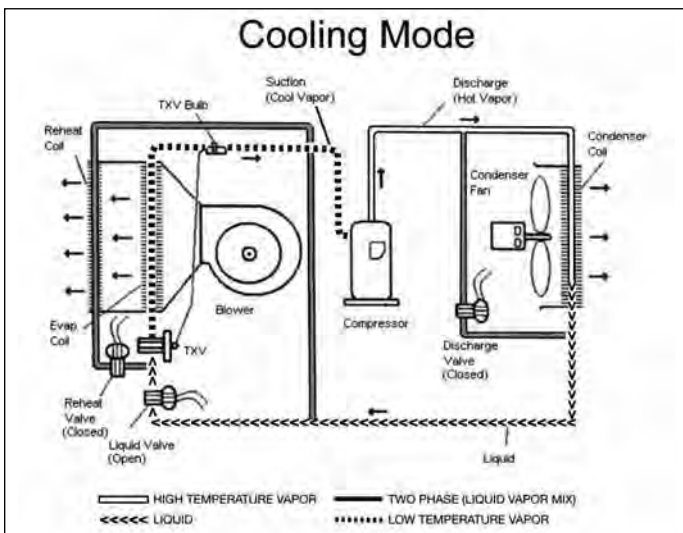
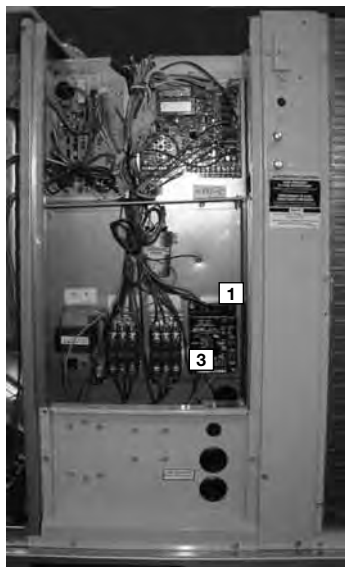


Figure 1 shows the refrigerant path during the normal cooling mode. The liquid refrigerant leaves the TXV with the sudden pressure drop causing the liquid to expand to a vapor and absorbing the heat from the supply air going through the evaporator coil. The refrigerant vapor then travels to the compressor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

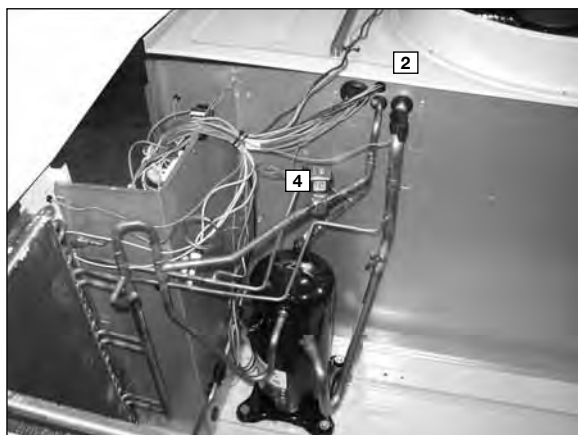
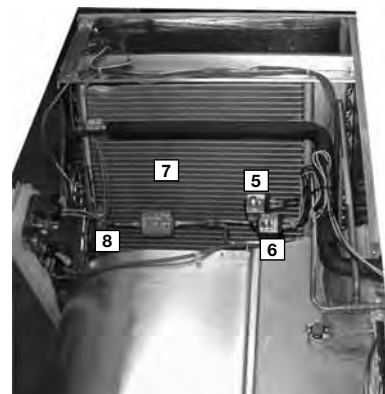
## HUMIDIDRY™ DEHUMIDIFICATION SYSTEM

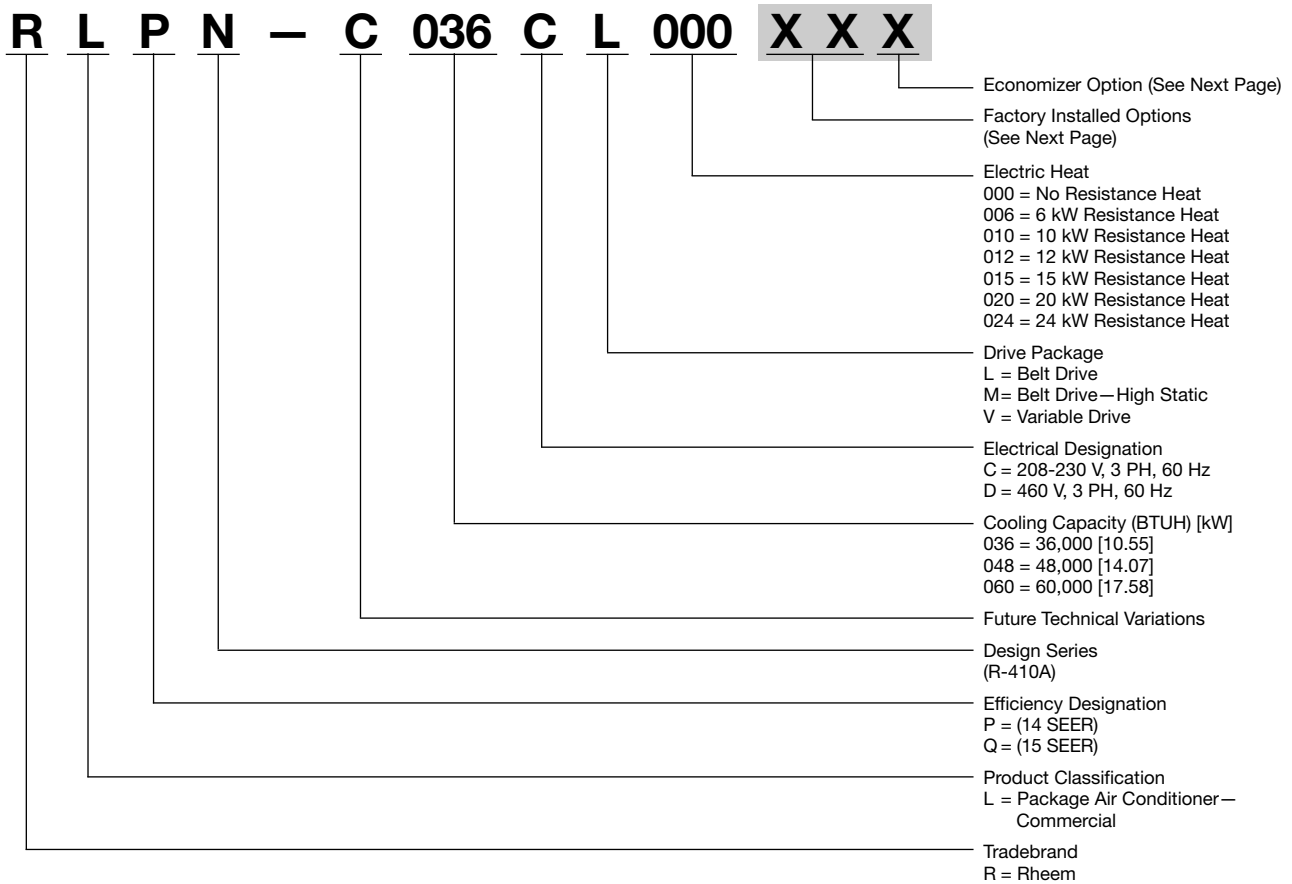
The factory installed dehumidification consist of the following components:  
 Outdoor Fan Motor Controller, Liquid Line Sensor, Discharge Line Solenoid Valve, Liquid Line Solenoid Valve, Reheat Solenoid Valve & Reheat coil.

During reheat mode the ([1]) outdoor fan motor controller (OFMC) slows the outdoor fan(s) to increase the liquid temperature to maintain an optimized amount of reheat required to provide neutral air to the occupied space. The OFMC uses a temperature sensor which is located on the liquid line ([2]) in the outdoor section to determine the temperature of the liquid line. The factory setting for the outdoor fan motor controller is 90° F which will provide neutral air +1 to -5°F from the entering air temperature (example if the entering or return air temperature is 75° F the leaving or supply air temperature will be 76° to 70°F during the reheat mode). If field adjustment is required to raise or lower the leaving air temperature this may be accomplished by turning the temperature control dial ([3]) on the outdoor fan motor controller (OFMC). Turning the dial to a higher temperature setting will raise the leaving or supply air temperature and turning the dial to a lower setting will reduce the leaving or supply temperature.



When the unit is in the dehumidification mode the discharge line solenoid valve ([4]) opens which injects discharge gas into the liquid line increasing the liquid line refrigerant temperature. In the reheat mode the liquid line solenoid ([5]) is closed and the reheat solenoid ([6]) is open. This forces the two phase refrigerant thru the reheat coil ([7]) where it is subcooled and then to the evaporator expansion valve ([8]).





[ ] Designates Metric Conversions

## FACTORY INSTALLED OPTION CODES FOR RLPN-C/RLQN-C (3-5 Ton) [10.6-17.6 kW] (C036, C048, C060)

| Option Code | Hail Guard | Non-Powered Convenience Outlet | Low Ambient/ Comfort Alert | Hinged Doors |
|-------------|------------|--------------------------------|----------------------------|--------------|
| AD          | x          |                                |                            |              |
| AG          |            | x                              |                            |              |
| AR          |            |                                | x                          |              |
| AV          |            |                                |                            | x            |
| JD          | x          |                                | x                          |              |
| BJ          | x          | x                              |                            |              |
| CZ          | x          | x                              | x                          |              |
| JE          |            | x                              | x                          |              |
| JK          | x          |                                |                            | x            |
| JL          |            | x                              |                            | x            |
| JQ          |            |                                | x                          | x            |
| KH          | x          |                                | x                          | x            |
| KD          | x          | x                              |                            | x            |
| DT          | x          | x                              | x                          | x            |
| KL          |            | x                              | x                          | x            |

Example: RLPN-C060CL000XXX (where XX is factory installed option)

Example: No Options

RLPN-C060CL000

Example: No Options with Factory Installed Economizer

RLPN-C060CL000AAH

Example: Options with Hailguard with no Factory Installed Economizer

RLPN-C060CL000ADA

Example: Options same as above with Factory Installed Economizer

RLPN-C060CL000ADH

Re-Heat Code

555= Factory Installed Re-Heat

Example: RLPN-C060CL000XXX (where XXX is additional factory installed options)

Example: No Option

RLPN-C060CL000

Example: Re-Heat Option Only

RLPN-C060CL000555

Example: Re-Heat with factory installed economizer

RKPN-C060CL000555AAH

Example: Re-Heat with Hailguard and no factory installed economizer

RLPN-C060CL000555ADA

Example: Re-Heat Option same as above with factory installed economizer

RLPN-C060CL000555ADH

Note: "555" RE-HEAT AVAILABLE ON "C" TECHNICAL VARIATIONS; C/D VOLTAGES ONLY)

## ECONOMIZER SELECTION FOR RLPN-C/RLQN-C (3-5 TON) [10.6-17.6 kW]

|   | No Economizer | DDC Single Enthalpy Economizer With Barometric Relief | DDC Single Enthalpy Economizer With Barometric Relief and Smoke Detector |
|---|---------------|-------------------------------------------------------|--------------------------------------------------------------------------|
| A | x             |                                                       |                                                                          |
| H |               | x                                                     |                                                                          |
| J |               |                                                       | x                                                                        |

"x" indicates factory installed option.

[ ] Designates Metric Conversions

## RLPN-C SELECTION PROCEDURES

### 1. Determine cooling and heating requirements at design conditions.

Example:

Power supply .....208/230 - 3 Phase  
Total cooling capacity .....42,500 BTUH [12.44 kW]  
Sensible cooling capacity .....34,000 BTUH [9.96 kW]  
Heating capacity .....None  
Condenser entering air .....95°F [35°C]  
Evaporator entering air.....63°F [17°C] wb/76°F [24°C] db  
Indoor air flow .....1600 CFM [755 L/s]  
External static pressure .....1.1 in wg  
Required efficiency .....13 SEER

### 2. Select unit to meet cooling requirements.

Since total cooling is within the range of 4 ton [14.07 kW] unit and requires 13 SEER efficiency level, enter cooling performance from the RLPN-C048 table, at 95°F [35°C] outdoor temperature, 63°F [17°C] wb entering indoor air, and 1600 CFM [755 L/s]:

Total capacity .....45,100 BTUH [13.21 kW]  
Power supply .....44,100 BTUH [12.91 kW]  
Power input .....3.6 kW

And also, at 76°F [24°C] db indoor entering air, and using the formula at the bottom of the page:

Sensible capacity .....38,327 BTUH [11.22 kW]

### 3. Determine blower speed and power to meet the system requirements.

At the given external static pressure of 1.1 in wg, the belt model must be selected. Enter the belt drive blower performance table at 1600 CFM [755 L/s] and 1.1 in wg ESP:

RPM .....1195  
Watts .....755  
Drive .....M

### 4. Calculate indoor blower BTUH heat effect.

BTUH = Watts x 3.413 = 2577

### 5. Calculate net cooling capacities.

Net total cooling = 45,100 – 2577 = 42,523 BTUH [12.45 kW]  
Net sensible cooling = 36,908 – 2577 = 35,750 BTUH [10.06 kW]

### 6. Select Model

RLPN-C048CM000

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLPN- Series                           | C036CL000                                          | C036CM000                                          | C036DL000                                          | C036DM000                                          |
|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                                                    |                                                    |                                                    | <b>CONTINUED →</b>                                 |
| Gross Cooling Capacity Btu [kW]              | 36,200 [10.61]                                     | 36,200 [10.61]                                     | 36,200 [10.61]                                     | 36,200 [10.61]                                     |
| EER/SEER <sup>2</sup>                        | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            |
| Nominal CFM/AHRI Rated CFM [L/s]             | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                |
| AHRI Net Cooling Capacity Btu [kW]           | 34,600 [10.14]                                     | 34,600 [10.14]                                     | 34,600 [10.14]                                     | 34,600 [10.14]                                     |
| Net Sensible Capacity Btu [kW]               | 25,300 [7.41]                                      | 25,300 [7.41]                                      | 25,300 [7.41]                                      | 25,300 [7.41]                                      |
| Net Latent Capacity Btu [kW]                 | 9,300 [2.72]                                       | 9,300 [2.72]                                       | 9,300 [2.72]                                       | 9,300 [2.72]                                       |
| Net System Power kW                          | 2.95                                               | 2.95                                               | 2.95                                               | 2.95                                               |
| <b>Compressor</b>                            |                                                    |                                                    |                                                    |                                                    |
| No./Type                                     | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> | 78                                                 | 78                                                 | 78                                                 | 78                                                 |
| <b>Outdoor Coil—Fin Type</b>                 | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                           |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           |
| Face Area sq. ft. [sq. m]                    | 13.9 [1.29]                                        | 13.9 [1.29]                                        | 13.9 [1.29]                                        | 13.9 [1.29]                                        |
| Rows / FPI [FPcm]                            | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         |
| <b>Indoor Coil—Fin Type</b>                  | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                           |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 1 [25]                                             | 1 [25]                                             | 1 [25]                                             | 1 [25]                                             |
| Face Area sq. ft. [sq. m]                    | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         |
| Rows / FPI [FPcm]                            | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         |
| Refrigerant Control                          | TX Valves                                          | TX Valves                                          | TX Valves                                          | TX Valves                                          |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     |
| <b>Outdoor Fan—Type</b>                      | Propeller                                          | Propeller                                          | Propeller                                          | Propeller                                          |
| No. Used/Diameter in. [mm]                   | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       |
| Drive Type/No. Speeds                        | Direct/1                                           | Direct/1                                           | Direct/1                                           | Direct/1                                           |
| CFM [L/s]                                    | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        |
| No. Motors/HP                                | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        |
| Motor RPM                                    | 1075                                               | 1075                                               | 1075                                               | 1075                                               |
| <b>Indoor Fan—Type</b>                       | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     |
| No. Used/Diameter in. [mm]                   | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  |
| Drive Type                                   | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  |
| No. Speeds                                   | Single                                             | Single                                             | Single                                             | Single                                             |
| No. Motors                                   | 1                                                  | 1                                                  | 1                                                  | 1                                                  |
| Motor HP                                     | 1/2                                                | 1/2                                                | 1/2                                                | 1/2                                                |
| Motor RPM                                    | 1725                                               | 1725                                               | 1725                                               | 1725                                               |
| Motor Frame Size                             | 48                                                 | 56                                                 | 48                                                 | 56                                                 |
| <b>Filter—Type</b>                           | Disposable                                         | Disposable                                         | Disposable                                         | Disposable                                         |
| Furnished                                    | Yes                                                | Yes                                                | Yes                                                | Yes                                                |
| (NO.) Size Recommended in. [mm x mm x mm]    | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            | 54 [1531]                                          | 54 [1531]                                          | 54 [1531]                                          | 54 [1531]                                          |
| <b>Weights</b>                               |                                                    |                                                    |                                                    |                                                    |
| Net Weight lbs. [kg]                         | 485 [220]                                          | 485 [220]                                          | 485 [220]                                          | 485 [220]                                          |
| Ship Weight lbs. [kg]                        | 492 [223]                                          | 492 [223]                                          | 492 [223]                                          | 492 [223]                                          |

### NOTES:

- 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 210/240 or 360.
- EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions



## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLPN- Series                           | C048CL000               | C048CM000               | C048DL000               | C048DM000               |
|----------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                         |                         |                         | <b>CONTINUED →</b>      |
| Gross Cooling Capacity Btu [kW]              | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          |
| EER/SEER <sup>2</sup>                        | 11.6/14                 | 11.6/14                 | 11.6/14                 | 11.6/14                 |
| Nominal CFM/AHRI Rated CFM [L/s]             | 1600/1500 [755/708]     | 1600/1500 [755/708]     | 1600/1500 [755/708]     | 1600/1500 [755/708]     |
| AHRI Net Cooling Capacity Btu [kW]           | 46,000 [13.48]          | 46,000 [13.48]          | 46,000 [13.48]          | 46,000 [13.48]          |
| Net Sensible Capacity Btu [kW]               | 34,000 [9.96]           | 34,000 [9.96]           | 34,000 [9.96]           | 34,000 [9.96]           |
| Net Latent Capacity Btu [kW]                 | 12,000 [3.52]           | 12,000 [3.52]           | 12,000 [3.52]           | 12,000 [3.52]           |
| Net System Power kW                          | 3.93                    | 3.93                    | 3.93                    | 3.93                    |
| <b>Compressor</b>                            |                         |                         |                         |                         |
| No./Type                                     | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> |                         |                         |                         |                         |
|                                              | 78                      | 78                      | 78                      | 78                      |
| <b>Outdoor Coil—Fin Type</b>                 |                         |                         |                         |                         |
| Tube Type                                    | Louvered                | Louvered                | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel            | MicroChannel            | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 0.7 [18]                | 0.7 [18]                | 0.7 [18]                | 0.7 [18]                |
| Rows / FPI [FPcm]                            | 16.4 [1.52]             | 16.4 [1.52]             | 16.4 [1.52]             | 16.4 [1.52]             |
|                                              | 1 / 23 [9]              | 1 / 23 [9]              | 1 / 23 [9]              | 1 / 23 [9]              |
| <b>Indoor Coil—Fin Type</b>                  |                         |                         |                         |                         |
| Tube Type                                    | Louvered                | Louvered                | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel            | MicroChannel            | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.3 [32]                | 1.3 [32]                | 1.3 [32]                | 1.3 [32]                |
| Rows / FPI [FPcm]                            | 4.8 [0.45]              | 4.8 [0.45]              | 4.8 [0.45]              | 4.8 [0.45]              |
|                                              | 1 / 20 [8]              | 1 / 20 [8]              | 1 / 20 [8]              | 1 / 20 [8]              |
| Refrigerant Control                          | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                      |                         |                         |                         |                         |
| No. Used/Diameter in. [mm]                   | Propeller               | Propeller               | Propeller               | Propeller               |
| Drive Type/No. Speeds                        | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| CFM [L/s]                                    | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| No. Motors/HP                                | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| Motor RPM                                    | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
|                                              | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>                       |                         |                         |                         |                         |
| No. Used/Diameter in. [mm]                   | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| Drive Type                                   | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| No. Speeds                                   | Belt (Adjustable)       | Belt (Adjustable)       | Belt (Adjustable)       | Belt (Adjustable)       |
| No. Motors                                   | Single                  | Single                  | Single                  | Single                  |
| Motor HP                                     | 1                       | 1                       | 1                       | 1                       |
| Motor RPM                                    | 1/2                     | 3/4                     | 1/2                     | 3/4                     |
| Motor Frame Size                             | 1725                    | 1725                    | 1725                    | 1725                    |
|                                              | 48                      | 56                      | 48                      | 56                      |
| <b>Filter—Type</b>                           |                         |                         |                         |                         |
| Furnished                                    | Disposable              | Disposable              | Disposable              | Disposable              |
| (NO.) Size Recommended in. [mm x mm x mm]    | Yes                     | Yes                     | Yes                     | Yes                     |
|                                              | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|                                              | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            |                         |                         |                         |                         |
|                                              | 68 [1928]               | 68 [1928]               | 68 [1928]               | 68 [1928]               |
| <b>Weights</b>                               |                         |                         |                         |                         |
| Net Weight lbs. [kg]                         | 509 [231]               | 510 [231]               | 509 [231]               | 510 [231]               |
| Ship Weight lbs. [kg]                        | 516 [234]               | 517 [235]               | 516 [234]               | 517 [235]               |

## NOTES:

- 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 210/240 or 360.
- EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLPN- Series                           | C060CL000                                          | C060CM000                                          | C060DL000                                          | C060DM000                                          |
|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                                                    |                                                    |                                                    |                                                    |
| Gross Cooling Capacity Btu [kW]              | 60,000 [17.58]                                     | 60,000 [17.58]                                     | 60,000 [17.58]                                     | 60,000 [17.58]                                     |
| EER/SEER <sup>2</sup>                        | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            |
| Nominal CFM/AHRI Rated CFM [L/s]             | 2000/1800 [944/849]                                | 2000/1800 [944/849]                                | 2000/1800 [944/849]                                | 2000/1800 [944/849]                                |
| AHRI Net Cooling Capacity Btu [kW]           | 58,500 [17.14]                                     | 58,500 [17.14]                                     | 58,500 [17.14]                                     | 58,500 [17.14]                                     |
| Net Sensible Capacity Btu [kW]               | 41,700 [12.22]                                     | 41,700 [12.22]                                     | 41,700 [12.22]                                     | 41,700 [12.22]                                     |
| Net Latent Capacity Btu [kW]                 | 16,800 [4.92]                                      | 16,800 [4.92]                                      | 16,800 [4.92]                                      | 16,800 [4.92]                                      |
| Net System Power kW                          | 4.95                                               | 4.95                                               | 4.95                                               | 4.95                                               |
| <b>Compressor</b>                            |                                                    |                                                    |                                                    |                                                    |
| No./Type                                     | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> |                                                    |                                                    |                                                    |                                                    |
|                                              | 83                                                 | 83                                                 | 83                                                 | 83                                                 |
| <b>Outdoor Coil—Fin Type</b>                 |                                                    |                                                    |                                                    |                                                    |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           |
| Face Area sq. ft. [sq. m]                    | 16.4 [1.52]                                        | 16.4 [1.52]                                        | 16.4 [1.52]                                        | 16.4 [1.52]                                        |
| Rows / FPI [FPcm]                            | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         |
| <b>Indoor Coil—Fin Type</b>                  |                                                    |                                                    |                                                    |                                                    |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 1.3 [32]                                           | 1.3 [32]                                           | 1.3 [32]                                           | 1.3 [32]                                           |
| Face Area sq. ft. [sq. m]                    | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         |
| Rows / FPI [FPcm]                            | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         |
| Refrigerant Control                          | TX Valves                                          | TX Valves                                          | TX Valves                                          | TX Valves                                          |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     |
| <b>Outdoor Fan—Type</b>                      |                                                    |                                                    |                                                    |                                                    |
| Propeller                                    | Propeller                                          | Propeller                                          | Propeller                                          | Propeller                                          |
| No. Used/Diameter in. [mm]                   | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       |
| Drive Type/No. Speeds                        | Direct/1                                           | Direct/1                                           | Direct/1                                           | Direct/1                                           |
| CFM [L/s]                                    | 3930 [1855]                                        | 3930 [1855]                                        | 3930 [1855]                                        | 3930 [1855]                                        |
| No. Motors/HP                                | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        |
| Motor RPM                                    | 1075                                               | 1075                                               | 1075                                               | 1075                                               |
| <b>Indoor Fan—Type</b>                       |                                                    |                                                    |                                                    |                                                    |
| FC Centrifugal                               | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     |
| No. Used/Diameter in. [mm]                   | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  |
| Drive Type                                   | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  |
| No. Speeds                                   | Single                                             | Single                                             | Single                                             | Single                                             |
| No. Motors                                   | 1                                                  | 1                                                  | 1                                                  | 1                                                  |
| Motor HP                                     | 3/4                                                | 1                                                  | 3/4                                                | 1                                                  |
| Motor RPM                                    | 1725                                               | 1725                                               | 1725                                               | 1725                                               |
| Motor Frame Size                             | 56                                                 | 56                                                 | 56                                                 | 56                                                 |
| <b>Filter—Type</b>                           |                                                    |                                                    |                                                    |                                                    |
| Disposable                                   | Disposable                                         | Disposable                                         | Disposable                                         | Disposable                                         |
| Furnished                                    | Yes                                                | Yes                                                | Yes                                                | Yes                                                |
| (NO.) Size Recommended in. [mm x mm x mm]    | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            |                                                    |                                                    |                                                    |                                                    |
|                                              | 63 [1786]                                          | 63 [1786]                                          | 63 [1786]                                          | 63 [1786]                                          |
| <b>Weights</b>                               |                                                    |                                                    |                                                    |                                                    |
| Net Weight lbs. [kg]                         | 517 [235]                                          | 522 [237]                                          | 517 [235]                                          | 522 [237]                                          |
| Ship Weight lbs. [kg]                        | 524 [238]                                          | 529 [240]                                          | 524 [238]                                          | 529 [240]                                          |

## 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions



## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLPN- Series                           | C036CL*555                                         | C036CM*555                                         | C036DL*555                                         | C036DM*555                                         |
|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                                                    |                                                    |                                                    | <b>CONTINUED →</b>                                 |
| Gross Cooling Capacity Btu [kW]              | 36,200 [10.61]                                     | 36,200 [10.61]                                     | 36,200 [10.61]                                     | 36,200 [10.61]                                     |
| EER/SEER <sup>2</sup>                        | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            |
| Nominal CFM/AHRI Rated CFM [L/s]             | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                |
| AHRI Net Cooling Capacity Btu [kW]           | 34,600 [10.14]                                     | 34,600 [10.14]                                     | 34,600 [10.14]                                     | 34,600 [10.14]                                     |
| Net Sensible Capacity Btu [kW]               | 25,300 [7.41]                                      | 25,300 [7.41]                                      | 25,300 [7.41]                                      | 25,300 [7.41]                                      |
| Net Latent Capacity Btu [kW]                 | 9,300 [2.72]                                       | 9,300 [2.72]                                       | 9,300 [2.72]                                       | 9,300 [2.72]                                       |
| Net System Power kW                          | 2.95                                               | 2.95                                               | 2.95                                               | 2.95                                               |
| <b>Compressor</b>                            |                                                    |                                                    |                                                    |                                                    |
| No./Type                                     | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> | 78                                                 | 78                                                 | 78                                                 | 78                                                 |
| <b>Outdoor Coil—Fin Type</b>                 | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                           |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           |
| Face Area sq. ft. [sq. m]                    | 13.9 [1.29]                                        | 13.9 [1.29]                                        | 13.9 [1.29]                                        | 13.9 [1.29]                                        |
| Rows / FPI [FPcm]                            | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         |
| <b>Indoor Coil—Fin Type</b>                  | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                           |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 1 [25]                                             | 1 [25]                                             | 1 [25]                                             | 1 [25]                                             |
| Face Area sq. ft. [sq. m]                    | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         |
| Rows / FPI [FPcm]                            | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         |
| Refrigerant Control                          | TX Valves                                          | TX Valves                                          | TX Valves                                          | TX Valves                                          |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     |
| <b>Outdoor Fan—Type</b>                      | Propeller                                          | Propeller                                          | Propeller                                          | Propeller                                          |
| No. Used/Diameter in. [mm]                   | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       |
| Drive Type/No. Speeds                        | Direct/1                                           | Direct/1                                           | Direct/1                                           | Direct/1                                           |
| CFM [L/s]                                    | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        |
| No. Motors/HP                                | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        |
| Motor RPM                                    | 1075                                               | 1075                                               | 1075                                               | 1075                                               |
| <b>Indoor Fan—Type</b>                       | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     |
| No. Used/Diameter in. [mm]                   | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  |
| Drive Type                                   | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  |
| No. Speeds                                   | Single                                             | Single                                             | Single                                             | Single                                             |
| No. Motors                                   | 1                                                  | 1                                                  | 1                                                  | 1                                                  |
| Motor HP                                     | 1/2                                                | 1/2                                                | 1/2                                                | 1/2                                                |
| Motor RPM                                    | 1725                                               | 1725                                               | 1725                                               | 1725                                               |
| Motor Frame Size                             | 48                                                 | 56                                                 | 48                                                 | 56                                                 |
| <b>Filter—Type</b>                           | Disposable                                         | Disposable                                         | Disposable                                         | Disposable                                         |
| Furnished                                    | Yes                                                | Yes                                                | Yes                                                | Yes                                                |
| (NO.) Size Recommended in. [mm x mm x mm]    | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            | 86 [2438]                                          | 86 [2438]                                          | 86 [2438]                                          | 86 [2438]                                          |
| <b>Weights</b>                               |                                                    |                                                    |                                                    |                                                    |
| Net Weight lbs. [kg]                         | 485 [220]                                          | 485 [220]                                          | 485 [220]                                          | 485 [220]                                          |
| Ship Weight lbs. [kg]                        | 492 [223]                                          | 492 [223]                                          | 492 [223]                                          | 492 [223]                                          |

## NOTES:

- 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 210/240 or 360.
- EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLPN- Series                           | C048CL*555                                         | C048CM*555                                         | C048DL*555                                         | C048DM*555                                                                                           |
|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                                                    |                                                    |                                                    | <b>CONTINUED</b>  |
| Gross Cooling Capacity Btu [kW]              | 48,000 [14.06]                                     | 48,000 [14.06]                                     | 48,000 [14.06]                                     | 48,000 [14.06]                                                                                       |
| EER/SEER <sup>2</sup>                        | 11.6/14                                            | 11.6/14                                            | 11.6/14                                            | 11.6/14                                                                                              |
| Nominal CFM/AHRI Rated CFM [L/s]             | 1600/1500 [755/708]                                | 1600/1500 [755/708]                                | 1600/1500 [755/708]                                | 1600/1500 [755/708]                                                                                  |
| AHRI Net Cooling Capacity Btu [kW]           | 46,000 [13.48]                                     | 46,000 [13.48]                                     | 46,000 [13.48]                                     | 46,000 [13.48]                                                                                       |
| Net Sensible Capacity Btu [kW]               | 34,000 [9.96]                                      | 34,000 [9.96]                                      | 34,000 [9.96]                                      | 34,000 [9.96]                                                                                        |
| Net Latent Capacity Btu [kW]                 | 12,000 [3.52]                                      | 12,000 [3.52]                                      | 12,000 [3.52]                                      | 12,000 [3.52]                                                                                        |
| Net System Power kW                          | 3.93                                               | 3.93                                               | 3.93                                               | 3.93                                                                                                 |
| <b>Compressor</b>                            |                                                    |                                                    |                                                    |                                                                                                      |
| No./Type                                     | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                                                                             |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> | 78                                                 | 78                                                 | 78                                                 | 78                                                                                                   |
| <b>Outdoor Coil—Fin Type</b>                 | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                                                                             |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                                                                         |
| MicroChannel Depth in. [mm]                  | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                                                                             |
| Face Area sq. ft. [sq. m]                    | 16.4 [1.52]                                        | 16.4 [1.52]                                        | 16.4 [1.52]                                        | 16.4 [1.52]                                                                                          |
| Rows / FPI [FPcm]                            | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                                                                           |
| <b>Indoor Coil—Fin Type</b>                  | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                                                                             |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                                                                         |
| MicroChannel Depth in. [mm]                  | 1.3 [32]                                           | 1.3 [32]                                           | 1.3 [32]                                           | 1.3 [32]                                                                                             |
| Face Area sq. ft. [sq. m]                    | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                                                                           |
| Rows / FPI [FPcm]                            | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                                                                           |
| Refrigerant Control                          | TX Valves                                          | TX Valves                                          | TX Valves                                          | TX Valves                                                                                            |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                                                                       |
| <b>Outdoor Fan—Type</b>                      | Propeller                                          | Propeller                                          | Propeller                                          | Propeller                                                                                            |
| No. Used/Diameter in. [mm]                   | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                                                                         |
| Drive Type/No. Speeds                        | Direct/1                                           | Direct/1                                           | Direct/1                                           | Direct/1                                                                                             |
| CFM [L/s]                                    | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                                                                          |
| No. Motors/HP                                | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                                                                          |
| Motor RPM                                    | 1075                                               | 1075                                               | 1075                                               | 1075                                                                                                 |
| <b>Indoor Fan—Type</b>                       | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                                                                       |
| No. Used/Diameter in. [mm]                   | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                                                                    |
| Drive Type                                   | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                                                                    |
| No. Speeds                                   | Single                                             | Single                                             | Single                                             | Single                                                                                               |
| No. Motors                                   | 1                                                  | 1                                                  | 1                                                  | 1                                                                                                    |
| Motor HP                                     | 1/2                                                | 3/4                                                | 1/2                                                | 3/4                                                                                                  |
| Motor RPM                                    | 1725                                               | 1725                                               | 1725                                               | 1725                                                                                                 |
| Motor Frame Size                             | 48                                                 | 56                                                 | 48                                                 | 56                                                                                                   |
| <b>Filter—Type</b>                           | Disposable                                         | Disposable                                         | Disposable                                         | Disposable                                                                                           |
| Furnished                                    | Yes                                                | Yes                                                | Yes                                                | Yes                                                                                                  |
| (NO.) Size Recommended in. [mm x mm x mm]    | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635]                                                   |
| <b>Refrigerant Charge Oz. [g]</b>            | 97 [2750]                                          | 97 [2750]                                          | 97 [2750]                                          | 97 [2750]                                                                                            |
| <b>Weights</b>                               |                                                    |                                                    |                                                    |                                                                                                      |
| Net Weight lbs. [kg]                         | 509 [231]                                          | 510 [231]                                          | 509 [231]                                          | 510 [231]                                                                                            |
| Ship Weight lbs. [kg]                        | 516 [234]                                          | 517 [235]                                          | 516 [234]                                          | 517 [235]                                                                                            |

### 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions



## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLPN- Series                           | C060CL*555              | C060CM*555              | C060DL*555              | C060DM*555              |
|----------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                         |                         |                         |                         |
| Gross Cooling Capacity Btu [kW]              | 60,000 [17.58]          | 60,000 [17.58]          | 60,000 [17.58]          | 60,000 [17.58]          |
| EER/SEER <sup>2</sup>                        | 11.6/14                 | 11.6/14                 | 11.6/14                 | 11.6/14                 |
| Nominal CFM/AHRI Rated CFM [L/s]             | 2000/1800 [944/849]     | 2000/1800 [944/849]     | 2000/1800 [944/849]     | 2000/1800 [944/849]     |
| AHRI Net Cooling Capacity Btu [kW]           | 58,500 [17.14]          | 58,500 [17.14]          | 58,500 [17.14]          | 58,500 [17.14]          |
| Net Sensible Capacity Btu [kW]               | 41,700 [12.22]          | 41,700 [12.22]          | 41,700 [12.22]          | 41,700 [12.22]          |
| Net Latent Capacity Btu [kW]                 | 16,800 [4.92]           | 16,800 [4.92]           | 16,800 [4.92]           | 16,800 [4.92]           |
| Net System Power kW                          | 4.95                    | 4.95                    | 4.95                    | 4.95                    |
| <b>Compressor</b>                            |                         |                         |                         |                         |
| No./Type                                     | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> |                         |                         |                         |                         |
|                                              | 83                      | 83                      | 83                      | 83                      |
| <b>Outdoor Coil—Fin Type</b>                 |                         |                         |                         |                         |
| Tube Type                                    | Louvered                | Louvered                | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel            | MicroChannel            | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 0.7 [18]                | 0.7 [18]                | 0.7 [18]                | 0.7 [18]                |
| Rows / FPI [FPcm]                            | 16.4 [1.52]             | 16.4 [1.52]             | 16.4 [1.52]             | 16.4 [1.52]             |
|                                              | 1 / 23 [9]              | 1 / 23 [9]              | 1 / 23 [9]              | 1 / 23 [9]              |
| <b>Indoor Coil—Fin Type</b>                  |                         |                         |                         |                         |
| Tube Type                                    | Louvered                | Louvered                | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel            | MicroChannel            | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.3 [32]                | 1.3 [32]                | 1.3 [32]                | 1.3 [32]                |
| Rows / FPI [FPcm]                            | 4.8 [0.45]              | 4.8 [0.45]              | 4.8 [0.45]              | 4.8 [0.45]              |
|                                              | 1 / 20 [8]              | 1 / 20 [8]              | 1 / 20 [8]              | 1 / 20 [8]              |
| Refrigerant Control                          | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                      |                         |                         |                         |                         |
| Propeller                                    | Propeller               | Propeller               | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                   | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| Drive Type/No. Speeds                        | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| CFM [L/s]                                    | 3930 [1855]             | 3930 [1855]             | 3930 [1855]             | 3930 [1855]             |
| No. Motors/HP                                | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM                                    | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>                       |                         |                         |                         |                         |
| FC Centrifugal                               | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                   | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type                                   | Belt (Adjustable)       | Belt (Adjustable)       | Belt (Adjustable)       | Belt (Adjustable)       |
| No. Speeds                                   | Single                  | Single                  | Single                  | Single                  |
| No. Motors                                   | 1                       | 1                       | 1                       | 1                       |
| Motor HP                                     | 3/4                     | 1                       | 3/4                     | 1                       |
| Motor RPM                                    | 1725                    | 1725                    | 1725                    | 1725                    |
| Motor Frame Size                             | 56                      | 56                      | 56                      | 56                      |
| <b>Filter—Type</b>                           |                         |                         |                         |                         |
| Disposable                                   | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished                                    | Yes                     | Yes                     | Yes                     | Yes                     |
| (NO.) Size Recommended in. [mm x mm x mm]    | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|                                              | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            |                         |                         |                         |                         |
|                                              | 97 [2750]               | 97 [2750]               | 97 [2750]               | 97 [2750]               |
| <b>Weights</b>                               |                         |                         |                         |                         |
| Net Weight lbs. [kg]                         | 517 [235]               | 522 [237]               | 517 [235]               | 522 [237]               |
| Ship Weight lbs. [kg]                        | 524 [238]               | 529 [240]               | 524 [238]               | 529 [240]               |

## NOTES:

- 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 210/240 or 360.
- EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLQN- Series                           | C036CL000                                          | C036CM000                                          | C036DL000                                          | C036DM000                                          |
|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                                                    |                                                    |                                                    | <b>CONTINUED →</b>                                 |
| Gross Cooling Capacity Btu [kW]              | 36,200 [10.61]                                     | 36,200 [10.61]                                     | 36,200 [10.61]                                     | 36,200 [10.61]                                     |
| EER/SEER <sup>2</sup>                        | 12.5/15                                            | 12.5/15                                            | 12.5/15                                            | 12.5/15                                            |
| Nominal CFM/AHRI Rated CFM [L/s]             | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                | 1200/1250 [566/590]                                |
| AHRI Net Cooling Capacity Btu [kW]           | 35,400 [10.37]                                     | 35,400 [10.37]                                     | 35,400 [10.37]                                     | 35,400 [10.37]                                     |
| Net Sensible Capacity Btu [kW]               | 26,200 [7.68]                                      | 26,200 [7.68]                                      | 26,200 [7.68]                                      | 26,200 [7.68]                                      |
| Net Latent Capacity Btu [kW]                 | 9,200 [2.7]                                        | 9,200 [2.7]                                        | 9,200 [2.7]                                        | 9,200 [2.7]                                        |
| Net System Power kW                          | 2.72                                               | 2.72                                               | 2.72                                               | 2.72                                               |
| <b>Compressor</b>                            |                                                    |                                                    |                                                    |                                                    |
| No./Type                                     | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           | 1/Scroll                                           |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> | 78                                                 | 78                                                 | 78                                                 | 78                                                 |
| <b>Outdoor Coil—Fin Type</b>                 | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                           |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           | 0.7 [18]                                           |
| Face Area sq. ft. [sq. m]                    | 13.9 [1.29]                                        | 13.9 [1.29]                                        | 13.9 [1.29]                                        | 13.9 [1.29]                                        |
| Rows / FPI [FPcm]                            | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         | 1 / 23 [9]                                         |
| <b>Indoor Coil—Fin Type</b>                  | Louvered                                           | Louvered                                           | Louvered                                           | Louvered                                           |
| Tube Type                                    | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       | MicroChannel                                       |
| MicroChannel Depth in. [mm]                  | 1 [25]                                             | 1 [25]                                             | 1 [25]                                             | 1 [25]                                             |
| Face Area sq. ft. [sq. m]                    | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         | 4.8 [0.45]                                         |
| Rows / FPI [FPcm]                            | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         | 1 / 20 [8]                                         |
| Refrigerant Control                          | TX Valves                                          | TX Valves                                          | TX Valves                                          | TX Valves                                          |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     | 1/0.75 [19.05]                                     |
| <b>Outdoor Fan—Type</b>                      | Propeller                                          | Propeller                                          | Propeller                                          | Propeller                                          |
| No. Used/Diameter in. [mm]                   | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       | 1/24 [609.6]                                       |
| Drive Type/No. Speeds                        | Direct/1                                           | Direct/1                                           | Direct/1                                           | Direct/1                                           |
| CFM [L/s]                                    | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        | 3680 [1737]                                        |
| No. Motors/HP                                | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        | 1 at 1/3 HP                                        |
| Motor RPM                                    | 1075                                               | 1075                                               | 1075                                               | 1075                                               |
| <b>Indoor Fan—Type</b>                       | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     | FC Centrifugal                                     |
| No. Used/Diameter in. [mm]                   | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  | 1/10x10 [254x254]                                  |
| Drive Type                                   | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  | Belt (Adjustable)                                  |
| No. Speeds                                   | Single                                             | Single                                             | Single                                             | Single                                             |
| No. Motors                                   | 1                                                  | 1                                                  | 1                                                  | 1                                                  |
| Motor HP                                     | 1/2                                                | 1/2                                                | 1/2                                                | 1/2                                                |
| Motor RPM                                    | 1725                                               | 1725                                               | 1725                                               | 1725                                               |
| Motor Frame Size                             | 48                                                 | 56                                                 | 48                                                 | 56                                                 |
| <b>Filter—Type</b>                           | Disposable                                         | Disposable                                         | Disposable                                         | Disposable                                         |
| Furnished                                    | Yes                                                | Yes                                                | Yes                                                | Yes                                                |
| (NO.) Size Recommended in. [mm x mm x mm]    | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635]<br>(1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            | 54 [1531]                                          | 54 [1531]                                          | 54 [1531]                                          | 54 [1531]                                          |
| <b>Weights</b>                               |                                                    |                                                    |                                                    |                                                    |
| Net Weight lbs. [kg]                         | 485 [220]                                          | 485 [220]                                          | 485 [220]                                          | 485 [220]                                          |
| Ship Weight lbs. [kg]                        | 492 [223]                                          | 492 [223]                                          | 492 [223]                                          | 492 [223]                                          |

### 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions



## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLQN- Series                           | C048CL000               | C048CM000               | C048DL000               | C048DM000               |
|----------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>       |                         |                         |                         | <b>CONTINUED →</b>      |
| Gross Cooling Capacity Btu [kW]              | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          |
| EER/SEER <sup>2</sup>                        | 12.5/15                 | 12.5/15                 | 12.5/15                 | 12.5/15                 |
| Nominal CFM/AHRI Rated CFM [L/s]             | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     |
| AHRI Net Cooling Capacity Btu [kW]           | 46,500 [13.62]          | 46,500 [13.62]          | 46,500 [13.62]          | 46,500 [13.62]          |
| Net Sensible Capacity Btu [kW]               | 35,700 [10.46]          | 35,700 [10.46]          | 35,700 [10.46]          | 35,700 [10.46]          |
| Net Latent Capacity Btu [kW]                 | 10,800 [3.16]           | 10,800 [3.16]           | 10,800 [3.16]           | 10,800 [3.16]           |
| Net System Power kW                          | 3.69                    | 3.69                    | 3.69                    | 3.69                    |
| <b>Compressor</b>                            |                         |                         |                         |                         |
| No./Type                                     | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b> |                         |                         |                         |                         |
|                                              | 78                      | 78                      | 78                      | 78                      |
| <b>Outdoor Coil—Fin Type</b>                 |                         |                         |                         |                         |
| Tube Type                                    | Louvered                | Louvered                | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel            | MicroChannel            | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 0.7 [18]                | 0.7 [18]                | 0.7 [18]                | 0.7 [18]                |
| Rows / FPI [FPcm]                            | 16.4 [1.52]             | 16.4 [1.52]             | 16.4 [1.52]             | 16.4 [1.52]             |
|                                              | 1 / 23 [9]              | 1 / 23 [9]              | 1 / 23 [9]              | 1 / 23 [9]              |
| <b>Indoor Coil—Fin Type</b>                  |                         |                         |                         |                         |
| Tube Type                                    | Louvered                | Louvered                | Louvered                | Louvered                |
| MicroChannel Depth in. [mm]                  | MicroChannel            | MicroChannel            | MicroChannel            | MicroChannel            |
| Face Area sq. ft. [sq. m]                    | 1.3 [32]                | 1.3 [32]                | 1.3 [32]                | 1.3 [32]                |
| Rows / FPI [FPcm]                            | 4.8 [0.45]              | 4.8 [0.45]              | 4.8 [0.45]              | 4.8 [0.45]              |
|                                              | 1 / 20 [8]              | 1 / 20 [8]              | 1 / 20 [8]              | 1 / 20 [8]              |
| Refrigerant Control                          | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]           | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                      |                         |                         |                         |                         |
| No. Used/Diameter in. [mm]                   | Propeller               | Propeller               | Propeller               | Propeller               |
| Drive Type/No. Speeds                        | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| CFM [L/s]                                    | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| No. Motors/HP                                | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| Motor RPM                                    | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
|                                              | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>                       |                         |                         |                         |                         |
| No. Used/Diameter in. [mm]                   | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| Drive Type                                   | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| No. Speeds                                   | Belt (Adjustable)       | Belt (Adjustable)       | Belt (Adjustable)       | Belt (Adjustable)       |
| No. Motors                                   | Single                  | Single                  | Single                  | Single                  |
| Motor HP                                     | 1                       | 1                       | 1                       | 1                       |
| Motor RPM                                    | 1/2                     | 3/4                     | 1/2                     | 3/4                     |
| Motor Frame Size                             | 1725                    | 1725                    | 1725                    | 1725                    |
|                                              | 48                      | 56                      | 48                      | 56                      |
| <b>Filter—Type</b>                           |                         |                         |                         |                         |
| Furnished                                    | Disposable              | Disposable              | Disposable              | Disposable              |
| (NO.) Size Recommended in. [mm x mm x mm]    | Yes                     | Yes                     | Yes                     | Yes                     |
|                                              | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|                                              | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>            |                         |                         |                         |                         |
|                                              | 68 [1928]               | 68 [1928]               | 68 [1928]               | 68 [1928]               |
| <b>Weights</b>                               |                         |                         |                         |                         |
| Net Weight lbs. [kg]                         | 509 [231]               | 510 [231]               | 509 [231]               | 510 [231]               |
| Ship Weight lbs. [kg]                        | 516 [234]               | 517 [235]               | 516 [234]               | 517 [235]               |

## NOTES:

- 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 210/240 or 360.
- EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions

## NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

| Model RLQN- Series                                   | C060CV000                   | C060DV000                   |
|------------------------------------------------------|-----------------------------|-----------------------------|
| <b>Cooling Performance<sup>1</sup></b>               |                             |                             |
| Gross Cooling Capacity Btu [kW]                      | 59,000 [17.29]              | 59,000 [17.29]              |
| EER/SEER <sup>2</sup>                                | 15                          | 15                          |
| EER (1st stage / 2nd stage)                          | 19.9/11.6                   | 19.9/11.6                   |
| AHRI Rated CFM (1st / 2nd stage) [L/s]               | 1375 / 1800 [649 / 849]     | 1375 / 1800 [649 / 849]     |
| AHRI Net Cooling Capacity (1st / 2nd stage) Btu [kW] | 49,000 / 57,000 [14.3/16.7] | 49,000 / 57,000 [14.3/16.7] |
| Net Sensible Capacity (1st / 2nd stage) Btu [kW]     | 34,800 / 40,800 [10.2/12.0] | 34,800 / 40,800 [10.2/12.0] |
| Net Latent Capacity (1st / 2nd stage) Btu [kW]       | 14,200 / 16,200 [4.2 / 4.8] | 14,200 / 16,200 [4.2 / 4.8] |
| Net System Power (1st / 2nd stage) [kW]              | 2.1 / 4.8                   | 2.1 / 4.8                   |
| <b>Compressor</b>                                    |                             |                             |
| No./Type                                             | 1/Scroll                    | 1/Scroll                    |
| <b>Outdoor Sound Rating (dB)<sup>3</sup></b>         |                             |                             |
|                                                      | 83                          | 83                          |
| <b>Outdoor Coil—Fin Type</b>                         |                             |                             |
| Tube Type                                            | Louvered                    | Louvered                    |
| MicroChannel Depth in. [mm]                          | MicroChannel                | MicroChannel                |
| Face Area sq. ft. [sq. m]                            | 0.7 [18]                    | 0.7 [18]                    |
| Rows / FPI [FPcm]                                    | 16.4 [1.52]                 | 16.4 [1.52]                 |
|                                                      | 1 / 23 [9]                  | 1 / 23 [9]                  |
| <b>Indoor Coil—Fin Type</b>                          |                             |                             |
| Tube Type                                            | Louvered                    | Louvered                    |
| MicroChannel Depth in. [mm]                          | MicroChannel                | MicroChannel                |
| Face Area sq. ft. [sq. m]                            | 1.3 [32]                    | 1.3 [32]                    |
| Rows / FPI [FPcm]                                    | 4.8 [0.45]                  | 4.8 [0.45]                  |
|                                                      | 1 / 20 [8]                  | 1 / 20 [8]                  |
| Refrigerant Control                                  | TX Valves                   | TX Valves                   |
| Drain Connection No./Size in. [mm]                   | 1/0.75 [19.05]              | 1/0.75 [19.05]              |
| <b>Outdoor Fan—Type</b>                              |                             |                             |
| No. Used/Diameter in. [mm]                           | Propeller                   | Propeller                   |
| Drive Type/No. Speeds                                | 1/24 [609.6]                | 1/24 [609.6]                |
| CFM [L/s]                                            | Direct/1                    | Direct/1                    |
| No. Motors/HP                                        | 3930 [1855]                 | 3930 [1855]                 |
| Motor RPM                                            | 1 at 1/3 HP                 | 1 at 1/3 HP                 |
|                                                      | 1075                        | 1075                        |
| <b>Indoor Fan—Type</b>                               |                             |                             |
| No. Used/Diameter in. [mm]                           | FC Centrifugal              | FC Centrifugal              |
| Drive Type                                           | 1/11x10 [279x254]           | 1/11x10 [279x254]           |
| No. Speeds                                           | Direct                      | Direct                      |
| No. Motors                                           | Multiple                    | Multiple                    |
| Motor HP                                             | 1                           | 1                           |
| Motor RPM                                            | 1                           | 1                           |
| Motor Frame Size                                     | 1050                        | 1050                        |
|                                                      | 48                          | 48                          |
| <b>Filter—Type</b>                                   |                             |                             |
| Furnished                                            | Disposable                  | Disposable                  |
| (NO.) Size Recommended in. [mm x mm x mm]            | Yes                         | Yes                         |
|                                                      | (1)1x16x25 [25x406x635]     | (1)1x16x25 [25x406x635]     |
|                                                      | (1)1x16x25 [25x406x635]     | (1)1x16x25 [25x406x635]     |
| <b>Refrigerant Charge Oz. [g]</b>                    |                             |                             |
|                                                      | 63 [1786]                   | 63 [1786]                   |
| <b>Weights</b>                                       |                             |                             |
| Net Weight lbs. [kg]                                 | 513 [233]                   | 569 [258]                   |
| Ship Weight lbs. [kg]                                | 520 [236]                   | 576 [261]                   |

## 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

[ ] Designates Metric Conversions



## GROSS SYSTEMS PERFORMANCE DATA—RLPN-C036

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |               |                                            |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|-------------------------------------------|---------------|--------------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| wbE                                       |               |                                            | 71°F [21.7°C]                    |                                  |                                  | 67°F [19.4°C]                    |                                  |                                  | 63°F [17.2°C]                    |                                  |                                  |
| CFM [L/s]                                 |               |                                            | 1375 [649]                       | 1250 [590]                       | 1062 [501]                       | 1375 [649]                       | 1250 [590]                       | 1062 [501]                       | 1375 [649]                       | 1250 [590]                       | 1062 [501]                       |
| DR ①                                      |               |                                            | 0.2                              | 0.18                             | 0.15                             | 0.2                              | 0.18                             | 0.15                             | 0.2                              | 0.18                             | 0.15                             |
| OUTDOOR DRY BULB TEMPERATURE<br>°F [°C]   | 75<br>[23.9]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 44.7 [13.1]<br>23.8 [7.0]<br>1.9 | 43.9 [12.9]<br>22.8 [6.7]<br>1.9 | 42.7 [12.5]<br>21.2 [6.2]<br>1.9 | 41.5 [12.2]<br>29.7 [8.7]<br>1.9 | 40.7 [11.9]<br>28.4 [8.3]<br>1.9 | 39.6 [11.6]<br>26.4 [7.7]<br>1.9 | 38.5 [11.3]<br>33.2 [9.7]<br>2.0 | 37.8 [11.1]<br>31.7 [9.3]<br>2.0 | 36.8 [10.8]<br>29.5 [8.6]<br>1.9 |
|                                           | 80<br>[26.7]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 43.6 [12.8]<br>23.7 [6.9]<br>2.0 | 42.9 [12.6]<br>22.6 [6.6]<br>2.0 | 41.7 [12.2]<br>21.0 [6.2]<br>2.0 | 40.4 [11.8]<br>29.5 [8.6]<br>2.1 | 39.7 [11.6]<br>28.2 [8.3]<br>2.0 | 38.6 [11.3]<br>26.2 [7.7]<br>2.0 | 37.4 [11.0]<br>33.0 [9.7]<br>2.1 | 36.7 [10.8]<br>31.6 [9.3]<br>2.1 | 35.7 [10.5]<br>29.4 [8.6]<br>2.0 |
|                                           | 85<br>[29.4]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 42.5 [12.5]<br>23.4 [6.8]<br>2.2 | 41.7 [12.2]<br>22.3 [6.5]<br>2.2 | 40.6 [11.9]<br>20.8 [6.1]<br>2.1 | 39.3 [11.5]<br>29.2 [8.6]<br>2.2 | 38.6 [11.3]<br>27.9 [8.2]<br>2.2 | 37.5 [11.0]<br>26.0 [7.6]<br>2.1 | 36.3 [10.6]<br>32.8 [9.6]<br>2.2 | 35.6 [10.4]<br>31.3 [9.2]<br>2.2 | 34.6 [10.2]<br>29.1 [8.5]<br>2.2 |
|                                           | 90<br>[32.2]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 41.4 [12.1]<br>22.9 [6.7]<br>2.3 | 40.6 [11.9]<br>21.9 [6.4]<br>2.3 | 39.5 [11.6]<br>20.4 [6.0]<br>2.3 | 38.1 [11.2]<br>28.8 [8.4]<br>2.3 | 37.4 [11.0]<br>27.5 [8.1]<br>2.3 | 36.4 [10.7]<br>25.6 [7.5]<br>2.3 | 35.1 [10.3]<br>32.3 [9.5]<br>2.4 | 34.5 [10.1]<br>30.9 [9.1]<br>2.3 | 33.5 [9.8]<br>28.7 [8.4]<br>2.3  |
|                                           | 95<br>[35]    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 40.2 [11.8]<br>22.4 [6.6]<br>2.5 | 39.5 [11.6]<br>21.4 [6.3]<br>2.4 | 38.4 [11.2]<br>19.9 [5.8]<br>2.4 | 36.9 [10.8]<br>28.2 [8.3]<br>2.5 | 36.3 [10.6]<br>27.0 [7.9]<br>2.5 | 35.3 [10.3]<br>25.1 [7.3]<br>2.4 | 33.9 [9.9]<br>31.8 [9.3]<br>2.5  | 33.3 [9.8]<br>30.3 [8.9]<br>2.5  | 32.4 [9.5]<br>28.2 [8.3]<br>2.5  |
|                                           | 100<br>[37.8] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 39.0 [11.4]<br>21.7 [6.4]<br>2.6 | 38.3 [11.2]<br>20.7 [6.1]<br>2.6 | 37.2 [10.9]<br>19.3 [5.6]<br>2.6 | 35.7 [10.5]<br>27.5 [8.1]<br>2.6 | 35.1 [10.3]<br>26.3 [7.7]<br>2.6 | 34.1 [10.0]<br>24.5 [7.2]<br>2.6 | 32.7 [9.6]<br>31.1 [9.1]<br>2.7  | 32.2 [9.4]<br>29.7 [8.7]<br>2.6  | 31.3 [9.2]<br>27.6 [8.1]<br>2.6  |
|                                           | 105<br>[40.6] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 37.7 [11.1]<br>20.9 [6.1]<br>2.8 | 37.1 [10.9]<br>19.9 [5.8]<br>2.7 | 36.1 [10.6]<br>18.5 [5.4]<br>2.7 | 34.5 [10.1]<br>26.7 [7.8]<br>2.8 | 33.9 [9.9]<br>25.5 [7.5]<br>2.8  | 33.0 [9.7]<br>23.7 [7.0]<br>2.7  | 31.5 [9.2]<br>30.2 [8.9]<br>2.8  | 30.9 [9.1]<br>28.9 [8.5]<br>2.8  | 30.1 [8.8]<br>26.9 [7.9]<br>2.8  |
|                                           | 110<br>[43.3] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 36.5 [10.7]<br>19.9 [5.8]<br>2.9 | 35.8 [10.5]<br>19.0 [5.6]<br>2.9 | 34.9 [10.2]<br>17.7 [5.2]<br>2.9 | 33.2 [9.7]<br>25.7 [7.5]<br>3.0  | 32.7 [9.6]<br>24.6 [7.2]<br>2.9  | 31.8 [9.3]<br>22.9 [6.7]<br>2.9  | 30.3 [8.9]<br>29.3 [8.6]<br>3.0  | 29.7 [8.7]<br>28.0 [8.2]<br>3.0  | 28.9 [8.5]<br>26.0 [7.6]<br>2.9  |
|                                           | 115<br>[46.1] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 35.2 [10.3]<br>18.8 [5.5]<br>3.1 | 34.6 [10.1]<br>18.0 [5.3]<br>3.1 | 33.6 [9.9]<br>16.7 [4.9]<br>3.1  | 32.0 [9.4]<br>24.7 [7.2]<br>3.1  | 31.4 [9.2]<br>23.6 [6.9]<br>3.1  | 30.5 [8.9]<br>21.9 [6.4]<br>3.1  | 29.0 [8.5]<br>28.2 [8.3]<br>3.2  | 28.5 [8.3]<br>26.9 [7.9]<br>3.1  | 27.7 [8.1]<br>25.0 [7.3]<br>3.1  |
|                                           | 120<br>[48.9] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 33.9 [9.9]<br>17.6 [5.1]<br>3.3  | 33.3 [9.8]<br>16.8 [4.9]<br>3.3  | 32.4 [9.5]<br>15.6 [4.6]<br>3.2  | 30.7 [9.0]<br>23.4 [6.9]<br>3.3  | 30.1 [8.8]<br>22.4 [6.6]<br>3.3  | 29.3 [8.6]<br>20.8 [6.1]<br>3.3  | 27.7 [8.1]<br>27.0 [7.9]<br>3.4  | 27.2 [8.0]<br>25.8 [7.5]<br>3.3  | 26.4 [7.7]<br>24.0 [7.0]<br>3.3  |
|                                           | 125<br>[51.7] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 32.6 [9.5]<br>16.2 [4.8]<br>3.5  | 32.0 [9.4]<br>15.5 [4.5]<br>3.5  | 31.1 [9.1]<br>14.4 [4.2]<br>3.4  | 29.3 [8.6]<br>22.1 [6.5]<br>3.5  | 28.8 [8.4]<br>21.1 [6.2]<br>3.5  | 28.0 [8.2]<br>19.6 [5.7]<br>3.4  | 26.3 [7.7]<br>25.6 [7.5]<br>3.6  | 25.9 [7.6]<br>24.5 [7.2]<br>3.5  | 25.2 [7.4]<br>22.7 [6.7]<br>3.5  |

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

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

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

[ ] Designates Metric Conversions



# GROSS SYSTEMS PERFORMANCE DATA—RLPN-C048

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |                 |                 |               |             |             |               |             |             |               |             |             |
|-------------------------------------------|-----------------|-----------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|
| wbE                                       |                 |                 | 71°F [21.7°C] |             |             | 67°F [19.4°C] |             |             | 63°F [17.2°C] |             |             |
| CFM [L/s]                                 |                 |                 | 1650 [779]    | 1500 [708]  | 1275 [602]  | 1650 [779]    | 1500 [708]  | 1275 [602]  | 1650 [779]    | 1500 [708]  | 1275 [602]  |
| DR ①                                      |                 |                 | 0.1           | 0.08        | 0.05        | 0.1           | 0.08        | 0.05        | 0.1           | 0.08        | 0.05        |
| OUTDOOR DRY BULB TEMPERATURE °F [°C]      | 75 [23.9]       | Total BTUH [kW] | 60.3 [17.7]   | 59.3 [17.4] | 57.6 [16.9] | 56.1 [16.4]   | 55.1 [16.1] | 53.6 [15.7] | 51.1 [15.0]   | 50.2 [14.7] | 48.8 [14.3] |
|                                           |                 | Sens BTUH [kW]  | 31.2 [9.2]    | 29.8 [8.7]  | 27.7 [8.1]  | 39.8 [11.7]   | 38.1 [11.2] | 35.4 [10.4] | 43.9 [12.9]   | 41.9 [12.3] | 39.0 [11.4] |
|                                           |                 | Power           | 2.6           | 2.6         | 2.5         | 2.6           | 2.6         | 2.5         | 2.6           | 2.5         | 2.5         |
|                                           | 80 [26.7]       | Total BTUH [kW] | 58.5 [17.1]   | 57.4 [16.8] | 55.9 [16.4] | 54.2 [15.9]   | 53.2 [15.6] | 51.8 [15.2] | 49.2 [14.4]   | 48.4 [14.2] | 47.0 [13.8] |
|                                           |                 | Sens BTUH [kW]  | 31.0 [9.1]    | 29.6 [8.7]  | 27.5 [8.1]  | 39.6 [11.6]   | 37.8 [11.1] | 35.2 [10.3] | 43.6 [12.8]   | 41.7 [12.2] | 38.8 [11.4] |
|                                           |                 | Power           | 2.8           | 2.7         | 2.7         | 2.7           | 2.7         | 2.7         | 2.7           | 2.7         | 2.7         |
|                                           | 85 [29.4]       | Total BTUH [kW] | 56.7 [16.6]   | 55.7 [16.3] | 54.2 [15.9] | 52.4 [15.4]   | 51.5 [15.1] | 50.1 [14.7] | 47.5 [13.9]   | 46.6 [13.7] | 45.3 [13.3] |
|                                           |                 | Sens BTUH [kW]  | 30.6 [9.0]    | 29.2 [8.6]  | 27.1 [8.0]  | 39.2 [11.5]   | 37.4 [11.0] | 34.8 [10.2] | 43.2 [12.7]   | 41.3 [12.1] | 38.4 [11.3] |
|                                           |                 | Power           | 2.9           | 2.9         | 2.9         | 2.9           | 2.9         | 2.9         | 2.9           | 2.9         | 2.9         |
|                                           | 90 [32.2]       | Total BTUH [kW] | 55.0 [16.1]   | 54.0 [15.8] | 52.5 [15.4] | 50.7 [14.9]   | 49.8 [14.6] | 48.4 [14.2] | 45.7 [13.4]   | 44.9 [13.2] | 43.7 [12.8] |
| Sens BTUH [kW]                            |                 | 30.0 [8.8]      | 28.6 [8.4]    | 26.6 [7.8]  | 38.6 [11.3] | 36.9 [10.8]   | 34.3 [10.0] | 42.6 [12.5] | 40.7 [11.9]   | 37.9 [11.1] |             |
| Power                                     |                 | 3.1             | 3.1           | 3.1         | 3.1         | 3.1           | 3.1         | 3.1         | 3.1           | 3.0         |             |
| °F [°C]                                   | 95 [35]         | Total BTUH [kW] | 53.3 [15.6]   | 52.3 [15.3] | 50.9 [14.9] | 49.0 [14.4]   | 48.1 [14.1] | 46.8 [13.7] | 44.1 [12.9]   | 43.3 [12.7] | 42.1 [12.3] |
|                                           |                 | Sens BTUH [kW]  | 29.2 [8.6]    | 27.9 [8.2]  | 26.0 [7.6]  | 37.8 [11.1]   | 36.1 [10.6] | 33.6 [9.9]  | 41.9 [12.3]   | 40.0 [11.7] | 37.2 [10.9] |
|                                           |                 | Power           | 3.3           | 3.3         | 3.3         | 3.3           | 3.3         | 3.3         | 3.3           | 3.3         | 3.2         |
|                                           | 100 [37.8]      | Total BTUH [kW] | 51.7 [15.2]   | 50.8 [14.9] | 49.4 [14.5] | 47.4 [13.9]   | 46.6 [13.7] | 45.3 [13.3] | 42.5 [12.4]   | 41.7 [12.2] | 40.6 [11.9] |
|                                           |                 | Sens BTUH [kW]  | 28.3 [8.3]    | 27.0 [7.9]  | 25.2 [7.4]  | 36.9 [10.8]   | 35.3 [10.3] | 32.8 [9.6]  | 41.0 [12.0]   | 39.2 [11.5] | 36.4 [10.7] |
|                                           |                 | Power           | 3.6           | 3.5         | 3.5         | 3.5           | 3.5         | 3.5         | 3.5           | 3.5         | 3.5         |
|                                           | 105 [40.6]      | Total BTUH [kW] | 50.2 [14.7]   | 49.3 [14.4] | 47.9 [14.0] | 45.9 [13.5]   | 45.1 [13.2] | 43.9 [12.9] | 40.9 [12.0]   | 40.2 [11.8] | 39.1 [11.5] |
|                                           |                 | Sens BTUH [kW]  | 27.2 [8.0]    | 26.0 [7.6]  | 24.2 [7.1]  | 35.8 [10.5]   | 34.3 [10.0] | 31.9 [9.3]  | 39.9 [11.7]   | 38.1 [11.2] | 35.5 [10.4] |
|                                           |                 | Power           | 3.8           | 3.8         | 3.7         | 3.8           | 3.7         | 3.7         | 3.8           | 3.7         | 3.7         |
|                                           | 110 [43.3]      | Total BTUH [kW] | 48.7 [14.3]   | 47.8 [14.0] | 46.5 [13.6] | 44.4 [13.0]   | 43.6 [12.8] | 42.5 [12.4] | 39.5 [11.6]   | 38.8 [11.4] | 37.7 [11.1] |
| Sens BTUH [kW]                            |                 | 26.0 [7.6]      | 24.8 [7.3]    | 23.1 [6.8]  | 34.6 [10.1] | 33.1 [9.7]    | 30.8 [9.0]  | 38.7 [11.3] | 36.9 [10.8]   | 34.4 [10.1] |             |
| Power                                     |                 | 4.0             | 4.0           | 3.9         | 4.0         | 4.0           | 3.9         | 4.0         | 4.0           | 3.9         |             |
| 115 [46.1]                                | Total BTUH [kW] | 47.3 [13.9]     | 46.5 [13.6]   | 45.2 [13.2] | 43.0 [12.6] | 42.3 [12.4]   | 41.1 [12.0] | 38.1 [11.2] | 37.4 [11.0]   | 36.4 [10.7] |             |
|                                           | Sens BTUH [kW]  | 24.6 [7.2]      | 23.5 [6.9]    | 21.8 [6.4]  | 33.2 [9.7]  | 31.7 [9.3]    | 29.5 [8.6]  | 37.3 [10.9] | 35.6 [10.4]   | 33.1 [9.7]  |             |
|                                           | Power           | 4.3             | 4.2           | 4.2         | 4.3         | 4.2           | 4.2         | 4.3         | 4.2           | 4.2         |             |
| 120 [48.9]                                | Total BTUH [kW] | 46.0 [13.5]     | 45.2 [13.2]   | 43.9 [12.9] | 41.7 [12.2] | 41.0 [12.0]   | 39.8 [11.7] | 36.7 [10.8] | 36.1 [10.6]   | 35.1 [10.3] |             |
|                                           | Sens BTUH [kW]  | 23.0 [6.7]      | 22.0 [6.4]    | 20.5 [6.0]  | 31.6 [9.3]  | 30.2 [8.9]    | 28.1 [8.2]  | 35.7 [10.5] | 34.1 [10.0]   | 31.7 [9.3]  |             |
|                                           | Power           | 4.5             | 4.5           | 4.4         | 4.5         | 4.5           | 4.4         | 4.5         | 4.5           | 4.4         |             |
| 125 [51.7]                                | Total BTUH [kW] | 44.7 [13.1]     | 43.9 [12.9]   | 42.7 [12.5] | 40.4 [11.8] | 39.7 [11.6]   | 38.6 [11.3] | 35.5 [10.4] | 34.8 [10.2]   | 33.9 [9.9]  |             |
|                                           | Sens BTUH [kW]  | 21.3 [6.2]      | 20.3 [6.0]    | 18.9 [5.5]  | 29.9 [8.8]  | 28.6 [8.4]    | 26.6 [7.8]  | 34.0 [10.0] | 32.4 [9.5]    | 30.2 [8.8]  |             |
|                                           | Power           | 4.8             | 4.8           | 4.7         | 4.8         | 4.8           | 4.7         | 4.8         | 4.7           | 4.7         |             |

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

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

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

[ ] Designates Metric Conversions



## GROSS SYSTEMS PERFORMANCE DATA—RLPN-C060

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |            |                                            |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|-------------------------------------------|------------|--------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| wbE                                       |            |                                            | 71°F [21.7°C]                     |                                   |                                   | 67°F [19.4°C]                     |                                   |                                   | 63°F [17.2°C]                     |                                   |                                   |
| CFM [L/s]                                 |            |                                            | 1980 [934]                        | 1800 [850]                        | 1530 [722]                        | 1980 [934]                        | 1800 [850]                        | 1530 [722]                        | 1980 [934]                        | 1800 [850]                        | 1530 [722]                        |
| DR ①                                      |            |                                            | 0.13                              | 0.12                              | 0.9                               | 0.13                              | 0.12                              | 0.9                               | 0.13                              | 0.12                              | 0.9                               |
| OUTDOOR DRY BULB TEMPERATURE °F [°C]      | 75 [23.9]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 75.4 [22.1]<br>42.4 [12.4]<br>3.6 | 74.0 [21.7]<br>40.5 [11.9]<br>3.6 | 72.0 [21.1]<br>37.7 [11.0]<br>3.5 | 69.7 [20.4]<br>49.5 [14.5]<br>3.6 | 68.4 [20.1]<br>47.3 [13.9]<br>3.5 | 66.6 [19.5]<br>44.0 [12.9]<br>3.5 | 67.8 [19.9]<br>56.8 [16.7]<br>3.5 | 66.6 [19.5]<br>54.3 [15.9]<br>3.5 | 64.7 [19.0]<br>50.5 [14.8]<br>3.4 |
|                                           | 80 [26.7]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 73.2 [21.5]<br>41.4 [12.1]<br>3.8 | 71.9 [21.1]<br>39.6 [11.6]<br>3.8 | 70.0 [20.5]<br>36.8 [10.8]<br>3.7 | 67.6 [19.8]<br>48.5 [14.2]<br>3.8 | 66.3 [19.4]<br>46.4 [13.6]<br>3.7 | 64.5 [18.9]<br>43.1 [12.6]<br>3.7 | 65.6 [19.2]<br>55.8 [16.4]<br>3.7 | 64.5 [18.9]<br>53.4 [15.6]<br>3.7 | 62.7 [18.4]<br>49.6 [14.5]<br>3.6 |
|                                           | 85 [29.4]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 71.1 [20.8]<br>40.4 [11.8]<br>4.1 | 69.8 [20.5]<br>38.6 [11.3]<br>4.0 | 67.9 [19.9]<br>35.9 [10.5]<br>4.0 | 65.4 [19.2]<br>47.5 [13.9]<br>4.0 | 64.3 [18.8]<br>45.4 [13.3]<br>4.0 | 62.5 [18.3]<br>42.2 [12.4]<br>3.9 | 63.5 [18.6]<br>54.8 [16.1]<br>4.0 | 62.4 [18.3]<br>52.4 [15.4]<br>3.9 | 60.7 [17.8]<br>48.7 [14.3]<br>3.9 |
|                                           | 90 [32.2]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 69.0 [20.2]<br>39.4 [11.5]<br>4.3 | 67.8 [19.9]<br>37.6 [11.0]<br>4.3 | 65.9 [19.3]<br>35.0 [10.3]<br>4.2 | 63.3 [18.6]<br>46.5 [13.6]<br>4.3 | 62.2 [18.2]<br>44.4 [13.0]<br>4.2 | 60.5 [17.7]<br>41.3 [12.1]<br>4.2 | 61.4 [18.0]<br>53.8 [15.8]<br>4.2 | 60.3 [17.7]<br>51.4 [15.1]<br>4.2 | 58.7 [17.2]<br>47.8 [14.0]<br>4.1 |
|                                           | 95 [35]    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 66.9 [19.6]<br>38.3 [11.2]<br>4.6 | 65.7 [19.3]<br>36.6 [10.7]<br>4.5 | 63.9 [18.7]<br>34.0 [10.0]<br>4.5 | 61.2 [17.9]<br>45.4 [13.3]<br>4.5 | 60.1 [17.6]<br>43.3 [12.7]<br>4.5 | 58.5 [17.1]<br>40.3 [11.8]<br>4.4 | 59.3 [17.4]<br>52.7 [15.4]<br>4.5 | 58.3 [17.1]<br>50.3 [14.7]<br>4.4 | 56.7 [16.6]<br>46.8 [13.7]<br>4.4 |
|                                           | 100 [37.8] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 64.8 [19.0]<br>37.1 [10.9]<br>4.8 | 63.7 [18.7]<br>35.5 [10.4]<br>4.8 | 61.9 [18.1]<br>33.0 [9.7]<br>4.7  | 59.1 [17.3]<br>44.2 [13.0]<br>4.8 | 58.1 [17.0]<br>42.2 [12.4]<br>4.7 | 56.5 [16.6]<br>39.3 [11.5]<br>4.7 | 57.2 [16.8]<br>51.5 [15.1]<br>4.7 | 56.2 [16.5]<br>49.2 [14.4]<br>4.7 | 54.7 [16.0]<br>45.8 [13.4]<br>4.6 |
|                                           | 105 [40.6] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 62.7 [18.4]<br>36.0 [10.5]<br>5.1 | 61.6 [18.1]<br>34.3 [10.1]<br>5.1 | 59.9 [17.6]<br>31.9 [9.4]<br>5.0  | 57.1 [16.7]<br>43.0 [12.6]<br>5.1 | 56.1 [16.4]<br>41.1 [12.0]<br>5.0 | 54.5 [16.0]<br>38.2 [11.2]<br>5.0 | 55.2 [16.2]<br>50.4 [14.8]<br>5.0 | 54.2 [15.9]<br>48.1 [14.1]<br>5.0 | 52.7 [15.4]<br>44.7 [13.1]<br>4.9 |
|                                           | 110 [43.3] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 60.7 [17.8]<br>34.7 [10.2]<br>5.4 | 59.6 [17.5]<br>33.2 [9.7]<br>5.4  | 58.0 [17.0]<br>30.9 [9.0]<br>5.3  | 55.0 [16.1]<br>41.8 [12.3]<br>5.4 | 54.0 [15.8]<br>40.0 [11.7]<br>5.3 | 52.5 [15.4]<br>37.2 [10.9]<br>5.2 | 53.1 [15.6]<br>49.1 [14.4]<br>5.3 | 52.1 [15.3]<br>46.9 [13.8]<br>5.3 | 50.7 [14.9]<br>43.7 [12.8]<br>5.2 |
|                                           | 115 [46.1] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 58.6 [17.2]<br>33.5 [9.8]<br>5.7  | 57.6 [16.9]<br>32.0 [9.4]<br>5.7  | 56.0 [16.4]<br>29.7 [8.7]<br>5.6  | 52.9 [15.5]<br>40.6 [11.9]<br>5.7 | 52.0 [15.2]<br>38.7 [11.4]<br>5.6 | 50.6 [14.8]<br>36.0 [10.6]<br>5.6 | 51.0 [15.0]<br>47.9 [14.0]<br>5.6 | 50.1 [14.7]<br>45.7 [13.4]<br>5.6 | 48.8 [14.3]<br>42.5 [12.5]<br>5.5 |
|                                           | 120 [48.9] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 56.6 [16.6]<br>32.2 [9.4]<br>6.1  | 55.6 [16.3]<br>30.7 [9.0]<br>6.0  | 54.1 [15.8]<br>28.6 [8.4]<br>5.9  | 50.9 [14.9]<br>39.2 [11.5]<br>6.0 | 50.0 [14.7]<br>37.5 [11.0]<br>5.9 | 48.6 [14.3]<br>34.9 [10.2]<br>5.9 | 49.0 [14.4]<br>46.6 [13.6]<br>5.9 | 48.1 [14.1]<br>44.5 [13.0]<br>5.9 | 46.8 [13.7]<br>41.4 [12.1]<br>5.8 |
|                                           | 125 [51.7] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 54.5 [16.0]<br>30.8 [9.0]<br>6.4  | 53.6 [15.7]<br>29.4 [8.6]<br>6.3  | 52.1 [15.3]<br>27.4 [8.0]<br>6.3  | 48.9 [14.3]<br>37.9 [11.1]<br>6.3 | 48.0 [14.1]<br>36.2 [10.6]<br>6.3 | 46.7 [13.7]<br>33.7 [9.9]<br>6.2  | 47.0 [13.8]<br>45.2 [13.2]<br>6.3 | 46.1 [13.5]<br>43.2 [12.7]<br>6.2 | 44.9 [13.1]<br>40.2 [11.8]<br>6.2 |

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

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

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

[ ] Designates Metric Conversions



# GROSS SYSTEMS PERFORMANCE DATA—RLQN-C036

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |                                            |                                            |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|-------------------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| wbE                                       |                                            |                                            | 71°F [21.7°C]                    |                                  |                                  | 67°F [19.4°C]                    |                                  |                                  | 63°F [17.2°C]                    |                                  |                                  |
| CFM [L/s]                                 |                                            |                                            | 1375 [649]                       | 1250 [590]                       | 1062 [501]                       | 1375 [649]                       | 1250 [590]                       | 1062 [501]                       | 1375 [649]                       | 1250 [590]                       | 1062 [501]                       |
| DR ①                                      |                                            |                                            | 0.19                             | 0.17                             | 0.14                             | 0.19                             | 0.17                             | 0.14                             | 0.19                             | 0.17                             | 0.14                             |
| OUTDOOR DRY BULB TEMPERATURE °F [°C]      | 75 [23.9]                                  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 45.2 [13.3]<br>24.2 [7.1]<br>1.9 | 44.4 [13.0]<br>23.1 [6.8]<br>1.9 | 43.2 [12.7]<br>21.5 [6.3]<br>1.8 | 41.8 [12.2]<br>29.9 [8.8]<br>1.9 | 41.0 [12.0]<br>28.6 [8.4]<br>1.9 | 39.9 [11.7]<br>26.6 [7.8]<br>1.9 | 39.0 [11.4]<br>33.7 [9.9]<br>1.9 | 38.3 [11.2]<br>32.2 [9.4]<br>1.9 | 37.3 [10.9]<br>29.9 [8.8]<br>1.9 |
|                                           | 80 [26.7]                                  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 44.0 [12.9]<br>24.0 [7.0]<br>2.0 | 43.2 [12.7]<br>22.9 [6.7]<br>2.0 | 42.1 [12.3]<br>21.3 [6.2]<br>2.0 | 40.6 [11.9]<br>29.7 [8.7]<br>2.0 | 39.8 [11.7]<br>28.4 [8.3]<br>2.0 | 38.8 [11.4]<br>26.4 [7.7]<br>2.0 | 37.8 [11.1]<br>33.5 [9.8]<br>2.1 | 37.1 [10.9]<br>32.0 [9.4]<br>2.1 | 36.1 [10.6]<br>29.8 [8.7]<br>2.0 |
|                                           | 85 [29.4]                                  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 42.8 [12.5]<br>23.7 [6.9]<br>2.2 | 42.1 [12.3]<br>22.6 [6.6]<br>2.1 | 40.9 [12.0]<br>21.0 [6.2]<br>2.1 | 39.4 [11.5]<br>29.4 [8.6]<br>2.2 | 38.7 [11.3]<br>28.1 [8.2]<br>2.2 | 37.6 [11.0]<br>26.1 [7.7]<br>2.1 | 36.6 [10.7]<br>33.2 [9.7]<br>2.2 | 35.9 [10.5]<br>31.7 [9.3]<br>2.2 | 34.9 [10.2]<br>29.5 [8.6]<br>2.2 |
|                                           | 90 [32.2]                                  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 41.6 [12.2]<br>23.2 [6.8]<br>2.3 | 40.9 [12.0]<br>22.2 [6.5]<br>2.3 | 39.8 [11.6]<br>20.6 [6.0]<br>2.2 | 38.1 [11.2]<br>28.9 [8.5]<br>2.3 | 37.5 [11.0]<br>27.6 [8.1]<br>2.3 | 36.4 [10.7]<br>25.7 [7.5]<br>2.3 | 35.4 [10.4]<br>32.7 [9.6]<br>2.4 | 34.7 [10.2]<br>31.2 [9.2]<br>2.3 | 33.8 [9.9]<br>29.1 [8.5]<br>2.3  |
|                                           | 95 [35]                                    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 40.4 [11.8]<br>22.6 [6.6]<br>2.5 | 39.7 [11.6]<br>21.6 [6.3]<br>2.4 | 38.6 [11.3]<br>20.1 [5.9]<br>2.4 | 36.9 [10.8]<br>28.4 [8.3]<br>2.5 | 36.3 [10.6]<br>27.1 [7.9]<br>2.5 | 35.3 [10.3]<br>25.2 [7.4]<br>2.4 | 34.2 [10.0]<br>32.1 [9.4]<br>2.5 | 33.6 [9.8]<br>30.7 [9.0]<br>2.5  | 32.6 [9.6]<br>28.5 [8.4]<br>2.5  |
|                                           | 100 [37.8]                                 | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 39.2 [11.5]<br>21.9 [6.4]<br>2.6 | 38.5 [11.3]<br>20.9 [6.1]<br>2.6 | 37.5 [11.0]<br>19.5 [5.7]<br>2.6 | 35.8 [10.5]<br>27.6 [8.1]<br>2.6 | 35.1 [10.3]<br>26.4 [7.7]<br>2.6 | 34.2 [10.0]<br>24.6 [7.2]<br>2.6 | 33.0 [9.7]<br>31.4 [9.2]<br>2.7  | 32.4 [9.5]<br>30.0 [8.8]<br>2.6  | 31.5 [9.2]<br>27.9 [8.2]<br>2.6  |
|                                           | 105 [40.6]                                 | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 38.0 [11.1]<br>21.1 [6.2]<br>2.8 | 37.3 [10.9]<br>20.1 [5.9]<br>2.8 | 36.3 [10.6]<br>18.7 [5.5]<br>2.7 | 34.6 [10.1]<br>26.8 [7.9]<br>2.8 | 33.9 [9.9]<br>25.6 [7.5]<br>2.8  | 33.0 [9.7]<br>23.8 [7.0]<br>2.8  | 31.8 [9.3]<br>30.6 [9.0]<br>2.8  | 31.2 [9.1]<br>29.2 [8.6]<br>2.8  | 30.4 [8.9]<br>27.2 [8.0]<br>2.8  |
|                                           | 110 [43.3]                                 | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 36.8 [10.8]<br>20.1 [5.9]<br>3.0 | 36.2 [10.6]<br>19.2 [5.6]<br>2.9 | 35.2 [10.3]<br>17.9 [5.2]<br>2.9 | 33.4 [9.8]<br>25.8 [7.6]<br>3.0  | 32.8 [9.6]<br>24.7 [7.2]<br>3.0  | 31.9 [9.3]<br>23.0 [6.7]<br>2.9  | 30.6 [9.0]<br>29.6 [8.7]<br>3.0  | 30.1 [8.8]<br>28.3 [8.3]<br>3.0  | 29.2 [8.6]<br>26.3 [7.7]<br>3.0  |
|                                           | 115 [46.1]                                 | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 35.7 [10.4]<br>19.0 [5.6]<br>3.2 | 35.0 [10.3]<br>18.2 [5.3]<br>3.1 | 34.1 [10.0]<br>16.9 [4.9]<br>3.1 | 32.2 [9.4]<br>24.7 [7.3]<br>3.2  | 31.6 [9.3]<br>23.6 [6.9]<br>3.2  | 30.8 [9.0]<br>22.0 [6.4]<br>3.1  | 29.4 [8.6]<br>28.5 [8.4]<br>3.2  | 28.9 [8.5]<br>27.2 [8.0]<br>3.2  | 28.1 [8.2]<br>25.3 [7.4]<br>3.1  |
|                                           | 120 [48.9]                                 | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 34.5 [10.1]<br>17.8 [5.2]<br>3.4 | 33.9 [9.9]<br>17.0 [5.0]<br>3.3  | 32.9 [9.7]<br>15.8 [4.6]<br>3.3  | 31.0 [9.1]<br>23.5 [6.9]<br>3.4  | 30.5 [8.9]<br>22.5 [6.6]<br>3.4  | 29.6 [8.7]<br>20.9 [6.1]<br>3.3  | 28.2 [8.3]<br>27.3 [8.0]<br>3.4  | 27.7 [8.1]<br>26.1 [7.6]<br>3.4  | 27.0 [7.9]<br>24.3 [7.1]<br>3.3  |
| 125 [51.7]                                | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 33.3 [9.8]<br>16.4 [4.8]<br>3.6            | 32.7 [9.6]<br>15.7 [4.6]<br>3.5  | 31.8 [9.3]<br>14.6 [4.3]<br>3.5  | 29.8 [8.7]<br>22.2 [6.5]<br>3.6  | 29.3 [8.6]<br>21.2 [6.2]<br>3.6  | 28.5 [8.4]<br>19.7 [5.8]<br>3.5  | 27.1 [7.9]<br>26.0 [7.6]<br>3.6  | 26.6 [7.8]<br>24.8 [7.3]<br>3.6  | 25.9 [7.6]<br>23.1 [6.8]<br>3.5  |                                  |

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

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

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

[ ] Designates Metric Conversions



## GROSS SYSTEMS PERFORMANCE DATA—RLQN-C048

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |               |                                            |                                  |                                  |                                  |                                   |                                   |                                   |                                   |                                   |                                   |
|-------------------------------------------|---------------|--------------------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| wbE                                       |               |                                            | 71°F [21.7°C]                    |                                  |                                  | 67°F [19.4°C]                     |                                   |                                   | 63°F [17.2°C]                     |                                   |                                   |
| CFM [L/s]                                 |               |                                            | 1760 [831]                       | 1600 [755]                       | 1360 [642]                       | 1760 [831]                        | 1600 [755]                        | 1360 [642]                        | 1760 [831]                        | 1600 [755]                        | 1360 [642]                        |
| DR ①                                      |               |                                            | 0.11                             | 0.09                             | 0.05                             | 0.11                              | 0.09                              | 0.05                              | 0.11                              | 0.09                              | 0.05                              |
| OUTDOOR DRY BULB TEMPERATURE<br>°F [°C]   | 75<br>[23.9]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 58.9 [17.3]<br>31.1 [9.1]<br>2.6 | 57.8 [16.9]<br>29.7 [8.7]<br>2.6 | 56.2 [16.5]<br>27.6 [8.1]<br>2.5 | 55.1 [16.1]<br>40.2 [11.8]<br>2.6 | 54.1 [15.9]<br>38.4 [11.3]<br>2.5 | 52.6 [15.4]<br>35.7 [10.5]<br>2.5 | 49.6 [14.5]<br>43.7 [12.8]<br>2.6 | 48.8 [14.3]<br>41.8 [12.2]<br>2.5 | 47.4 [13.9]<br>38.9 [11.4]<br>2.5 |
|                                           | 80<br>[26.7]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 57.3 [16.8]<br>31.1 [9.1]<br>2.7 | 56.3 [16.5]<br>29.7 [8.7]<br>2.7 | 54.7 [16.0]<br>27.6 [8.1]<br>2.7 | 53.5 [15.7]<br>40.2 [11.8]<br>2.7 | 52.6 [15.4]<br>38.4 [11.3]<br>2.7 | 51.1 [15.0]<br>35.7 [10.5]<br>2.7 | 48.1 [14.1]<br>43.7 [12.8]<br>2.7 | 47.2 [13.8]<br>41.8 [12.2]<br>2.7 | 45.9 [13.5]<br>38.9 [11.4]<br>2.7 |
|                                           | 85<br>[29.4]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 55.7 [16.3]<br>30.9 [9.0]<br>2.9 | 54.7 [16.0]<br>29.5 [8.6]<br>2.9 | 53.2 [15.6]<br>27.4 [8.0]<br>2.9 | 51.9 [15.2]<br>40.0 [11.7]<br>2.9 | 51.0 [15.0]<br>38.2 [11.2]<br>2.9 | 49.6 [14.5]<br>35.5 [10.4]<br>2.9 | 46.5 [13.6]<br>43.5 [12.7]<br>2.9 | 45.7 [13.4]<br>41.6 [12.2]<br>2.9 | 44.4 [13.0]<br>38.7 [11.3]<br>2.8 |
|                                           | 90<br>[32.2]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 54.1 [15.9]<br>30.4 [8.9]<br>3.1 | 53.2 [15.6]<br>29.1 [8.5]<br>3.1 | 51.7 [15.2]<br>27.0 [7.9]<br>3.0 | 50.4 [14.8]<br>39.5 [11.6]<br>3.1 | 49.5 [14.5]<br>37.7 [11.1]<br>3.1 | 48.1 [14.1]<br>35.1 [10.3]<br>3.0 | 44.9 [13.2]<br>43.1 [12.6]<br>3.1 | 44.1 [12.9]<br>41.1 [12.1]<br>3.1 | 42.9 [12.6]<br>38.3 [11.2]<br>3.0 |
|                                           | 95<br>[35]    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 52.5 [15.4]<br>29.7 [8.7]<br>3.3 | 51.6 [15.1]<br>28.4 [8.3]<br>3.3 | 50.2 [14.7]<br>26.4 [7.7]<br>3.2 | 48.8 [14.3]<br>38.8 [11.4]<br>3.3 | 47.9 [14.0]<br>37.1 [10.9]<br>3.3 | 46.6 [13.7]<br>34.5 [10.1]<br>3.2 | 43.3 [12.7]<br>42.4 [12.4]<br>3.3 | 42.5 [12.5]<br>40.5 [11.9]<br>3.3 | 41.4 [12.1]<br>37.7 [11.0]<br>3.2 |
|                                           | 100<br>[37.8] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 50.9 [14.9]<br>28.8 [8.4]<br>3.5 | 50.0 [14.7]<br>27.5 [8.1]<br>3.5 | 48.7 [14.3]<br>25.6 [7.5]<br>3.5 | 47.2 [13.8]<br>37.9 [11.1]<br>3.5 | 46.3 [13.6]<br>36.2 [10.6]<br>3.5 | 45.1 [13.2]<br>33.7 [9.9]<br>3.4  | 41.7 [12.2]<br>41.5 [12.2]<br>3.5 | 41.0 [12.0]<br>39.6 [11.6]<br>3.5 | 39.9 [11.7]<br>36.8 [10.8]<br>3.4 |
|                                           | 105<br>[40.6] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 49.3 [14.5]<br>27.7 [8.1]<br>3.8 | 48.5 [14.2]<br>26.5 [7.8]<br>3.7 | 47.1 [13.8]<br>24.6 [7.2]<br>3.7 | 45.6 [13.4]<br>36.8 [10.8]<br>3.7 | 44.8 [13.1]<br>35.1 [10.3]<br>3.7 | 43.5 [12.8]<br>32.7 [9.6]<br>3.7  | 40.1 [11.8]<br>40.1 [11.8]<br>3.7 | 39.4 [11.5]<br>38.5 [11.3]<br>3.7 | 38.3 [11.2]<br>35.8 [10.5]<br>3.7 |
|                                           | 110<br>[43.3] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 47.7 [14.0]<br>26.3 [7.7]<br>4.0 | 46.9 [13.7]<br>25.2 [7.4]<br>4.0 | 45.6 [13.4]<br>23.4 [6.9]<br>3.9 | 44.0 [12.9]<br>35.4 [10.4]<br>4.0 | 43.2 [12.7]<br>33.8 [9.9]<br>3.9  | 42.0 [12.3]<br>31.5 [9.2]<br>3.9  | 38.5 [11.3]<br>38.5 [11.3]<br>4.0 | 37.8 [11.1]<br>37.2 [10.9]<br>3.9 | 36.8 [10.8]<br>34.6 [10.1]<br>3.9 |
|                                           | 115<br>[46.1] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 46.1 [13.5]<br>24.7 [7.2]<br>4.2 | 45.3 [13.3]<br>23.6 [6.9]<br>4.2 | 44.1 [12.9]<br>22.0 [6.4]<br>4.1 | 42.3 [12.4]<br>33.8 [9.9]<br>4.2  | 41.6 [12.2]<br>32.3 [9.5]<br>4.2  | 40.4 [11.9]<br>30.1 [8.8]<br>4.1  | 36.9 [10.8]<br>36.9 [10.8]<br>4.2 | 36.2 [10.6]<br>35.7 [10.5]<br>4.2 | 35.2 [10.3]<br>33.2 [9.7]<br>4.1  |
|                                           | 120<br>[48.9] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 44.5 [13.0]<br>22.9 [6.7]<br>4.5 | 43.7 [12.8]<br>21.9 [6.4]<br>4.5 | 42.5 [12.5]<br>20.4 [6.0]<br>4.4 | 40.7 [11.9]<br>32.0 [9.4]<br>4.5  | 40.0 [11.7]<br>30.6 [9.0]<br>4.4  | 38.9 [11.4]<br>28.4 [8.3]<br>4.4  | 35.3 [10.3]<br>35.3 [10.3]<br>4.5 | 34.6 [10.1]<br>34.0 [10.0]<br>4.4 | 33.7 [9.9]<br>31.6 [9.3]<br>4.4   |
|                                           | 125<br>[51.7] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 42.9 [12.6]<br>20.9 [6.1]<br>4.8 | 42.1 [12.3]<br>19.9 [5.8]<br>4.7 | 40.9 [12.0]<br>18.5 [5.4]<br>4.7 | 39.1 [11.5]<br>30.0 [8.8]<br>4.8  | 38.4 [11.2]<br>28.6 [8.4]<br>4.7  | 37.3 [10.9]<br>26.6 [7.8]<br>4.7  | 33.6 [9.9]<br>33.5 [9.8]<br>4.7   | 33.0 [9.7]<br>32.0 [9.4]<br>4.7   | 32.1 [9.4]<br>29.8 [8.7]<br>4.6   |

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

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

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

[ ] Designates Metric Conversions



# GROSS SYSTEMS PERFORMANCE DATA—RLQN-C060

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①        |                 |                 |               |             |             |               |             |             |               |             |             |
|--------------------------------------------------|-----------------|-----------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|
| wbE                                              |                 |                 | 71°F [21.7°C] |             |             | 67°F [19.4°C] |             |             | 63°F [17.2°C] |             |             |
| CFM [L/s]                                        |                 |                 | 2310 [1090]   | 1850 [873]  | 1380 [651]  | 2310 [1090]   | 1850 [873]  | 1380 [651]  | 2310 [1090]   | 1850 [873]  | 1380 [651]  |
| DR ①                                             |                 |                 | 0.17          | 0.13        | 0.08        | 0.17          | 0.13        | 0.08        | 0.17          | 0.13        | 0.08        |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 75<br>[23.9]    | Total BTUH [kW] | 77.5 [22.7]   | 74.1 [21.7] | 70.7 [20.7] | 71.1 [20.8]   | 68.0 [19.9] | 64.9 [19.0] | 65.8 [19.3]   | 62.9 [18.4] | 60.0 [17.6] |
|                                                  |                 | Sens BTUH [kW]  | 40.4 [11.8]   | 36.2 [10.6] | 31.9 [9.3]  | 50.3 [14.7]   | 45.0 [13.2] | 39.7 [11.6] | 56.8 [16.6]   | 50.9 [14.9] | 44.8 [13.1] |
|                                                  |                 | Power           | 3.6           | 3.5         | 3.5         | 3.6           | 3.5         | 3.4         | 3.6           | 3.5         | 3.4         |
|                                                  | 80<br>[26.7]    | Total BTUH [kW] | 76.0 [22.3]   | 72.7 [21.3] | 69.4 [20.3] | 69.7 [20.4]   | 66.6 [19.5] | 63.6 [18.6] | 64.3 [18.8]   | 61.5 [18.0] | 58.7 [17.2] |
|                                                  |                 | Sens BTUH [kW]  | 40.7 [11.9]   | 36.4 [10.7] | 32.1 [9.4]  | 50.6 [14.8]   | 45.3 [13.3] | 39.9 [11.7] | 57.1 [16.7]   | 51.1 [15.0] | 45.1 [13.2] |
|                                                  |                 | Power           | 3.8           | 3.7         | 3.7         | 3.8           | 3.7         | 3.6         | 3.8           | 3.7         | 3.6         |
|                                                  | 85<br>[29.4]    | Total BTUH [kW] | 74.4 [21.8]   | 71.2 [20.9] | 67.9 [19.9] | 68.1 [19.9]   | 65.1 [19.1] | 62.1 [18.2] | 62.7 [18.4]   | 60.0 [17.6] | 57.2 [16.8] |
|                                                  |                 | Sens BTUH [kW]  | 40.6 [11.9]   | 36.4 [10.7] | 32.1 [9.4]  | 50.5 [14.8]   | 45.2 [13.3] | 39.9 [11.7] | 57.0 [16.7]   | 51.1 [15.0] | 45.0 [13.2] |
|                                                  |                 | Power           | 4.0           | 4.0         | 3.9         | 4.0           | 3.9         | 3.8         | 4.0           | 3.9         | 3.8         |
|                                                  | 90<br>[32.2]    | Total BTUH [kW] | 72.7 [21.3]   | 69.5 [20.4] | 66.3 [19.4] | 66.3 [19.4]   | 63.5 [18.6] | 60.5 [17.7] | 61.0 [17.9]   | 58.4 [17.1] | 55.7 [16.3] |
| Sens BTUH [kW]                                   |                 | 40.2 [11.8]     | 36.0 [10.6]   | 31.8 [9.3]  | 50.1 [14.7] | 44.9 [13.2]   | 39.6 [11.6] | 56.6 [16.6] | 50.7 [14.9]   | 44.7 [13.1] |             |
| Power                                            |                 | 4.3             | 4.2           | 4.1         | 4.3         | 4.2           | 4.1         | 4.2         | 4.1           | 4.0         |             |
| 95<br>[35]                                       | Total BTUH [kW] | 70.8 [20.8]     | 67.8 [19.9]   | 64.6 [18.9] | 64.5 [18.9] | 61.7 [18.1]   | 58.8 [17.2] | 59.1 [17.3] | 56.6 [16.6]   | 54.0 [15.8] |             |
|                                                  | Sens BTUH [kW]  | 39.5 [11.6]     | 35.3 [10.4]   | 31.2 [9.1]  | 49.3 [14.5] | 44.2 [13.0]   | 39.0 [11.4] | 55.8 [16.4] | 50.0 [14.7]   | 44.1 [12.9] |             |
|                                                  | Power           | 4.5             | 4.4           | 4.3         | 4.5         | 4.4           | 4.3         | 4.5         | 4.4           | 4.3         |             |
| 100<br>[37.8]                                    | Total BTUH [kW] | 68.8 [20.2]     | 65.9 [19.3]   | 62.8 [18.4] | 62.5 [18.3] | 59.8 [17.5]   | 57.0 [16.7] | 57.2 [16.7] | 54.7 [16.0]   | 52.2 [15.3] |             |
|                                                  | Sens BTUH [kW]  | 38.3 [11.2]     | 34.4 [10.1]   | 30.3 [8.9]  | 48.2 [14.1] | 43.2 [12.7]   | 38.1 [11.2] | 54.7 [16.0] | 49.0 [14.4]   | 43.2 [12.7] |             |
|                                                  | Power           | 4.8             | 4.7           | 4.6         | 4.8         | 4.7           | 4.6         | 4.7         | 4.6           | 4.5         |             |
| 105<br>[40.6]                                    | Total BTUH [kW] | 66.7 [19.6]     | 63.8 [18.7]   | 60.9 [17.8] | 60.4 [17.7] | 57.8 [16.9]   | 55.1 [16.1] | 55.0 [16.1] | 52.6 [15.4]   | 50.2 [14.7] |             |
|                                                  | Sens BTUH [kW]  | 36.9 [10.8]     | 33.0 [9.7]    | 29.1 [8.5]  | 46.8 [13.7] | 41.9 [12.3]   | 36.9 [10.8] | 53.3 [15.6] | 47.7 [14.0]   | 42.1 [12.3] |             |
|                                                  | Power           | 5.1             | 5.0           | 4.8         | 5.0         | 4.9           | 4.8         | 5.0         | 4.9           | 4.8         |             |
| 110<br>[43.3]                                    | Total BTUH [kW] | 64.5 [18.9]     | 61.7 [18.1]   | 58.8 [17.2] | 58.1 [17.0] | 55.6 [16.3]   | 53.0 [15.5] | 52.8 [15.5] | 50.5 [14.8]   | 48.2 [14.1] |             |
|                                                  | Sens BTUH [kW]  | 35.1 [10.3]     | 31.4 [9.2]    | 27.7 [8.1]  | 44.9 [13.2] | 40.3 [11.8]   | 35.5 [10.4] | 51.4 [15.1] | 46.1 [13.5]   | 40.6 [11.9] |             |
|                                                  | Power           | 5.3             | 5.2           | 5.1         | 5.3         | 5.2           | 5.1         | 5.3         | 5.2           | 5.1         |             |
| 115<br>[46.1]                                    | Total BTUH [kW] | 62.1 [18.2]     | 59.4 [17.4]   | 56.6 [16.6] | 55.7 [16.3] | 53.3 [15.6]   | 50.8 [14.9] | 50.4 [14.8] | 48.2 [14.1]   | 46.0 [13.5] |             |
|                                                  | Sens BTUH [kW]  | 32.9 [9.6]      | 29.5 [8.6]    | 26.0 [7.6]  | 42.8 [12.5] | 38.3 [11.2]   | 33.8 [9.9]  | 49.3 [14.4] | 44.2 [12.9]   | 38.9 [11.4] |             |
|                                                  | Power           | 5.6             | 5.5           | 5.4         | 5.6         | 5.5           | 5.4         | 5.6         | 5.5           | 5.3         |             |
| 120<br>[48.9]                                    | Total BTUH [kW] | 59.5 [17.4]     | 57.0 [16.7]   | 54.3 [15.9] | 53.2 [15.6] | 50.9 [14.9]   | 48.5 [14.2] | 47.8 [14.0] | 45.8 [13.4]   | 43.7 [12.8] |             |
|                                                  | Sens BTUH [kW]  | 30.4 [8.9]      | 27.2 [8.0]    | 24.0 [7.0]  | 40.3 [11.8] | 36.1 [10.6]   | 31.8 [9.3]  | 46.8 [13.7] | 41.9 [12.3]   | 36.9 [10.8] |             |
|                                                  | Power           | 6.0             | 5.8           | 5.7         | 5.9         | 5.8           | 5.7         | 5.9         | 5.8           | 5.6         |             |
| 125<br>[51.7]                                    | Total BTUH [kW] | 56.9 [16.7]     | 54.4 [15.9]   | 51.9 [15.2] | 50.5 [14.8] | 48.3 [14.2]   | 46.1 [13.5] | 45.2 [13.2] | 43.2 [12.7]   | 41.2 [12.1] |             |
|                                                  | Sens BTUH [kW]  | 27.5 [8.1]      | 24.7 [7.2]    | 21.7 [6.4]  | 37.4 [11.0] | 33.5 [9.8]    | 29.5 [8.7]  | 43.9 [12.9] | 39.3 [11.5]   | 34.7 [10.2] |             |
|                                                  | Power           | 6.3             | 6.1           | 6.0         | 6.3         | 6.1           | 6.0         | 6.2         | 6.1           | 6.0         |             |

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

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

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

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE—3 TON [10.55 kW] 3 PHASE BELT DRIVE

| Air<br>Flow<br>CFM [L/s] | External Static Pressure—Inches of Water [kPa] |     |           |     |           |     |                                  |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |  |  |  |  |  |  |
|--------------------------|------------------------------------------------|-----|-----------|-----|-----------|-----|----------------------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|--|--|--|--|--|--|
|                          | Capacity 3 Ton [10.55 kW]                      |     |           |     |           |     | Voltage 208/230/460/575, 3-Phase |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |           |     |  |  |  |  |  |  |
|                          | 0.1 [.02]                                      |     | 0.2 [.05] |     | 0.3 [.07] |     | 0.4 [.10]                        |     | 0.5 [.12] |     | 0.6 [.15] |     | 0.7 [.17] |     | 0.8 [.20] |     | 0.9 [.22] |     | 1.0 [.25] |     | 1.1 [.27] |     | 1.2 [.30] |     | 1.3 [.32] |     | 1.4 [.35] |     | 1.5 [.37] |     |  |  |  |  |  |  |
|                          | RPM                                            | W   | RPM       | W   | RPM       | W   | RPM                              | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   |  |  |  |  |  |  |
| 900 [425]                | —                                              | —   | —         | —   | 699       | 223 | 765                              | 261 | 827       | 292 | 886       | 318 | 941       | 338 | 993       | 352 | 1042      | 360 | 1087      | 362 | 1129      | 358 | 1168      | 348 | 1203      | 332 | 1235      | 310 | 1264      | 282 |  |  |  |  |  |  |
| 1000 [472]               | —                                              | —   | 662       | 228 | 717       | 258 | 781                              | 293 | 842       | 323 | 899       | 346 | 952       | 364 | 1002      | 376 | 1049      | 381 | 1093      | 381 | 1133      | 374 | 1170      | 362 | 1203      | 344 | 1233      | 320 | 1260      | 289 |  |  |  |  |  |  |
| 1100 [519]               | —                                              | —   | 667       | 275 | 737       | 295 | 798                              | 328 | 857       | 355 | 912       | 377 | 964       | 392 | 1012      | 401 | 1057      | 404 | 1099      | 402 | 1137      | 393 | 1172      | 378 | 1204      | 358 | 1232      | 331 | 1257      | 298 |  |  |  |  |  |  |
| 1200 [566]               | 643                                            | 278 | 693       | 298 | 756       | 334 | 817                              | 365 | 873       | 390 | 927       | 409 | 976       | 422 | 1023      | 428 | 1066      | 429 | 1106      | 424 | 1143      | 413 | 1176      | 396 | 1205      | 373 | 1232      | 344 | 1255      | 309 |  |  |  |  |  |  |
| 1300 [614]               | 661                                            | 316 | 716       | 341 | 777       | 376 | 835                              | 404 | 890       | 426 | 942       | 443 | 990       | 453 | 1035      | 458 | 1076      | 456 | 1114      | 449 | 1149      | 435 | 1180      | 416 | 1208      | 391 | 1232      | 359 | 1254      | 322 |  |  |  |  |  |  |
| 1400 [661]               | 669                                            | 352 | 739       | 387 | 799       | 419 | 855                              | 445 | 908       | 465 | 958       | 479 | 1004      | 487 | 1047      | 489 | 1087      | 485 | 1123      | 475 | 1156      | 460 | 1185      | 438 | 1211      | 410 | 1234      | 377 | 1253      | 337 |  |  |  |  |  |  |
| 1500 [708]               | 702                                            | 399 | 763       | 434 | 821       | 464 | 876                              | 487 | 927       | 505 | 975       | 517 | 1019      | 523 | 1060      | 522 | 1098      | 516 | 1132      | 504 | 1163      | 486 | 1191      | 462 | 1215      | 432 | 1236      | 396 | 1254      | 354 |  |  |  |  |  |  |

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

| Drive Package  | L                          |     |            |     |     |     | M                          |      |      |             |     |     |
|----------------|----------------------------|-----|------------|-----|-----|-----|----------------------------|------|------|-------------|-----|-----|
| Motor H.P. [W] | 1/2 [373]                  |     |            |     |     |     | 1/2 [373]                  |      |      |             |     |     |
| Blower Sheave  | 6.9" Pitch Diameter        |     |            |     |     |     | 6.4" Pitch Diameter        |      |      |             |     |     |
| Motor Sheave   | 2.4" - 3.4" Pitch Diameter |     |            |     |     |     | 3.4" - 4.4" Pitch Diameter |      |      |             |     |     |
| Turns Open     | 0                          | 1   | 2          | 3   | 4   | 5   | 0                          | 1    | 2    | 3           | 4   | 5   |
| RPM            | 910                        | 869 | <b>818</b> | 775 | 728 | 682 | 1176                       | 1145 | 1108 | <b>1060</b> | 996 | 968 |

## COMPONENT AIR RESISTANCE

| CFM [L/s]                        | Standard Indoor Airflow—CFM [L/s] |               |               |               |               |               |
|----------------------------------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
|                                  | 1000<br>[472]                     | 1200<br>[566] | 1400<br>[661] | 1600<br>[755] | 1800<br>[850] | 2000<br>[944] |
|                                  | Resistance—Inches Water [kPa]     |               |               |               |               |               |
| Wet Coil                         | 0.035                             | 0.040         | 0.060         | 0.070         | 0.085         | 0.100         |
| Downflow                         | 0.055                             | 0.060         | 0.066         | 0.072         | 0.080         | 0.086         |
| R.S.I. Economizer<br>R.A. Damper | 0.05                              | 0.06          | 0.07          | 0.08          | 0.09          | 0.10          |

- NOTES:**
- Performance shown with dry coil & standard 2" [50.8 mm] filters.
  - Standard CFM @ .075 lbs./cu. ft.
  - Motor efficiency = 80%
  - BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
  - Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE — 4 TON [14.07 kW] 3 PHASE BELT DRIVE

| Air Flow<br>CFM [L/s] |     | Capacity 4 Ton [14.07 kW] Voltage 208/230/460/575, 3-Phase |           |           |           |           |           |           |           |           |           | External Static Pressure—Inches of Water [kPa] |           |           |           |           |      |      |      |      |      |
|-----------------------|-----|------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------------------------------|-----------|-----------|-----------|-----------|------|------|------|------|------|
|                       |     | 0.1 [.02]                                                  | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] | 0.8 [.20] | 0.9 [.22] | 1.0 [.25] | 1.1 [.27]                                      | 1.2 [.30] | 1.3 [.32] | 1.4 [.35] | 1.5 [.37] |      |      |      |      |      |
| RPM                   | W   | RPM                                                        | W         | RPM       | W         | RPM       | W         | RPM       | W         | RPM       | W         | RPM                                            | W         | RPM       | W         | RPM       | W    | RPM  | W    | RPM  | W    |
| 1200 [566]            | —   | —                                                          | —         | —         | 817       | 425       | 879       | 440       | 456       | 999       | 475       | 1057                                           | 496       | 1113      | 519       | 1168      | 545  | 1221 | 572  | 1272 | 602  |
| 1300 [614]            | —   | —                                                          | —         | —         | 838       | 437       | 899       | 457       | 958       | 479       | 1015      | 503                                            | 1071      | 529       | 1126      | 558       | 1178 | 589  | 1230 | 622  | 1279 |
| 1400 [661]            | —   | —                                                          | —         | —         | 861       | 457       | 919       | 482       | 976       | 510       | 1032      | 539                                            | 1086      | 571       | 1138      | 605       | 1189 | 641  | 1239 | 680  | 1286 |
| 1500 [708]            | —   | —                                                          | —         | —         | 883       | 486       | 940       | 517       | 995       | 549       | 1048      | 584                                            | 1101      | 622       | 1151      | 661       | 1200 | 703  | 1248 | 746  | 1294 |
| 1600 [755]            | —   | —                                                          | 798       | 449       | 849       | 490       | 905       | 523       | 960       | 559       | 1013      | 598                                            | 1065      | 638       | 1115      | 681       | 1164 | 725  | 1211 | 772  | 1257 |
| 1700 [802]            | —   | —                                                          | 817       | 493       | 873       | 530       | 928       | 569       | 981       | 611       | 1032      | 654                                            | 1082      | 700       | 1130      | 748       | 1177 | 798  | 1222 | 851  | 1308 |
| 1800 [850]            | 791 | 490                                                        | 844       | 537       | 898       | 579       | 950       | 624       | 1002      | 670       | 1051      | 719                                            | 1099      | 771       | 1146      | 824       | 1190 | 880  | 1234 | 937  | 1316 |
| 1900 [897]            | 816 | 543                                                        | 870       | 589       | 923       | 637       | 973       | 687       | 1023      | 739       | 1070      | 793                                            | 1116      | 850       | 1161      | 908       | 1204 | 969  | 1245 | 1033 | 1324 |
| 2000 [944]            | 845 | 599                                                        | 897       | 650       | 947       | 703       | 996       | 758       | 1044      | 816       | 1089      | 875                                            | 1134      | 937       | 1176      | 1002      | 1217 | 1068 | 1257 | 1137 | 1332 |

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

| Drive Package  | L                          |     |     |     |     | M                          |      |      |      |      | N Drive (Field Supplied)   |      |      |      |      |
|----------------|----------------------------|-----|-----|-----|-----|----------------------------|------|------|------|------|----------------------------|------|------|------|------|
| Motor H.P. [W] | 1/2 [373]                  |     |     |     |     | 3/4 [559]                  |      |      |      |      | 3/4 [559]                  |      |      |      |      |
| Blower Sheave  | 6.9" Pitch Diameter        |     |     |     |     | 6.4" Pitch Diameter        |      |      |      |      | 6.4" Pitch Diameter        |      |      |      |      |
| Motor Sheave   | 2.8" - 3.8" Pitch Diameter |     |     |     |     | 3.4" - 4.4" Pitch Diameter |      |      |      |      | 4.0" - 5.0" Pitch Diameter |      |      |      |      |
| Turns Open     | 0                          | 1   | 2   | 3   | 4   | 5                          | 0    | 1    | 2    | 3    | 4                          | 5    | 5    | 5    | 5    |
| RPM            | 1029                       | 984 | 950 | 915 | 855 | 816                        | 1281 | 1207 | 1174 | 1141 | 1111                       | 1071 | 1071 | 1071 | 1071 |

## COMPONENT AIR RESISTANCE

| CFM [L/s]                        | Standard Indoor Airflow—CFM [L/s] |               |               |               |               |               |
|----------------------------------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
|                                  | 1000<br>[472]                     | 1200<br>[566] | 1400<br>[661] | 1600<br>[755] | 1800<br>[850] | 2000<br>[944] |
|                                  | Resistance—Inches Water [kPa]     |               |               |               |               |               |
|                                  |                                   |               |               |               |               |               |
| Wet Coil                         | 0.035                             | 0.040         | 0.060         | 0.070         | 0.085         | 0.100         |
| Downflow                         | 0.055                             | 0.060         | 0.066         | 0.072         | 0.080         | 0.086         |
| R.S.I. Economizer<br>R.A. Damper | 0.05                              | 0.06          | 0.07          | 0.08          | 0.09          | 0.10          |

### NOTES:

- Performance shown with dry coil & standard 2" [50.8 mm] filters.
- Standard CFM @ .075 lbs./cu. ft.
- Motor efficiency = 80%
- BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
- Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions



**AIRFLOW PERFORMANCE— 5 TON [17.6 kW] 14 SEER Voltage 208/230/460/575, 3-Phase**

| Air Flow<br>CFM [L/s] | Capacity 5 Ton [17.6 kW] 14 SEER Voltage 208/230/460/575, 3-Phase |            |            |            |            |            |            |            |            |            |            |            |            |            |            |      |      |      |      |      |
|-----------------------|-------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|------|------|------|------|
|                       | External Static Pressure—Inches of Water [kPa]                    |            |            |            |            |            |            |            |            |            |            |            |            |            |            |      |      |      |      |      |
|                       | 0.1 [0.2]                                                         | 0.2 [0.05] | 0.3 [0.07] | 0.4 [0.10] | 0.5 [0.12] | 0.6 [0.15] | 0.7 [0.17] | 0.8 [0.20] | 0.9 [0.22] | 1.0 [0.25] | 1.1 [0.27] | 1.2 [0.30] | 1.3 [0.32] | 1.4 [0.35] | 1.5 [0.37] |      |      |      |      |      |
|                       | RPM                                                               | W          | RPM        | W          | RPM        | W          | RPM        | W          | RPM        | W          | RPM        | W          | RPM        | W          | RPM        | W    | RPM  | W    | RPM  | W    |
| 1400 [661]            | —                                                                 | —          | —          | 784        | 466        | 835        | 497        | 886        | 533        | 935        | 574        | 983        | 621        | 1030       | 674        | 1077 | 732  | 795  | 1166 | 864  |
| 1500 [708]            | —                                                                 | —          | —          | 800        | 484        | 850        | 519        | 899        | 558        | 947        | 604        | 994        | 655        | 1040       | 711        | 1085 | 773  | 841  | 1172 | 914  |
| 1600 [755]            | —                                                                 | —          | —          | 766        | 478        | 816        | 511        | 865        | 549        | 913        | 593        | 960        | 643        | 1006       | 698        | 1051 | 758  | 824  | 1137 | 895  |
| 1700 [802]            | —                                                                 | —          | —          | 785        | 509        | 833        | 546        | 881        | 589        | 928        | 637        | 974        | 690        | 1018       | 749        | 1062 | 813  | 883  | 1146 | 959  |
| 1800 [850]            | —                                                                 | —          | 755        | 505        | 804        | 550        | 851        | 591        | 898        | 943        | 689        | 988        | 747        | 1031       | 810        | 1074 | 878  | 952  | 1156 | 1031 |
| 1900 [897]            | 716                                                               | 491        | 776        | 560        | 823        | 600        | 869        | 645        | 915        | 965        | 751        | 1003       | 812        | 1045       | 879        | 1086 | 951  | 1127 | 1029 | 1166 |
| 2000 [944]            | 745                                                               | 562        | 797        | 615        | 843        | 658        | 889        | 707        | 933        | 762        | 976        | 821        | 1018       | 887        | 1059       | 958  | 1034 | 1139 | 1116 | 1177 |
| 2100 [991]            | 773                                                               | 637        | 819        | 679        | 864        | 726        | 908        | 779        | 951        | 837        | 993        | 901        | 1034       | 970        | 1074       | 1045 | 1113 | 1125 | 1151 | 1211 |
| 2200 [1038]           | 797                                                               | 706        | 842        | 751        | 886        | 803        | 929        | 860        | 971        | 922        | 1011       | 990        | 1051       | 1063       | 1090       | 1142 | 1128 | 1226 | 1165 | 1316 |
| 2300 [1085]           | 822                                                               | 783        | 865        | 833        | 908        | 888        | 950        | 949        | 990        | 1015       | 1030       | 1087       | 1069       | 1164       | 1106       | 1247 | 1143 | 1335 | 1179 | 1429 |
| 2400 [1133]           | 847                                                               | 870        | 889        | 924        | 931        | 983        | 971        | 1048       | 1011       | 1118       | 1049       | 1194       | 1087       | 1275       | 1123       | 1362 | 1159 | 1454 | 1193 | 1551 |
| 2500 [1179]           | 873                                                               | 966        | 914        | 1023       | 954        | 1087       | 994        | 1155       | 1032       | 1229       | 1069       | 1309       | 1106       | 1394       | 1141       | 1485 | 1175 | 1581 | 1209 | 1683 |

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

| Drive Package  | L                          |     |            |     |     | M                          |      |      |      |             | N Drive (Field Supplied)   |      |                       |  |  |
|----------------|----------------------------|-----|------------|-----|-----|----------------------------|------|------|------|-------------|----------------------------|------|-----------------------|--|--|
| Motor H.P. [W] | 3/4 [559]                  |     |            |     |     | 1 [746]                    |      |      |      |             | 1 [746]                    |      |                       |  |  |
| Blower Sheave  | 6.9" Pitch Diameter        |     |            |     |     | 6.9" Pitch Diameter        |      |      |      |             | 6.4" Pitch Diameter        |      |                       |  |  |
| Motor Sheave   | 2.8" - 3.8" Pitch Diameter |     |            |     |     | 4.0" - 5.0" Pitch Diameter |      |      |      |             | 4.0" - 5.0" Pitch Diameter |      |                       |  |  |
| Turns Open     | 0                          | 1   | 2          | 3   | 4   | 5                          | 0    | 1    | 2    | 3           | 4                          | 5    | RPM Range - 1080-1348 |  |  |
| RPM            | 967                        | 936 | <b>900</b> | 855 | 816 | 769                        | 1248 | 1203 | 1163 | <b>1123</b> | 1078                       | 1042 |                       |  |  |

**COMPONENT AIR RESISTANCE**

| CFM [L/s]                        | Standard Indoor Airflow—CFM [L/s] |               |               |                |                |                |  |
|----------------------------------|-----------------------------------|---------------|---------------|----------------|----------------|----------------|--|
|                                  | 1600<br>[755]                     | 1800<br>[850] | 2000<br>[944] | 2200<br>[1038] | 2400<br>[1133] | 2600<br>[1227] |  |
|                                  | Resistance—Inches Water [kPa]     |               |               |                |                |                |  |
| Wet Coil                         | 0.070                             | 0.085         | 0.100         | 0.110          | 0.120          | 0.125          |  |
| Downflow                         | 0.072                             | 0.080         | 0.086         | 0.093          | 0.100          | 0.107          |  |
| R.S.I. Economizer<br>R.A. Damper | 0.08                              | 0.09          | 0.10          | 0.11           | 0.12           | 0.13           |  |

- NOTES:**
- 1. Performance shown with dry coil & standard 2" [50.8 mm] filters.
  - 2. Standard CFM @ .075 lbs./cu. ft.
  - 3. Motor efficiency = 80%
  - 4. BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
  - 5. Add component resistance to duct static to determine E.S.P. as shown on charts.

[ ] Designates Metric Conversions

DIRECT-DRIVE 208 AIRFLOW PERFORMANCE

| 5-TON 15 SEER<br>2-STAGE<br>CV & DV MODELS |                    | CFM<br>Setting | CFM [L/s] Air Delivery/RPM/Watts-230/460 Volts |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
|--------------------------------------------|--------------------|----------------|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
|                                            |                    |                | External Static Pressure—Inches W.C. [kPa]     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |  |
|                                            |                    |                | 0.1 [.02]                                      | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] | 0.8 [.20] | 0.9 [.22] | 1.0 [.25] | 1.1 [.27] | 1.2 [.30] | 1.3 [.32] | 1.4 [.35] | 1.5 [.37] |  |
| 1st Stage Cooling                          | FACTORY<br>SETTING | CFM            | 1393                                           | 1418      | 1443      | 1463      | 1470      | 1448      | 1456      | 1463      | 1415      | 1403      | 1376      | 1341      | 1289      | 1265      | 1229      |  |
|                                            |                    | RPM            | 610                                            | 688       | 754       | 800       | 873       | 940       | 992       | 1026      | 1080      | 1130      | 1160      | 1186      | 1213      | 1254      | 1292      |  |
|                                            |                    | Watts          | 215                                            | 266       | 314       | 350       | 409       | 466       | 515       | 550       | 599       | 653       | 683       | 710       | 742       | 791       | 835       |  |
|                                            | OPTIONAL           | CFM            | 1579                                           | 1599      | 1626      | 1642      | 1647      | 1642      | 1651      | 1648      | 1644      | 1633      | 1616      | 1570      | 1523      | 1499      | 1397      |  |
|                                            |                    | RPM            | 676                                            | 734       | 793       | 850       | 903       | 952       | 1004      | 1054      | 1095      | 1139      | 1186      | 1225      | 1265      | 1297      | 1321      |  |
|                                            |                    | Watts          | 302                                            | 349       | 404       | 454       | 508       | 560       | 614       | 670       | 717       | 772       | 836       | 885       | 942       | 988       | 989       |  |
| 2nd Stage Cooling                          | FACTORY<br>SETTING | CFM            | 1758                                           | 1784      | 1796      | 1801      | 1820      | 1825      | 1834      | 1826      | 1832      | 1830      | 1814      | 1817      | 1795      | 1682      | 1561      |  |
|                                            |                    | RPM            | 722                                            | 782       | 836       | 874       | 932       | 971       | 1022      | 1065      | 1114      | 1150      | 1189      | 1231      | 1273      | 1319      | 1348      |  |
|                                            |                    | Watts          | 392                                            | 451       | 508       | 547       | 615       | 664       | 728       | 786       | 854       | 908       | 968       | 1036      | 1106      | 1147      | 1127      |  |
|                                            | OPTIONAL           | CFM            | 2075                                           | 2087      | 2088      | 2085      | 2090      | 2101      | 2114      | 2106      | 2105      | 2101      | 2034      | 2001      | 1943      | 1855      | 1628      |  |
|                                            |                    | RPM            | 798                                            | 843       | 897       | 936       | 981       | 1018      | 1057      | 1096      | 1136      | 1170      | 1203      | 1241      | 1272      | 1309      | 1349      |  |
|                                            |                    | Watts          | 590                                            | 646       | 714       | 769       | 835       | 890       | 953       | 1014      | 1082      | 1137      | 1167      | 1193      | 1220      | 1241      | 1186      |  |
| OPTIONAL                                   | CFM                | 2222           | 2220                                           | 2239      | 2244      | 2261      | 2236      | 2216      | 2180      | 2146      | 2110      | 2051      | 2010      | 1958      | 1863      | 1636      |           |  |
|                                            | RPM                | 841            | 883                                            | 933       | 971       | 1008      | 1046      | 1075      | 1106      | 1141      | 1173      | 1207      | 1238      | 1273      | 1312      | 1351      |           |  |
|                                            | Watts              | 717            | 777                                            | 856       | 921       | 984       | 1037      | 1054      | 1083      | 1115      | 1143      | 1176      | 1201      | 1233      | 1250      | 1195      |           |  |

[ ] Designates Metric Conversions

## ELECTRICAL DATA – RLPN SERIES

|                  |                                            | C036CL000 | C036CM000 | C036DL000 | C036DM000 | C048CL000 | C048CM000 |
|------------------|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Unit Information | Unit Operating Voltage Range               | 187-253   | 187-253   | 414-506   | 414-506   | 187-253   | 187-253   |
|                  | Volts                                      | 208/230   | 208/230   | 460       | 460       | 208/230   | 208/230   |
|                  | Minimum Circuit Ampacity                   | 16/16     | 16/16     | 10        | 10        | 21/21     | 22/22     |
|                  | Minimum Overcurrent Protection Device Size | 20/20     | 20/20     | 15        | 15        | 25/25     | 25/25     |
|                  | Maximum Overcurrent Protection Device Size | 20/20     | 20/20     | 15        | 15        | 30/30     | 30/30     |
| Compressor Motor | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                  | Volts                                      | 208/230   | 208/230   | 460       | 460       | 208/230   | 208/230   |
|                  | Phase                                      | 3         | 3         | 3         | 3         | 3         | 3         |
|                  | RPM                                        | 3450      | 3450      | 3450      | 3450      | 3450      | 3450      |
|                  | HP, Compressor 1                           | 3         | 3         | 3         | 3         | 4         | 4         |
|                  | Amps (RLA), Comp. 1                        | 9/9       | 9/9       | 5.6       | 5.6       | 13.1/13.1 | 13.1/13.1 |
|                  | Amps (LRA), Comp. 1                        | 71/71     | 71/71     | 38        | 38        | 83.1/83.1 | 83.1/83.1 |
| Condenser Motor  | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                  | Volts                                      | 208/230   | 208/230   | 460       | 460       | 208/230   | 208/230   |
|                  | Phase                                      | 1         | 1         | 1         | 1         | 1         | 1         |
|                  | HP                                         | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       |
|                  | Amps (FLA, each)                           | 1.5/1.5   | 1.5/1.5   | 1         | 1         | 1.5/1.5   | 1.5/1.5   |
|                  | Amps (LRA, each)                           | 3/3       | 3/3       | 1.9       | 1.9       | 3/3       | 3/3       |
| Evaporator Fan   | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                  | Volts                                      | 208/230   | 208/230   | 460       | 460       | 208/230   | 208/230   |
|                  | Phase                                      | 3         | 3         | 3         | 3         | 3         | 3         |
|                  | HP                                         | 1/2       | 1/2       | 1/2       | 1/2       | 1/2       | 3/4       |
|                  | Amps (FLA, each)                           | 2.8/2.8   | 2.8/2.8   | 1.4       | 1.4       | 2.8/2.8   | 3.4/3.4   |
|                  | Amps (LRA, each)                           | 11.3/11.3 | 16.8/16.8 | 6.2       | 8.4       | 11.3/11.3 | 16.8/16.8 |

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

| ELECTRICAL DATA – RLPN SERIES |                                            |           |           |           |           |           |           |
|-------------------------------|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                               |                                            | C048DL000 | C048DM000 | C060CL000 | C060CM000 | C060DL000 | C060DM000 |
| Unit Information              | Unit Operating Voltage Range               | 414-506   | 414-506   | 187-253   | 187-253   | 414-506   | 414-506   |
|                               | Volts                                      | 460       | 460       | 208/230   | 208/230   | 460       | 460       |
|                               | Minimum Circuit Ampacity                   | 11        | 11        | 26/26     | 27/27     | 13        | 13        |
|                               | Minimum Overcurrent Protection Device Size | 15        | 15        | 30/30     | 35/35     | 15        | 15        |
|                               | Maximum Overcurrent Protection Device Size | 15        | 15        | 40/40     | 40/40     | 20        | 20        |
| Compressor Motor              | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                               | Volts                                      | 460       | 460       | 208/230   | 208/230   | 460       | 460       |
|                               | Phase                                      | 3         | 3         | 3         | 3         | 3         | 3         |
|                               | RPM                                        | 3450      | 3450      | 3450      | 3450      | 3450      | 3450      |
|                               | HP, Compressor 1                           | 4         | 4         | 5         | 5         | 5         | 5         |
|                               | Amps (RLA), Comp. 1                        | 6.1       | 6.1       | 16/16     | 16/16     | 7.8       | 7.8       |
|                               | Amps (LRA), Comp. 1                        | 41        | 41        | 110/110   | 110/110   | 52        | 52        |
| Condenser Motor               | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                               | Volts                                      | 460       | 460       | 208/230   | 208/230   | 460       | 460       |
|                               | Phase                                      | 1         | 1         | 1         | 1         | 1         | 1         |
|                               | HP                                         | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       |
|                               | Amps (FLA, each)                           | 1         | 1         | 2.2/2.2   | 2.2/2.2   | 1         | 1         |
|                               | Amps (LRA, each)                           | 1.9       | 1.9       | 4.9/4.9   | 4.9/4.9   | 1.9       | 1.9       |
| Evaporator Fan                | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                               | Volts                                      | 460       | 460       | 208/230   | 208/230   | 460       | 460       |
|                               | Phase                                      | 3         | 3         | 3         | 3         | 3         | 3         |
|                               | HP                                         | 1/2       | 3/4       | 3/4       | 1         | 3/4       | 1         |
|                               | Amps (FLA, each)                           | 1.4       | 1.6       | 3.4/3.4   | 4.1/4.1   | 1.6       | 2         |
|                               | Amps (LRA, each)                           | 6.2       | 8.4       | 16.8/16.8 | 24/24     | 8.4       | 12        |

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

## ELECTRICAL DATA – RLQN SERIES

|                         |                                            | <b>C036CL000</b> | <b>C036CM000</b> | <b>C036DL000</b> | <b>C036DM000</b> | <b>C048CL000</b> |
|-------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Unit Information</b> | Unit Operating Voltage Range               | 187-253          | 187-253          | 414-506          | 414-506          | 187-253          |
|                         | Volts                                      | 208/230          | 208/230          | 460              | 460              | 208/230          |
|                         | Minimum Circuit Ampacity                   | 16/16            | 16/16            | 10               | 10               | 21/21            |
|                         | Minimum Overcurrent Protection Device Size | 20/20            | 20/20            | 15               | 15               | 25/25            |
|                         | Maximum Overcurrent Protection Device Size | 20/20            | 20/20            | 15               | 15               | 30/30            |
| <b>Compressor Motor</b> | No.                                        | 1                | 1                | 1                | 1                | 1                |
|                         | Volts                                      | 208/230          | 208/230          | 460              | 460              | 208/230          |
|                         | Phase                                      | 3                | 3                | 3                | 3                | 3                |
|                         | RPM                                        | 3450             | 3450             | 3450             | 3450             | 3450             |
|                         | HP, Compressor 1                           | 3                | 3                | 3                | 3                | 4                |
|                         | Amps (RLA), Comp. 1                        | 9/9              | 9/9              | 5.6              | 5.6              | 13.1/13.1        |
|                         | Amps (LRA), Comp. 1                        | 71/71            | 71/71            | 38               | 38               | 83.1/83.1        |
| <b>Condenser Motor</b>  | No.                                        | 1                | 1                | 1                | 1                | 1                |
|                         | Volts                                      | 208/230          | 208/230          | 460              | 460              | 208/230          |
|                         | Phase                                      | 1                | 1                | 1                | 1                | 1                |
|                         | HP                                         | 1/3              | 1/3              | 1/3              | 1/3              | 1/3              |
|                         | Amps (FLA, each)                           | 1.5/1.5          | 1.5/1.5          | 1                | 1                | 1.5/1.5          |
|                         | Amps (LRA, each)                           | 3/3              | 3/3              | 1.9              | 1.9              | 3/3              |
| <b>Evaporator Fan</b>   | No.                                        | 1                | 1                | 1                | 1                | 1                |
|                         | Volts                                      | 208/230          | 208/230          | 460              | 460              | 208/230          |
|                         | Phase                                      | 3                | 3                | 3                | 3                | 3                |
|                         | HP                                         | 1/2              | 1/2              | 1/2              | 1/2              | 1/2              |
|                         | Amps (FLA, each)                           | 2.8/2.8          | 2.8/2.8          | 1.4              | 1.4              | 2.8/2.8          |
|                         | Amps (LRA, each)                           | 11.3/11.3        | 16.8/16.8        | 6.2              | 8.4              | 11.3/11.3        |

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

| ELECTRICAL DATA – RLQN SERIES |                                            |           |           |           |           |           |
|-------------------------------|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|
|                               |                                            | C048CM000 | C048DL000 | C048DM000 | C060CV000 | C060DV000 |
| Unit Information              | Unit Operating Voltage Range               | 187-253   | 414-506   | 414-506   | 187-253   | 414-506   |
|                               | Volts                                      | 208/230   | 460       | 460       | 208/230   | 460       |
|                               | Minimum Circuit Ampacity                   | 22/22     | 11        | 11        | 32/32     | 16        |
|                               | Minimum Overcurrent Protection Device Size | 25/25     | 15        | 15        | 40/40     | 20        |
|                               | Maximum Overcurrent Protection Device Size | 30/30     | 15        | 15        | 45/45     | 20        |
| Compressor Motor              | No.                                        | 1         | 1         | 1         | 1         | 1         |
|                               | Volts                                      | 208/230   | 460       | 460       | 208/230   | 460       |
|                               | Phase                                      | 3         | 3         | 3         | 3         | 3         |
|                               | RPM                                        | 3450      | 3450      | 3450      | 3450      | 3450      |
|                               | HP, Compressor 1                           | 4         | 4         | 4         | 5         | 5         |
|                               | Amps (RLA), Comp. 1                        | 13.1/13.1 | 6.1       | 6.1       | 16.2/16.2 | 7.6       |
|                               | Amps (LRA), Comp. 1                        | 83.1/83.1 | 41        | 41        | 110/110   | 52        |
| Condenser Motor               | No.                                        | 1         | 1         | 1         | 1         | 1         |
|                               | Volts                                      | 208/230   | 460       | 460       | 208/230   | 460       |
|                               | Phase                                      | 1         | 1         | 1         | 1         | 1         |
|                               | HP                                         | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       |
|                               | Amps (FLA, each)                           | 1.5/1.5   | 1         | 1         | 2.2/2.2   | 1         |
|                               | Amps (LRA, each)                           | 3/3       | 1.9       | 1.9       | 4.9/4.9   | 1.9       |
| Evaporator Fan                | No.                                        | 1         | 1         | 1         | 1         | 1         |
|                               | Volts                                      | 208/230   | 460       | 460       | 208/230   | 460       |
|                               | Phase                                      | 3         | 3         | 3         | 3         | 3         |
|                               | HP                                         | 3/4       | 1/2       | 3/4       | 1         | 1         |
|                               | Amps (FLA, each)                           | 3.4/3.4   | 1.4       | 1.6       | 9.1/9.1   | 4.6       |
|                               | Amps (LRA, each)                           | 16.8/16.8 | 6.2       | 8.4       | 0/0       | 0         |

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.



| Unit Model No. RLPN- | Heater Kit Model No. RXJJ- | Heater kW @ 208/240 V | Heater Kit FLA | Unit Min. Ckt. Ampacity | Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Heater Kit Min. Ckt. Ampacity | Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Air Conditioner Min. Ckt. Ampacity | Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) |
|----------------------|----------------------------|-----------------------|----------------|-------------------------|-------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| C036CL               | NONE                       | —                     | —              | 16/16                   | 20/20                                                             | —                             | —                                                                            | 16/16                              | 20/20                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 19/21                   | 20/25                                                             | 15/17                         | 15/20                                                                        | 16/16                              | 20/20                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 29/33                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 16/16                              | 20/20                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 33/38                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 16/16                              | 20/20                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/47                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 16/16                              | 20/20                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 54/62                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 16/16                              | 20/20                                                                             |
| C036CM               | NONE                       | —                     | —              | 16/16                   | 20/20                                                             | —                             | —                                                                            | 16/16                              | 20/20                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 19/21                   | 20/25                                                             | 15/17                         | 15/20                                                                        | 16/16                              | 20/20                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 29/33                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 16/16                              | 20/20                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 33/38                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 16/16                              | 20/20                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/47                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 16/16                              | 20/20                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 54/62                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 16/16                              | 20/20                                                                             |
| C048CL               | NONE                       | —                     | —              | 21/21                   | 30/30                                                             | —                             | —                                                                            | 21/21                              | 30/30                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 21/21                   | 30/30                                                             | 15/17                         | 15/20                                                                        | 21/21                              | 30/30                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 29/33                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 21/21                              | 30/30                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 33/38                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 21/21                              | 30/30                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/47                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 21/21                              | 30/30                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 54/62                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 21/21                              | 30/30                                                                             |
| C048CM               | NONE                       | —                     | —              | 22/22                   | 30/30                                                             | —                             | —                                                                            | 22/22                              | 30/30                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 22/22                   | 30/30                                                             | 15/17                         | 15/20                                                                        | 22/22                              | 30/30                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 30/34                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 22/22                              | 30/30                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 34/39                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 22/22                              | 30/30                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/48                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 22/22                              | 30/30                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 55/63                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 22/22                              | 30/30                                                                             |
| C060CL               | NONE                       | —                     | —              | 26/26                   | 40/40                                                             | —                             | —                                                                            | 26/26                              | 40/40                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 26/26                   | 40/40                                                             | 15/17                         | 15/20                                                                        | 26/26                              | 40/40                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 30/34                   | 40/40                                                             | 25/29                         | 25/30                                                                        | 26/26                              | 40/40                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 34/39                   | 40/40                                                             | 30/34                         | 30/35                                                                        | 26/26                              | 40/40                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/48                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 26/26                              | 40/40                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 55/63                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 26/26                              | 40/40                                                                             |
|                      | A24C                       | 18/24                 | 50/57.7        | 67/77                   | 70/80                                                             | 63/73                         | 70/80                                                                        | 26/26                              | 40/40                                                                             |
| C060CM               | NONE                       | —                     | —              | 27/27                   | 40/40                                                             | —                             | —                                                                            | 27/27                              | 40/40                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 27/27                   | 40/40                                                             | 15/17                         | 15/20                                                                        | 27/27                              | 40/40                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 31/35                   | 40/40                                                             | 25/29                         | 25/30                                                                        | 27/27                              | 40/40                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 35/39                   | 40/40                                                             | 30/34                         | 30/35                                                                        | 27/27                              | 40/40                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 43/49                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 27/27                              | 40/40                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 56/63                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 27/27                              | 40/40                                                                             |
|                      | A24C                       | 18/24                 | 50/57.7        | 68/78                   | 70/80                                                             | 63/73                         | 70/80                                                                        | 27/27                              | 40/40                                                                             |

| Unit Model No.<br>RLPN- | Heater Kit Model No.<br>RXJ- | Heater kW @ 480 V | Heater Kit FLA | Unit Min. Ckt. Ampacity | Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Heater Kit Min. Ckt. Ampacity | Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Air Conditioner Min. Ckt. Ampacity | Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) |
|-------------------------|------------------------------|-------------------|----------------|-------------------------|-------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| C036DL                  | NONE                         | —                 | —              | 10                      | 15                                                                | —                             | —                                                                            | 10                                 | 15                                                                                |
|                         | A06D                         | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 10                                 | 15                                                                                |
|                         | A10D                         | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 10                                 | 15                                                                                |
|                         | A12D                         | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 10                                 | 15                                                                                |
|                         | A15D                         | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 10                                 | 15                                                                                |
|                         | A20D                         | 19.2              | 23.3           | 31                      | 35                                                                | 30                            | 30                                                                           | 10                                 | 15                                                                                |
| C036DM                  | NONE                         | —                 | —              | 10                      | 15                                                                | —                             | —                                                                            | 10                                 | 15                                                                                |
|                         | A06D                         | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 10                                 | 15                                                                                |
|                         | A10D                         | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 10                                 | 15                                                                                |
|                         | A12D                         | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 10                                 | 15                                                                                |
|                         | A15D                         | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 10                                 | 15                                                                                |
|                         | A20D                         | 19.2              | 23.3           | 31                      | 35                                                                | 30                            | 30                                                                           | 10                                 | 15                                                                                |
| C048DL                  | NONE                         | —                 | —              | 11                      | 15                                                                | —                             | —                                                                            | 11                                 | 15                                                                                |
|                         | A06D                         | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 11                                 | 15                                                                                |
|                         | A10D                         | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 11                                 | 15                                                                                |
|                         | A12D                         | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 11                                 | 15                                                                                |
|                         | A15D                         | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 11                                 | 15                                                                                |
|                         | A20D                         | 19.2              | 23.3           | 31                      | 35                                                                | 30                            | 30                                                                           | 11                                 | 15                                                                                |
| C048DM                  | NONE                         | —                 | —              | 11                      | 15                                                                | —                             | —                                                                            | 11                                 | 15                                                                                |
|                         | A06D                         | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 11                                 | 15                                                                                |
|                         | A10D                         | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 11                                 | 15                                                                                |
|                         | A12D                         | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 11                                 | 15                                                                                |
|                         | A15D                         | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 11                                 | 15                                                                                |
|                         | A20D                         | 19.2              | 23.3           | 32                      | 35                                                                | 30                            | 30                                                                           | 11                                 | 15                                                                                |
| C060DL                  | NONE                         | —                 | —              | 13                      | 20                                                                | —                             | —                                                                            | 13                                 | 20                                                                                |
|                         | A06D                         | 5.6               | 6.7            | 13                      | 20                                                                | 9                             | 15                                                                           | 13                                 | 20                                                                                |
|                         | A10D                         | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 13                                 | 20                                                                                |
|                         | A12D                         | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 13                                 | 20                                                                                |
|                         | A15D                         | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 13                                 | 20                                                                                |
|                         | A20D                         | 19.2              | 23.3           | 32                      | 35                                                                | 30                            | 30                                                                           | 13                                 | 20                                                                                |
|                         | A24D                         | 24                | 28.9           | 39                      | 40                                                                | 37                            | 40                                                                           | 13                                 | 20                                                                                |
| C060DM                  | NONE                         | —                 | —              | 13                      | 20                                                                | —                             | —                                                                            | 13                                 | 20                                                                                |
|                         | A06D                         | 5.6               | 6.7            | 13                      | 20                                                                | 9                             | 15                                                                           | 13                                 | 20                                                                                |
|                         | A10D                         | 9.6               | 11.6           | 18                      | 20                                                                | 15                            | 15                                                                           | 13                                 | 20                                                                                |
|                         | A12D                         | 11.2              | 13.5           | 20                      | 20                                                                | 17                            | 20                                                                           | 13                                 | 20                                                                                |
|                         | A15D                         | 14.4              | 17.4           | 25                      | 25                                                                | 22                            | 25                                                                           | 13                                 | 20                                                                                |
|                         | A20D                         | 19.2              | 23.3           | 32                      | 35                                                                | 30                            | 30                                                                           | 13                                 | 20                                                                                |
|                         | A24D                         | 24                | 28.9           | 39                      | 40                                                                | 37                            | 40                                                                           | 13                                 | 20                                                                                |



| Unit Model No. RLPN- | Heater Kit Model No. RXJJ- | Heater kW @ 600 V | Heater Kit FLA    | Unit Min. Ckt. Ampacity | Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Heater Kit Min. Ckt. Ampacity | Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Air Conditioner Min. Ckt. Ampacity | Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) |
|----------------------|----------------------------|-------------------|-------------------|-------------------------|-------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| C036YL               | NONE<br>A15Y<br>A20Y       | —<br>14.4<br>19.2 | —<br>13.9<br>18.8 | 7<br>19<br>26           | 15<br>20<br>30                                                    | —<br>18<br>24                 | —<br>20<br>25                                                                | 7<br>7<br>7                        | 15<br>15<br>15                                                                    |
| C036YM               | NONE<br>A15Y<br>A20Y       | —<br>14.4<br>19.2 | —<br>13.9<br>18.8 | 7<br>19<br>26           | 15<br>20<br>30                                                    | —<br>18<br>24                 | —<br>20<br>25                                                                | 7<br>7<br>7                        | 15<br>15<br>15                                                                    |
| C048YL               | NONE<br>A15Y<br>A20Y       | —<br>14.4<br>19.2 | —<br>13.9<br>18.8 | 8<br>19<br>26           | 15<br>20<br>30                                                    | —<br>18<br>24                 | —<br>20<br>25                                                                | 8<br>8<br>8                        | 15<br>15<br>15                                                                    |
| C048YM               | NONE<br>A15Y<br>A20Y       | —<br>14.4<br>19.2 | —<br>13.9<br>18.8 | 8<br>19<br>26           | 15<br>20<br>30                                                    | —<br>18<br>24                 | —<br>20<br>25                                                                | 8<br>8<br>8                        | 15<br>15<br>15                                                                    |
| C060YL               | NONE<br>A15Y<br>A20Y       | —<br>14.4<br>19.2 | —<br>13.9<br>18.8 | 10<br>19<br>26          | 15<br>20<br>30                                                    | —<br>18<br>24                 | —<br>20<br>25                                                                | 10<br>10<br>10                     | 15<br>15<br>15                                                                    |
| C060YM               | NONE<br>A15Y<br>A20Y       | —<br>14.4<br>19.2 | —<br>13.9<br>18.8 | 10<br>20<br>26          | 15<br>20<br>30                                                    | —<br>18<br>24                 | —<br>20<br>25                                                                | 10<br>10<br>10                     | 15<br>15<br>15                                                                    |





Air

Electric Heater Kits  
RLQN-C Series

| Unit Model No. RLQN- | Heater Kit Model No. RXJJ- | Heater kW @ 208/240 V | Heater Kit FLA | Unit Min. Ckt. Ampacity | Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Heater Kit Min. Ckt. Ampacity | Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Air Conditioner Min. Ckt. Ampacity | Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) |
|----------------------|----------------------------|-----------------------|----------------|-------------------------|-------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| C036CL               | NONE                       | —                     | —              | 16/16                   | 20/20                                                             | —                             | —                                                                            | 16/16                              | 20/20                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 19/21                   | 20/25                                                             | 15/17                         | 15/20                                                                        | 16/16                              | 20/20                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 29/33                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 16/16                              | 20/20                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 33/38                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 16/16                              | 20/20                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/47                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 16/16                              | 20/20                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 54/62                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 16/16                              | 20/20                                                                             |
| C036CM               | NONE                       | —                     | —              | 16/16                   | 20/20                                                             | —                             | —                                                                            | 16/16                              | 20/20                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 19/21                   | 20/25                                                             | 15/17                         | 15/20                                                                        | 16/16                              | 20/20                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 29/33                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 16/16                              | 20/20                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 33/38                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 16/16                              | 20/20                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/47                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 16/16                              | 20/20                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 54/62                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 16/16                              | 20/20                                                                             |
| C048CL               | NONE                       | —                     | —              | 21/21                   | 30/30                                                             | —                             | —                                                                            | 21/21                              | 30/30                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 21/21                   | 30/30                                                             | 15/17                         | 15/20                                                                        | 21/21                              | 30/30                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 29/33                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 21/21                              | 30/30                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 33/38                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 21/21                              | 30/30                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/47                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 21/21                              | 30/30                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 54/62                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 21/21                              | 30/30                                                                             |
| C048CM               | NONE                       | —                     | —              | 22/22                   | 30/30                                                             | —                             | —                                                                            | 22/22                              | 30/30                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 22/22                   | 30/30                                                             | 15/17                         | 15/20                                                                        | 22/22                              | 30/30                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 30/34                   | 30/35                                                             | 25/29                         | 25/30                                                                        | 22/22                              | 30/30                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 34/39                   | 35/40                                                             | 30/34                         | 30/35                                                                        | 22/22                              | 30/30                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 42/48                   | 45/50                                                             | 38/44                         | 40/45                                                                        | 22/22                              | 30/30                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 55/63                   | 60/70                                                             | 50/58                         | 50/60                                                                        | 22/22                              | 30/30                                                                             |
| C060CV               | NONE                       | —                     | —              | 32/32                   | 45/45                                                             | —                             | —                                                                            | 32/32                              | 45/45                                                                             |
|                      | A06C                       | 4.2/5.6               | 11.7/13.5      | 32/32                   | 45/45                                                             | 15/17                         | 15/20                                                                        | 32/32                              | 45/45                                                                             |
|                      | A10C                       | 7.2/9.6               | 20/23.1        | 37/41                   | 45/45                                                             | 25/29                         | 25/30                                                                        | 32/32                              | 45/45                                                                             |
|                      | A12C                       | 8.4/11.2              | 23.4/27        | 41/46                   | 45/50                                                             | 30/34                         | 30/35                                                                        | 32/32                              | 45/45                                                                             |
|                      | A15C                       | 10.8/14.4             | 30.1/34.7      | 50/55                   | 50/60                                                             | 38/44                         | 40/45                                                                        | 32/32                              | 45/45                                                                             |
|                      | A20C                       | 14.4/19.2             | 40/46.3        | 62/70                   | 70/70                                                             | 50/58                         | 50/60                                                                        | 32/32                              | 45/45                                                                             |
|                      | A24C                       | 18/24                 | 50/57.7        | 74/84                   | 80/90                                                             | 63/73                         | 70/80                                                                        | 32/32                              | 45/45                                                                             |



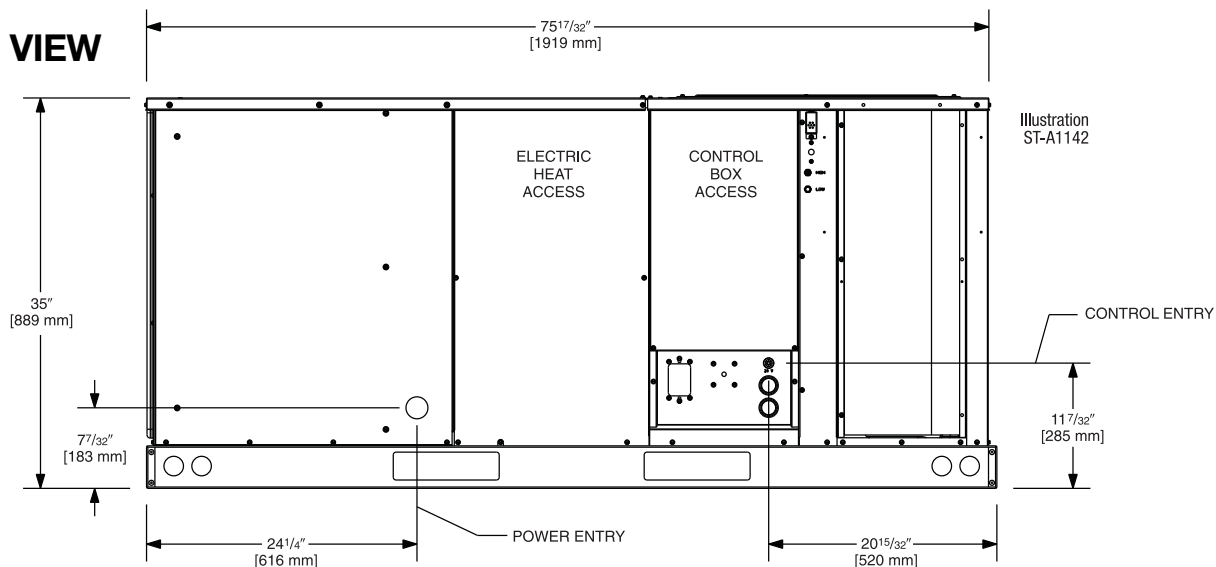
INTEGRATED AIR &amp; WATER



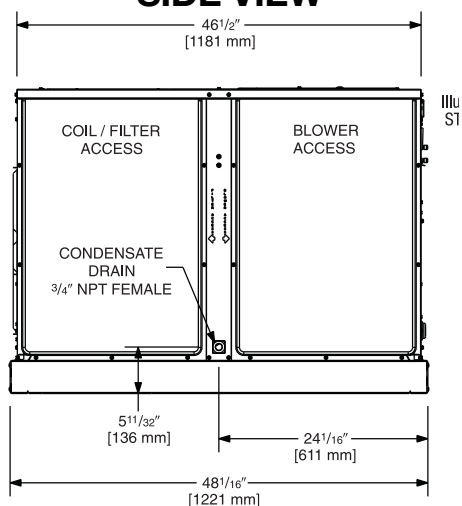
| Unit Model No. RLQN- | Heater Kit Model No. RXJJ- | Heater kW @ 480 V | Heater Kit FLA | Unit Min. Ckt. Ampacity | Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Heater Kit Min. Ckt. Ampacity | Heater Kit Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) | Air Conditioner Min. Ckt. Ampacity | Air Conditioner Max. Fuse or Ckt. Bkr. Size (Ckt. Bkr. Must be HACR Type for USA) |
|----------------------|----------------------------|-------------------|----------------|-------------------------|-------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------|
| C036DL               | NONE                       | —                 | —              | 10                      | 15                                                                | —                             | —                                                                            | 10                                 | 15                                                                                |
|                      | A06D                       | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 10                                 | 15                                                                                |
|                      | A10D                       | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 10                                 | 15                                                                                |
|                      | A12D                       | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 10                                 | 15                                                                                |
|                      | A15D                       | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 10                                 | 15                                                                                |
|                      | A20D                       | 19.2              | 23.3           | 31                      | 35                                                                | 30                            | 30                                                                           | 10                                 | 15                                                                                |
| C036DM               | NONE                       | —                 | —              | 10                      | 15                                                                | —                             | —                                                                            | 10                                 | 15                                                                                |
|                      | A06D                       | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 10                                 | 15                                                                                |
|                      | A10D                       | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 10                                 | 15                                                                                |
|                      | A12D                       | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 10                                 | 15                                                                                |
|                      | A15D                       | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 10                                 | 15                                                                                |
|                      | A20D                       | 19.2              | 23.3           | 31                      | 35                                                                | 30                            | 30                                                                           | 10                                 | 15                                                                                |
| C048DL               | NONE                       | —                 | —              | 11                      | 15                                                                | —                             | —                                                                            | 11                                 | 15                                                                                |
|                      | A06D                       | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 11                                 | 15                                                                                |
|                      | A10D                       | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 11                                 | 15                                                                                |
|                      | A12D                       | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 11                                 | 15                                                                                |
|                      | A15D                       | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 11                                 | 15                                                                                |
|                      | A20D                       | 19.2              | 23.3           | 31                      | 35                                                                | 30                            | 30                                                                           | 11                                 | 15                                                                                |
| C048DM               | NONE                       | —                 | —              | 11                      | 15                                                                | —                             | —                                                                            | 11                                 | 15                                                                                |
|                      | A06D                       | 5.6               | 6.7            | 11                      | 15                                                                | 9                             | 15                                                                           | 11                                 | 15                                                                                |
|                      | A10D                       | 9.6               | 11.6           | 17                      | 20                                                                | 15                            | 15                                                                           | 11                                 | 15                                                                                |
|                      | A12D                       | 11.2              | 13.5           | 19                      | 20                                                                | 17                            | 20                                                                           | 11                                 | 15                                                                                |
|                      | A15D                       | 14.4              | 17.4           | 24                      | 25                                                                | 22                            | 25                                                                           | 11                                 | 15                                                                                |
|                      | A20D                       | 19.2              | 23.3           | 32                      | 35                                                                | 30                            | 30                                                                           | 11                                 | 15                                                                                |
| C060DV               | NONE                       | —                 | —              | 16                      | 20                                                                | —                             | —                                                                            | 16                                 | 20                                                                                |
|                      | A06D                       | 5.6               | 6.7            | 16                      | 20                                                                | 9                             | 15                                                                           | 16                                 | 20                                                                                |
|                      | A10D                       | 9.6               | 11.6           | 21                      | 25                                                                | 15                            | 15                                                                           | 16                                 | 20                                                                                |
|                      | A12D                       | 11.2              | 13.5           | 23                      | 25                                                                | 17                            | 20                                                                           | 16                                 | 20                                                                                |
|                      | A15D                       | 14.4              | 17.4           | 28                      | 30                                                                | 22                            | 25                                                                           | 16                                 | 20                                                                                |
|                      | A20D                       | 19.2              | 23.3           | 35                      | 35                                                                | 30                            | 30                                                                           | 16                                 | 20                                                                                |
|                      | A24D                       | 24                | 28.9           | 42                      | 45                                                                | 37                            | 40                                                                           | 16                                 | 20                                                                                |

## 3 TO 5 TON [10.6 TO 17.6 kW] MODELS

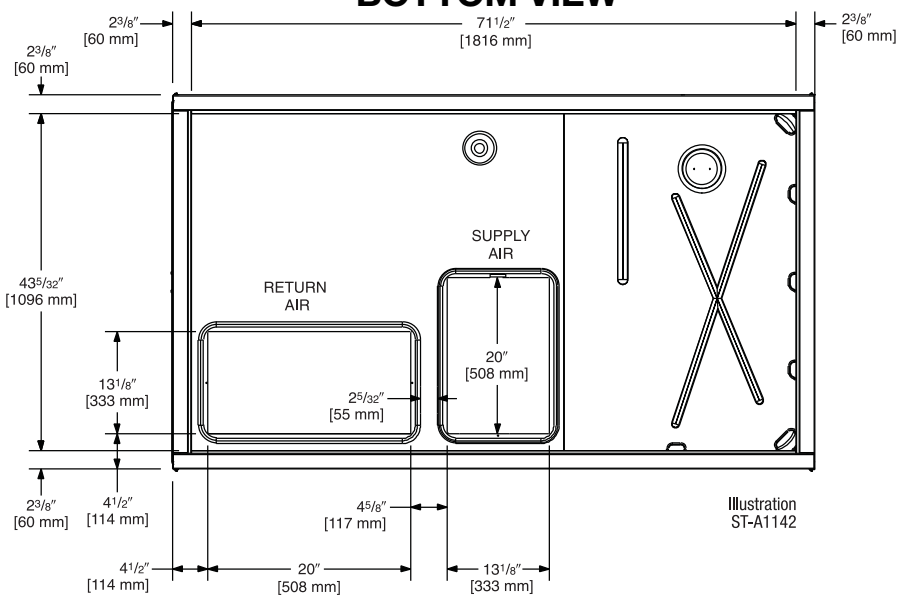
### FRONT VIEW



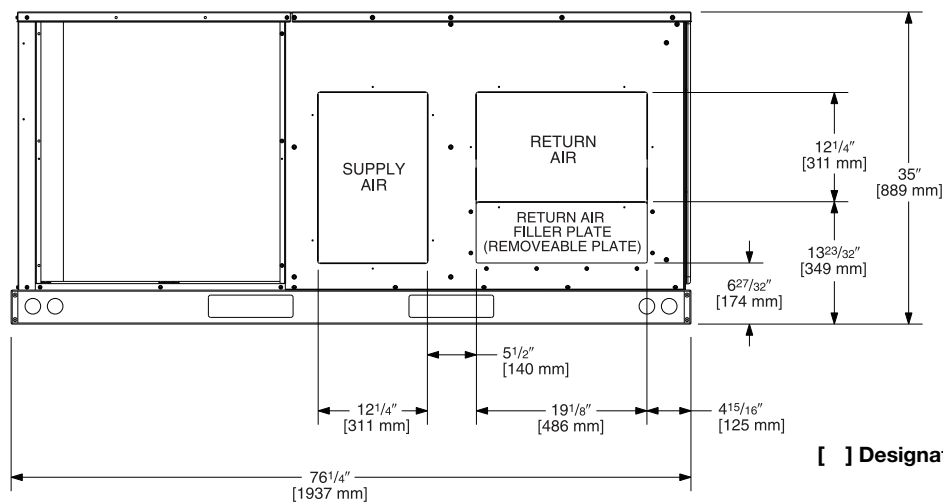
### SIDE VIEW



### BOTTOM VIEW

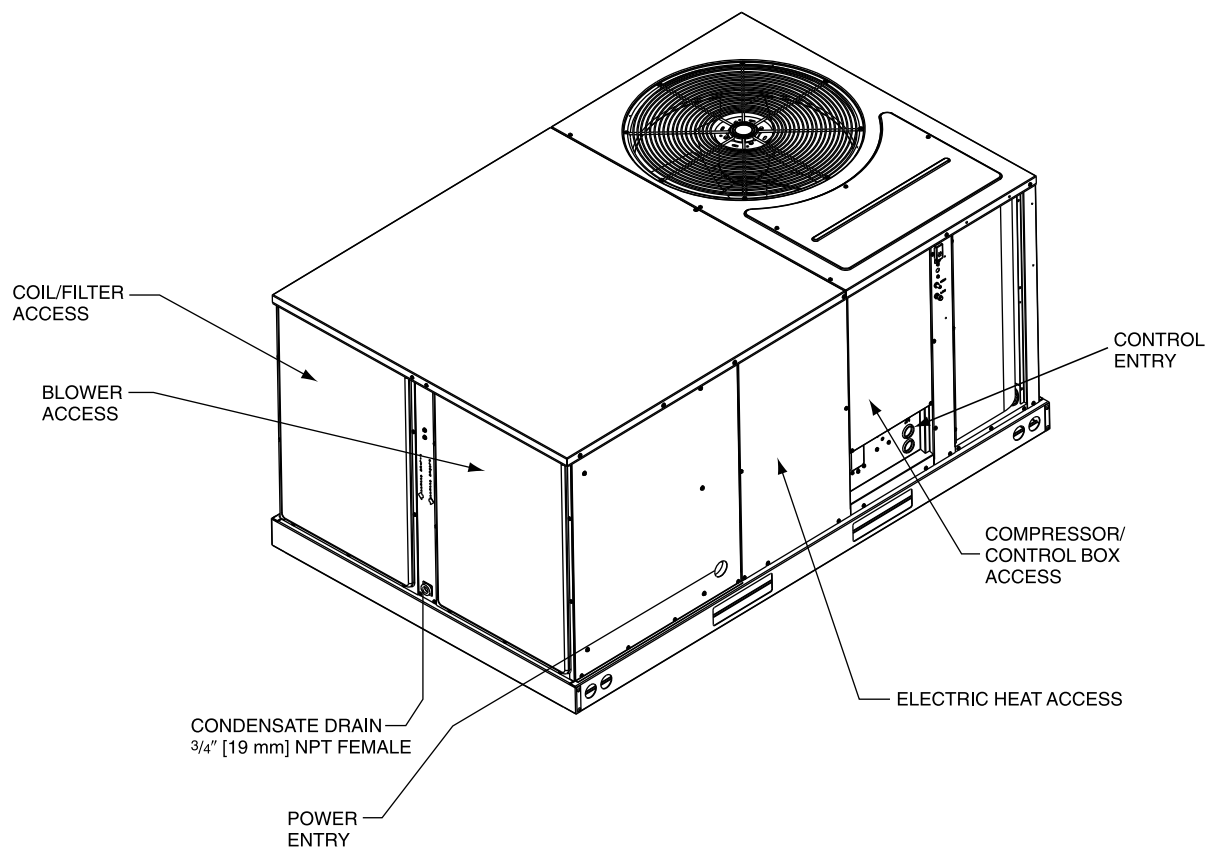
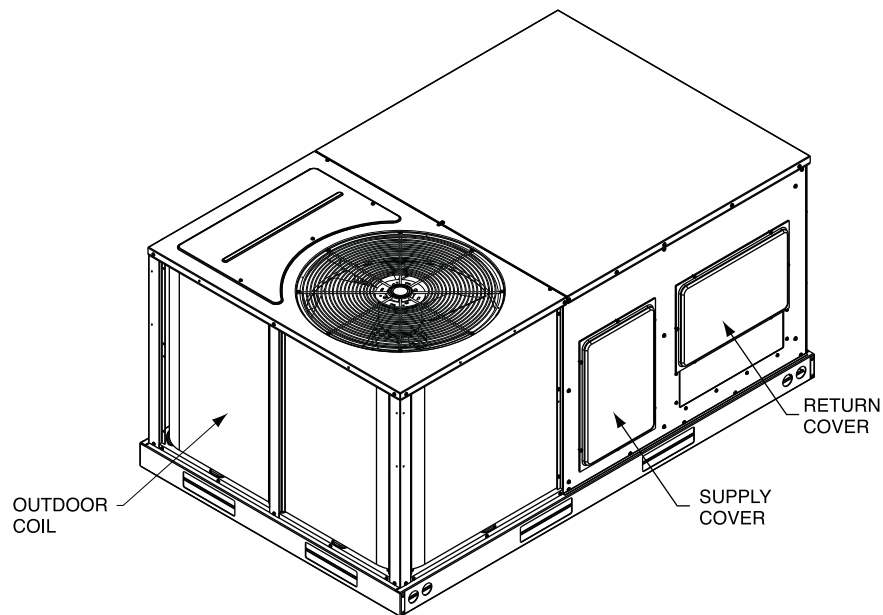


### BACK VIEW



[ ] Designates Metric Conversions

## 3 TO 5 TON [10.6 TO 17.6 kW] MODELS



## WEIGHTS

| Accessory                                          | Shipping    | Operating |
|----------------------------------------------------|-------------|-----------|
|                                                    | lbs [kg]    | lbs [kg]  |
| Economizer with Single Enthalpy                    | 71 [31.75]  | 70 [32]   |
| Economizer with Single Enthalpy and Smoke Detector | 74 [33.50]  | 73 [33]   |
| Power Exhaust                                      | 70 [32.00]  | 67 [30]   |
| Fresh Air Damper (Manual)                          | 11 [5.00]   | 9 [4]     |
| Fresh Air Damper (Motorized)                       | 13 [6.00]   | 11 [5]    |
| Roof Curb 14"                                      | 92 [42.00]  | 88 [40]   |
| Roof Curb 24"                                      | 108 [49.00] | 104 [47]  |
| Concentric Diffuser 18" Flush                      | 37 [17.00]  | 26 [12]   |
| Concentric Diffuser 20" Flush                      | 54 [24.00]  | 42 [19]   |
| Side Discharge Concentric Diffuser RXRN-FA60       | 35 [16.00]  | 20 [9]    |
| Side Discharge Concentric Diffuser RXRN-FA65       | 55 [25.00]  | 40 [18]   |

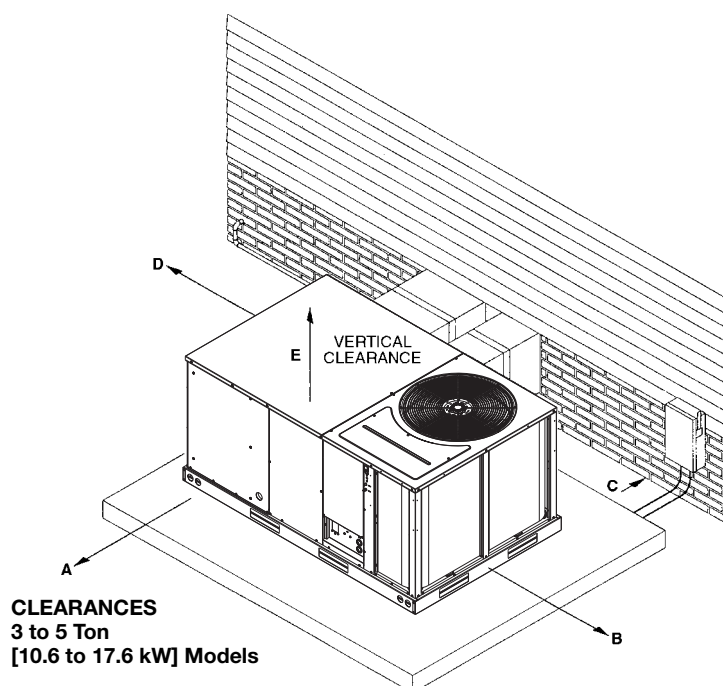
## CLEARANCES

### (3 to 5 Ton [10.6 to 17.6 kW] Models)

The following minimum clearances are recommended for proper unit performance and serviceability.

| Recommended Clearance in. [mm] | Location           |
|--------------------------------|--------------------|
| 48 [1219]                      | A - Front          |
| 18 [457]                       | B - Condenser Coil |
| *12 [305]                      | C - Duct Side      |
| 36 [914]                       | D - Evaporator End |
| 60 [1524]                      | E - Above          |
| *57" [1448 mm] With Economizer |                    |

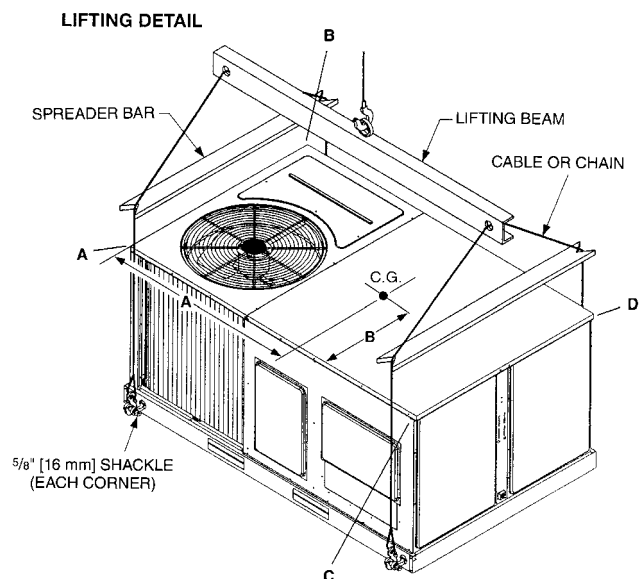
**NOTE:** Supply duct may be installed with "0" inch clearance to combustible materials, provided 1" [25.4 mm] minimum. Fiberglass insulation is applied either inside or on the outside of the duct.



## CENTER OF GRAVITY (C.G.)

| Capacity Tons [kW] | A in. [mm]                           | B in. [mm]                           |
|--------------------|--------------------------------------|--------------------------------------|
| 3-5 [10.6-17.6]    | 38 <sup>1</sup> / <sub>4</sub> [972] | 25 <sup>3</sup> / <sub>4</sub> [654] |

| Capacity Tons [kW] | Corner Weights by Percentage |     |     |     |
|--------------------|------------------------------|-----|-----|-----|
|                    | A                            | B   | C   | D   |
| 3-5 [10.6-17.6]    | 22%                          | 27% | 23% | 28% |



[ ] Designates Metric Conversions

## ACCESSORY EQUIPMENT

| Accessory Description                                                     | Model Application<br>3 to 5 Ton<br>[10.6 to 17.6 kW] | Accessory Model No.<br>3 to 5 Ton<br>[10.6 to 17.6 kW]                                                   | Factory Installed<br>3 to 5 Ton<br>[10.6 to 17.6 kW] |
|---------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Thermostats                                                               | RLPN-C/RLQN-C                                        | See Thermostat Specification Sheet (T11-001)                                                             | No                                                   |
| Electric Heater Kits                                                      | RLPN-C/RLQN-C                                        | RXJJ-A06 (C,D)<br>RXJJ-A10 (C,D)<br>RXJJ-A12 (C,D)<br>RXJJ-A15 (C,D)<br>RXJJ-A20 (C,D)<br>RXJJ-A24 (C,D) | See Heater Kit Electric Table                        |
| Roofcurb 14"                                                              | RLPN-C/RLQN-C                                        | RXKG-CAD14                                                                                               | No                                                   |
| Roofcurb 24"                                                              | RLPN-C/RLQN-C                                        | RXKG-CAD24                                                                                               | No                                                   |
| Roofcurb Adapters                                                         | RLPN-C/RLQN-C                                        | RXR-BCDB21<br>RXRB-BCDB22<br>RXRB-BCDB23                                                                 | No                                                   |
| DDC Economizer with Single Enthalpy and Barometric Relief ①               | RLPN-C/RLQN-C                                        | AXRD-01RKCCM3                                                                                            | Yes                                                  |
| DDC Economizer with Single Enthalpy, Smoke Detector and Barometric Relief | RLPN-C/RLQN-C                                        | AXRD-01RKCDM3                                                                                            | Yes                                                  |
| Non-powered Convenience Outlet                                            | RLPN-C/RLQN-C                                        | RXR-AN02                                                                                                 | Yes                                                  |
| Dual Enthalpy Kit                                                         | RLPN-C/RLQN-C                                        | RXR-AV03                                                                                                 | No                                                   |
| CO <sub>2</sub> Sensor                                                    | RLPN-C/RLQN-C                                        | RXR-AR02                                                                                                 | No                                                   |
| Power Exhaust                                                             | RLPN-C/RLQN-C                                        | AXRX-BGF04 (C, D)                                                                                        | No                                                   |
| Fresh Air Damper Manual                                                   | RLPN-C/RLQN-C                                        | AXRF-FBA1                                                                                                | No                                                   |
| Fresh Air Damper Motorized                                                | RLPN-C/RLQN-C                                        | AXRF-FBB1                                                                                                | No                                                   |
| Rectangular to Round 18" Duct Adapters for Concentric Diffuser            | RLPN-C/RLQN-C                                        | RXMC-CB03                                                                                                | No                                                   |
| Rectangular to Round 20" Duct Adapters for Concentric Diffuser            | RLPN-C/RLQN-C                                        | RXMC-CB04                                                                                                | No                                                   |
| Concentric Diffuser 18" Step                                              | RLPN-C/RLQN-C                                        | RXRN-FA60,<br>RXRN-FA65                                                                                  | No                                                   |
| Concentric Diffuser 18" Flush                                             | RLPN-C/RLQN-C                                        | RXRN-FA70,<br>RXRN-FA75                                                                                  | No                                                   |
| Rectangular to Round 16" Side                                             | RLPN-C/RLQN-C                                        | RXMC-BB01                                                                                                | No                                                   |
| Louver Kit (2 Sides) 3-Ton                                                | RLPN-C/RLQN-C                                        | AXRX-AAD02B                                                                                              | Yes                                                  |
| Louver Kit (3 Sides) 4 & 5-Ton                                            | RLPN-C/RLQN-C                                        | AXRX-AAD01B                                                                                              | Yes                                                  |
| Low Ambient Control to 0°F [-18°C]                                        | RLPN-C/RLQN-C                                        | RXRZ-A04                                                                                                 | Yes                                                  |
| Unwired Convenience Outlet                                                | RLPN-C/RLQN-C                                        | RXR-AN02                                                                                                 | Yes                                                  |
| Comfort Alert (1 per compressor)                                          | RLPN-C/RLQN-C                                        | RXR-AZ01                                                                                                 | Yes                                                  |
| BACnet Communication Card                                                 | RLPN-C/RLQN-C                                        | RXR-AY01                                                                                                 | No                                                   |
| LonWorks Communication Card                                               | RLPN-C/RLQN-C                                        | RXR-AY02                                                                                                 | No                                                   |
| 1 Freeze Stat                                                             | RLPN-C/RLQN-C                                        | RXR-AM04                                                                                                 | Yes                                                  |
| Room Humidity Sensor                                                      | RLPN-C Reheat Option                                 | RHC-ZNS4                                                                                                 | No                                                   |
| Room Temperature & Relative Humidity Sensor                               | RLPN-C Reheat Option                                 | RHC-ZNS5                                                                                                 | No                                                   |

\*Voltage  
C = 208-230 VAC-3PH-60HZ D = 460 VAC-3PH-60HZ

NOTES: ① Economizer is designed for downflow or horizontal applications.

[ ] Designates Metric Conversions

THERMOSTATS



**200-Series \***  
Programmable



**300-Series \***  
Deluxe  
Programmable

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

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

*\* 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 with TIMED OVERRIDE BUTTON**

**RHC-ZNS1**

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 with TIMED OVERRIDE BUTTON and STATUS INDICATOR**

**RHC-ZNS2**

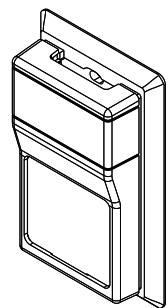
10k $\Omega$  room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time. Status Indicator Light transmits ALARM flash code to occupied space.



### **ROOM TEMPERATURE SENSOR with SETPOINT ADJUSTMENT and TIMED OVERRIDE BUTTON**

**RHC-ZNS3**

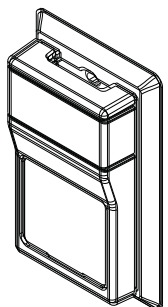
10k $\Omega$  room temperature sensor with setpoint adjustment transmits room temperature to DDC system along with desired occupied room temperature setpoint. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



### **ROOM HUMIDITY SENSOR**

**RHC-ZNS4**

Transmits room relative humidity to DDC System.



### **ROOM TEMPERATURE AND RELATIVE HUMIDITY SENSOR**

**RHC-ZNS5**

Transmits room temperature and relative humidity to DDC System.

## COMMUNICATION CARDS

### Field Installed



#### **BACnet® COMMUNICATION CARD    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.



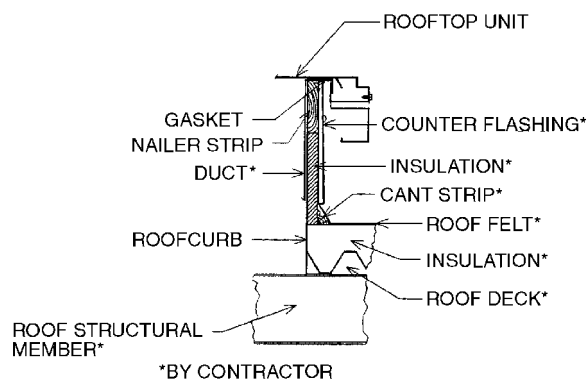
#### **LonWorks® COMMUNICATION CARD    RXRX-AY02**

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.

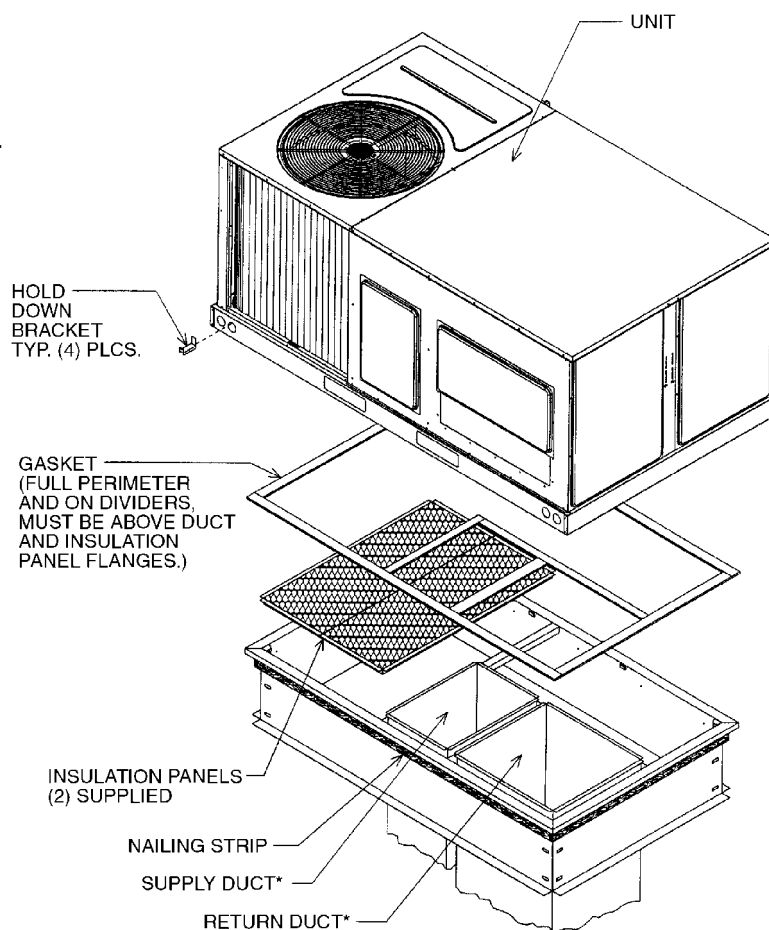
## ROOFCURBS (Full Perimeter)

- Rheem's new roofcurb design can be utilized on 3 through 5 ton [10.6-17.6 kW] 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.
- 2" [51 mm] x 4" [102 mm] Nailer provided.
- Insulating panels provided.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

| Roofcurb Model | Height of Curb |
|----------------|----------------|
| RXKG-CAD14     | 14" [356 mm]   |
| RXKG-CAD24     | 24" [610 mm]   |



## TYPICAL INSTALLATION



## ROOFCURB FOR RLPN 3-5 TON [10.6-17.6 kW] MODELS RLQN 3-5 TON [10.6-17.6 kW] MODELS

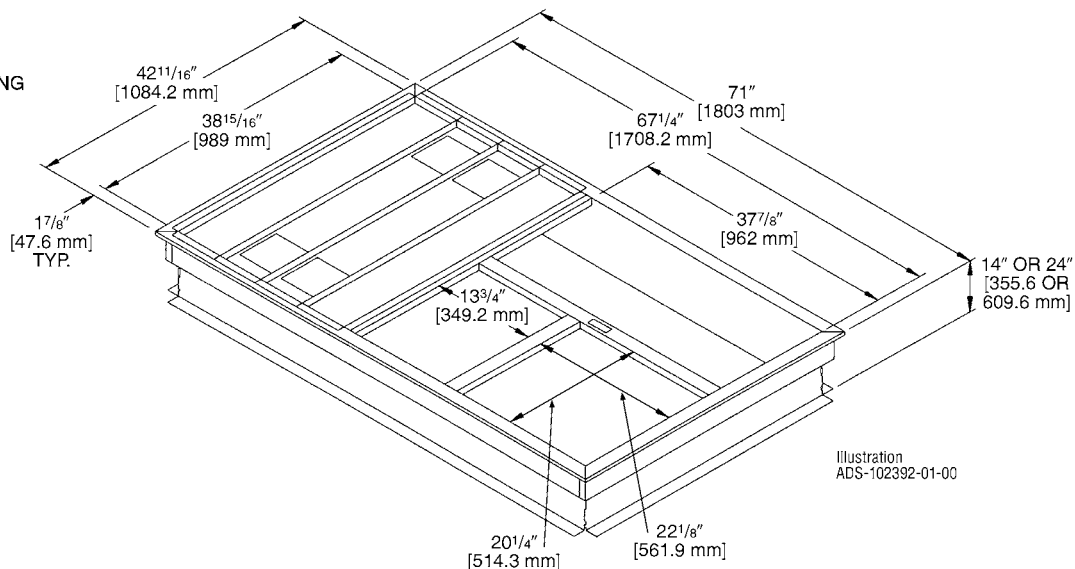
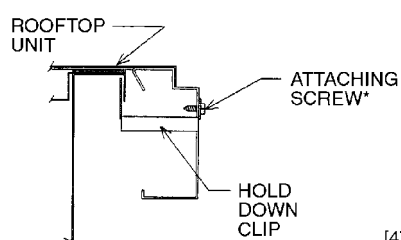


Illustration  
ADS-102392-01-00

[ ] Designates Metric Conversions

## ROOFCURB ADAPTERS

### Old Models

#### MEDIUM CABINET (3 TON [11 kW])

(-)SNC, (-)SND, (-)SNE  
 (-)RGE, (-)RGF, (-)RGG  
 (-)PNC, (-)PND

#### LARGE CABINET

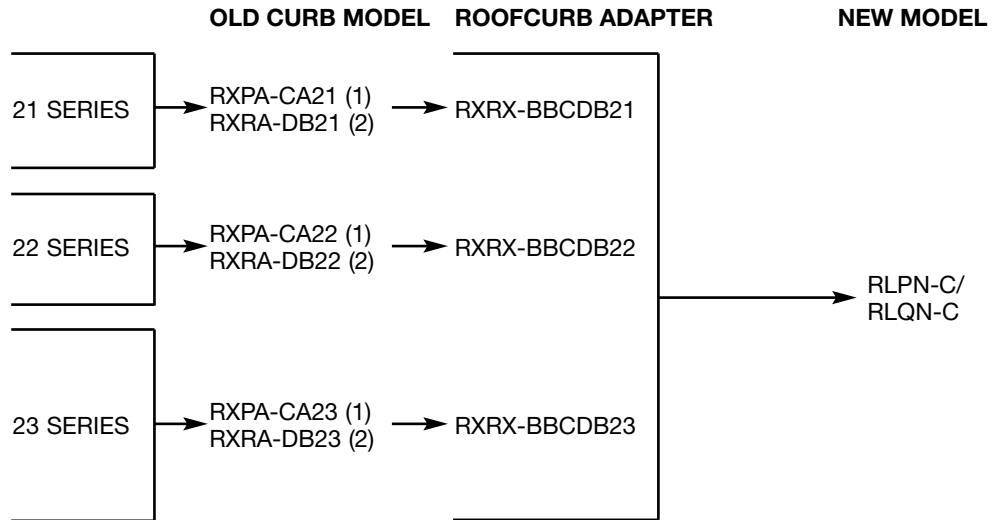
##### (3-3.5 TON [11-12 kW])

(-)RGE, (-)RGF, (-)RGG,  
 (-)RGH (3 TON [11 kW])

#### EXTRA LARGE CABINET

##### (3.5-5 TON [12-18 kW])

(-)SNC, (-)SND, (-)SNE  
 (-)RGE, (-)RGF,  
 (-)RGG (4-5 TON [14-18 kW])  
 (-)PNC, (-)PND, (-)RGH  
 (3.5, 4 TON [12-14 kW])

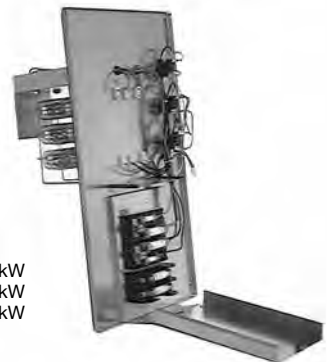
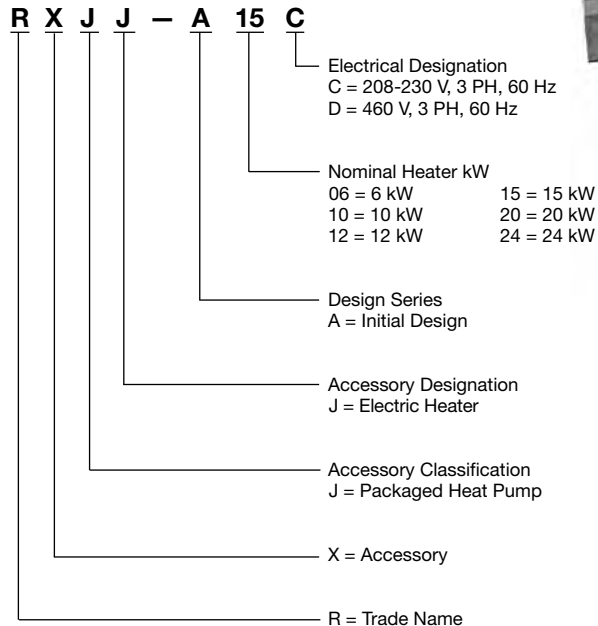


## FIELD INSTALLED RESISTANCE HEATER KITS

Electric Heater Kits are designed for field installation using either single-point power wiring or dual circuit wiring. Low voltage plugs are provided to allow for quick connection to the unit. Removing a block-off panel on the unit allows the heater elements to be inserted into the supply air down stream from the indoor coil and supply air blower.

[ ] Designates Metric Conversions

### Model Number Identifier:



## Roofcurb Adapters

### Carrier to Rheem Roofcurb Adapter - RXXR-EACC35\*

Replaces Carrier/Bryant/ICP Models:

| Carrier Models |                |                |
|----------------|----------------|----------------|
| Packaged G/E   | Packaged AC    | Packaged HP    |
| 48DJ*004 - 007 | 50DJ004 - 007  | 50QJ004-006    |
| 48GJ*006       | 50GJ006        |                |
| 48HE*003 - 006 | 50HE003 - 006  | 50HEQ003 - 006 |
| 48HJ*004 - 007 | 50HJ004 - 007  | 50HJQ004 - 007 |
| 48HM*007       | 50HM007        |                |
| 48LJ*004 - 007 | 50LJ004 - 007  | 50LJQ004 - 006 |
| 48TC*004 - 007 | 50TC004 - 007  | 50TCQ004 - 007 |
| 48TF-004 - 007 | 50TFF004 - 007 | 50TFQ004 - 007 |
| 48TJ*004 - 007 | 50TJ004 - 007  | 50TJQ004 - 007 |
| 48TM*004 - 007 | 50TM004 - 007  |                |

| Bryant Models   |                 |                 |
|-----------------|-----------------|-----------------|
| Packaged G/E    | Packaged AC     | Packaged HP     |
| 581A*V036 - 072 | 551A*X036 - 072 | 549B*X036 - 072 |
| 581B*V036 - 072 | 551B*X036 - 072 |                 |
| 580C*V036 - 072 | 558C*X036 - 072 | 548C*X036 - 060 |
| 580D*V036 - 072 | 558D*X036 - 072 | 548D*X036 - 072 |
| 580F*V036 - 072 | 558F*X036 - 072 | 548F*X036 - 072 |
| 580J*04 - 07    | 558J*04 - 07    | 548J*04 - 07    |

| ICP Models   |              |              |
|--------------|--------------|--------------|
| Packaged G/E | Packaged AC  | Packaged HP  |
| PGE036 - 072 | PAE036 - 072 | PHE072       |
| PGH036 - 072 | PAH036 - 072 | PHH036 - 072 |
| PGS072       | PAS072       | PHS072       |
| RGS036 - 072 | RAS036 - 072 | RHS036 - 072 |

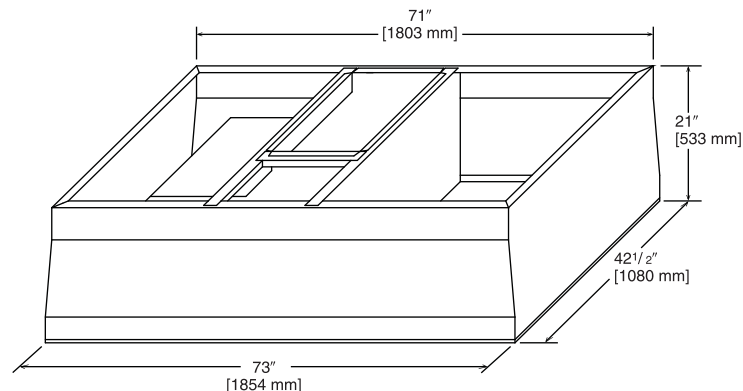
\*RXXR-EACC35 Carrier to Rheem roofcurb adapter requires high static "M" drive for all tonnages.

### Trane to Rheem Roofcurb Adapter - RXXR-EACT35

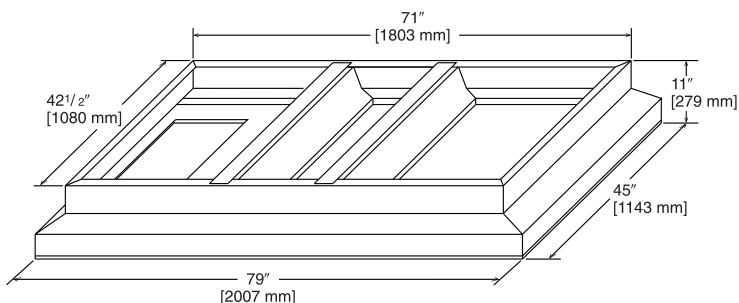
Replaces Trane Models:

| Trane Models            |                         |                         |
|-------------------------|-------------------------|-------------------------|
| Packaged G/E            | Packaged AC             | Packaged HP             |
| YCD-036,037,048,049,060 | TCD-036,037,048,049,060 | WCD-036,037,048,049,060 |

| Model #     | CFM  | Static Pressure |
|-------------|------|-----------------|
| RXXR-EACT35 | 1000 | .08             |
|             | 1200 | .10             |
|             | 1400 | .15             |
|             | 1600 | .18             |
|             | 1800 | .21             |
|             | 2000 | .25             |
|             | 2200 | .30             |



| Model #     | CFM  | Static Pressure |
|-------------|------|-----------------|
| RXXR-EACC35 | 1000 | .20             |
|             | 1200 | .25             |
|             | 1400 | .30             |
|             | 1600 | .35             |
|             | 1800 | .40             |
|             | 2000 | .45             |
|             | 2200 | .50             |



[ ] Designates Metric Conversions

## ECONOMIZERS

**AXRD-01RKCCM3—3-5 Ton [10.6-17.6 kW] Models**

**DDC Economizer w/Single Enthalpy and Barometric Relief**

**AXRD-01RKCDM3—3-5 Ton [10.6-17.6 kW] Models**

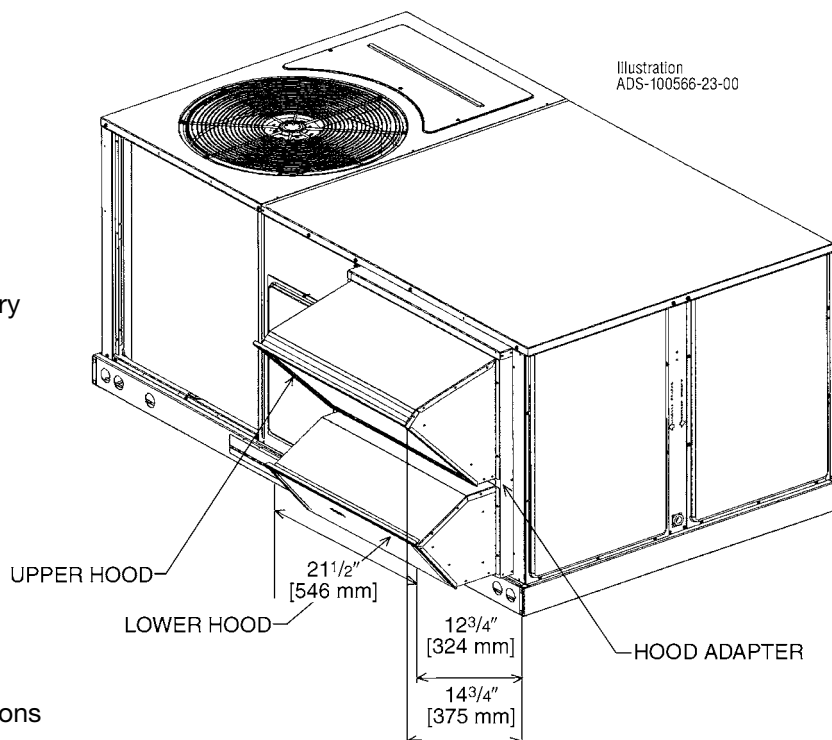
**DDC Economizer w/Single Enthalpy,  
Barometric Relief and Smoke Detector**

**RXXR-AV03—3-5 Ton [10.6-17.6 kW] Models**

**Dual Enthalpy Kit  
Optional CO<sub>2</sub> Sensor**

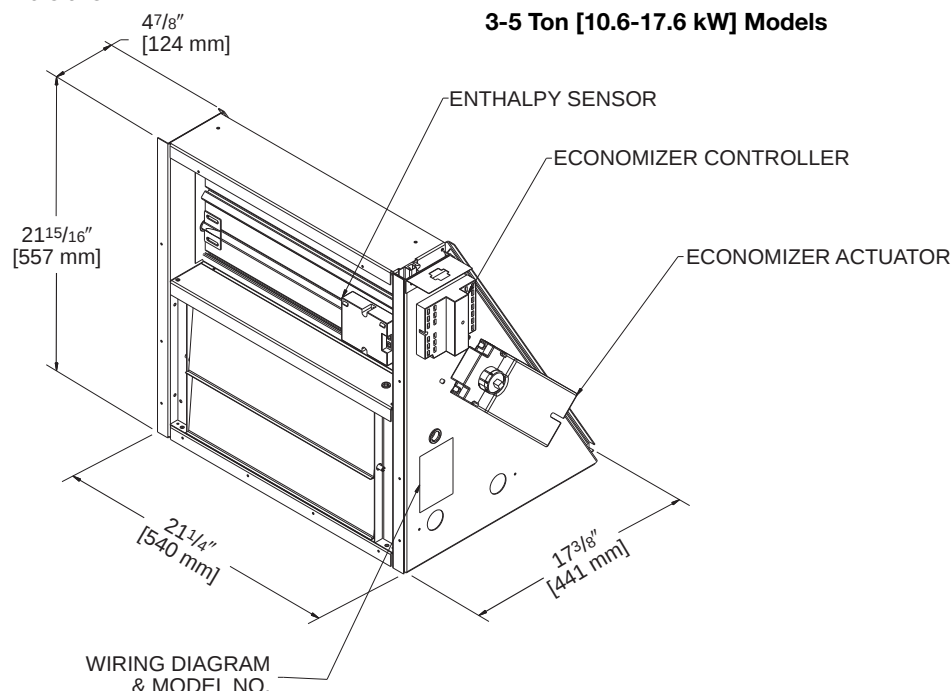
**RXXR-AR02—3-5 Ton [10.6-17.6 kW] Models**

- Features **Honeywell** Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Extra Low Leakage Dampers California Title 24 Compliant
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 12-pin Electrical Connections
- Pre-configuring—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy upgrade kit
- CO<sub>2</sub> Input Sensor Available (field installed)
- Economizer slips in complete for downflow or horizontal duct applications
- Field assembled hood ships with Economizer
- Optional Remote minimum position (Honeywell #S963B1128) 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



[ ] Designates Metric Conversions

### 3-5 Ton [10.6-17.6 kW] Models

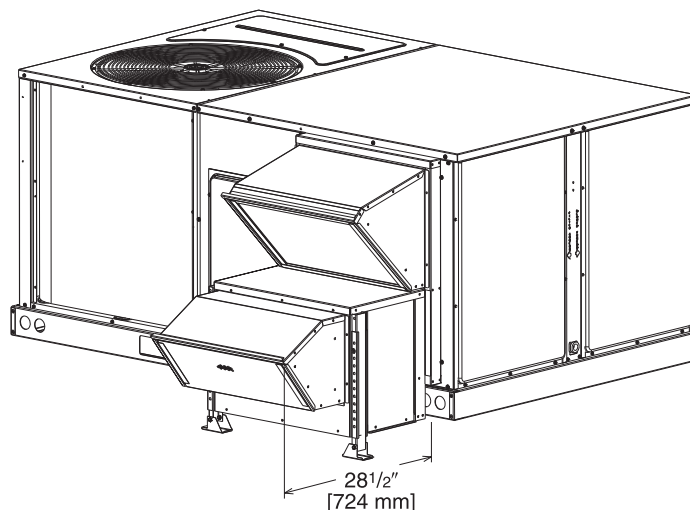


## INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

**AXRX-BGF04C – 3-5 Ton [10.6-17.6 kW] Models & 3-5 Ton [10.6-17.6 kW] Models  
208-230V, 1 PH and 3 PH, 60 Hz**

**AXRX-BGF04D – 3-5 Ton [10.6-17.6 kW] Models & 3-5 Ton [10.6-17.6 kW] Models  
460V, 3 PH, 60 Hz**

- For **Honeywell** Economizer
- Downflow or horizontal applications
- Requires separate 208-230 Volt – 1 PH power supply with disconnect or requires separate 460V – 3 PH power supply with disconnect
- Adjustable switch on economizer, factory preset to energize power exhaust at 95% outside air position
- Polarized plug connects power exhaust relay to economizer



## POWER EXHAUST KIT FOR AXRD-01RKCCM3, AXRD-01RKCDM3 ECONOMIZERS

| Model No.   | No. of Fans | Volts   | Phase | Watts (ea.) | High Speed |      | FLA (ea.) | LRA (ea.) |
|-------------|-------------|---------|-------|-------------|------------|------|-----------|-----------|
|             |             |         |       |             | CFM ①      | RPM  |           |           |
| AXRX-BGF04C | 1           | 208/230 | 1     | 1000        | 2350       | 1725 | 4.8       | 25.6      |
| AXRX-BGF04D | 1           | 460     | 1     | 800         | 2350       | 1625 | 1.6       | 14.3      |

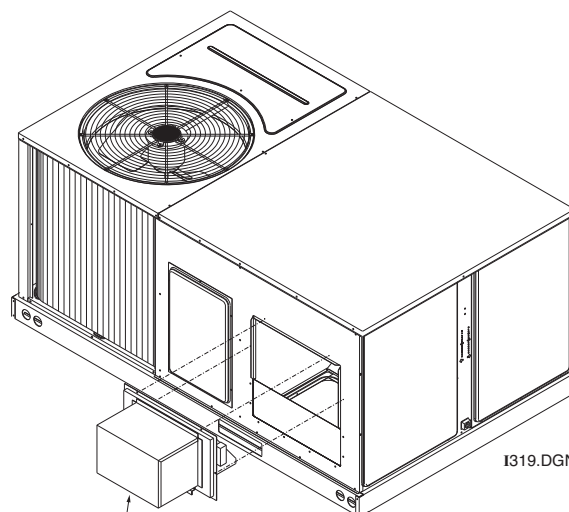
AXRX-BGF04C – 3-5 Ton [10.6-17.6 kW] Models  
AXRX-BGF04D – 3-5 Ton [10.6-17.6 kW] Models

## FRESH AIR DAMPER

**3-5 Ton [10.6-17.6 kW] Models**

AXRF-FBA1 (Manual)

AXRF-FBB1 (Motorized)



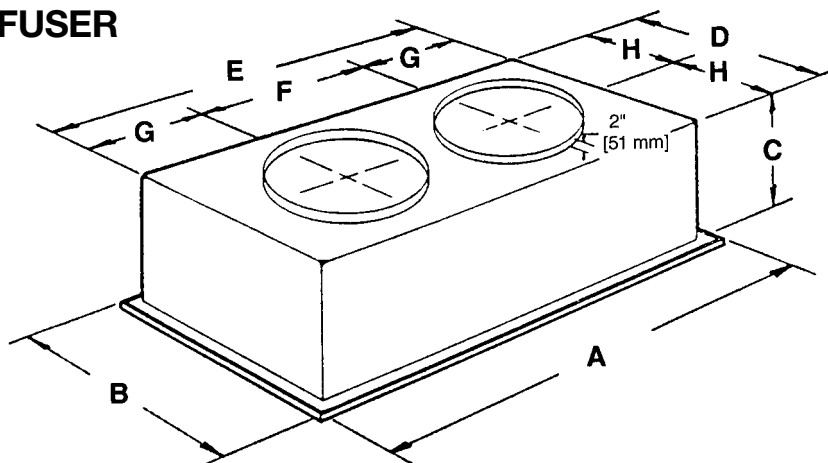
[ ] Designates Metric Conversions

FRESH AIR DAMPER

## FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA70 (3 to 5 Ton [10.6 to 17.6 kW] Models)

For Use With Duct Adapter (RXMC)



### DIMENSIONAL DATA

| Model No. | A                                             | B                                            | C                                            | D               | E                | F                                            | G                                            | H                                            | Duct Size |
|-----------|-----------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------|------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|-----------|
| RXRN-FA70 | 47 <sup>5</sup> / <sub>8</sub> "<br>[1210 mm] | 23 <sup>5</sup> / <sub>8</sub> "<br>[600 mm] | 13 <sup>1</sup> / <sub>2</sub> "<br>[343 mm] | 21"<br>[533 mm] | 45"<br>[1143 mm] | 22 <sup>1</sup> / <sub>2</sub> "<br>[572 mm] | 11 <sup>1</sup> / <sub>4</sub> "<br>[286 mm] | 10 <sup>1</sup> / <sub>2</sub> "<br>[267 mm] | 18RD      |
| RXRN-FA75 | 47 <sup>5</sup> / <sub>8</sub> "<br>[1210 mm] | 29 <sup>5</sup> / <sub>8</sub> "<br>[752 mm] | 16 <sup>5</sup> / <sub>8</sub> "<br>[442 mm] | 27"<br>[666 mm] | 45"<br>[1143 mm] | 22 <sup>1</sup> / <sub>2</sub> "<br>[572 mm] | 11 <sup>1</sup> / <sub>4</sub> "<br>[286 mm] | 13 <sup>1</sup> / <sub>2</sub> "<br>[343 mm] | 20RD      |

### ENGINEERING DATA

| Model No. | CFM [L/s]   | Static Pressure | Throw Feet | Neck Vel. | Jet Vel. | Noise Level |
|-----------|-------------|-----------------|------------|-----------|----------|-------------|
| RXRN-FA70 | 1000 [472]  | .14             | 15-20      | 391       | 694      | 20          |
|           | 1200 [566]  | .17             | 16-22      | 469       | 833      | 25          |
|           | 1400 [661]  | .20             | 17-24      | 547       | 972      | 30          |
|           | 1600 [755]  | .24             | 18-25      | 625       | 1111     | 30          |
|           | 1800 [850]  | .30             | 20-28      | 703       | 1250     | 35          |
|           | 2000 [944]  | .36             | 21-29      | 781       | 1389     | 40          |
|           | 2200 [1038] | .40             | 22-30      | 859       | 1528     | 40          |
| RXRN-FA75 | 2600 [1227] | .17             | 19-24      | 663       | 1294     | 30          |
|           | 2800 [1321] | .20             | 20-28      | 714       | 1393     | 35          |
|           | 3000 [1416] | .25             | 21-29      | 765       | 1492     | 35          |
|           | 3200 [1510] | .31             | 22-29      | 616       | 1592     | 40          |
|           | 3400 [1605] | .37             | 22-30      | 667       | 1692     | 40          |

[ ] Designates Metric Conversions

## DUCT ADAPTERS (3 TO 5 TON [10.6 TO 17.6 kW] MODELS)

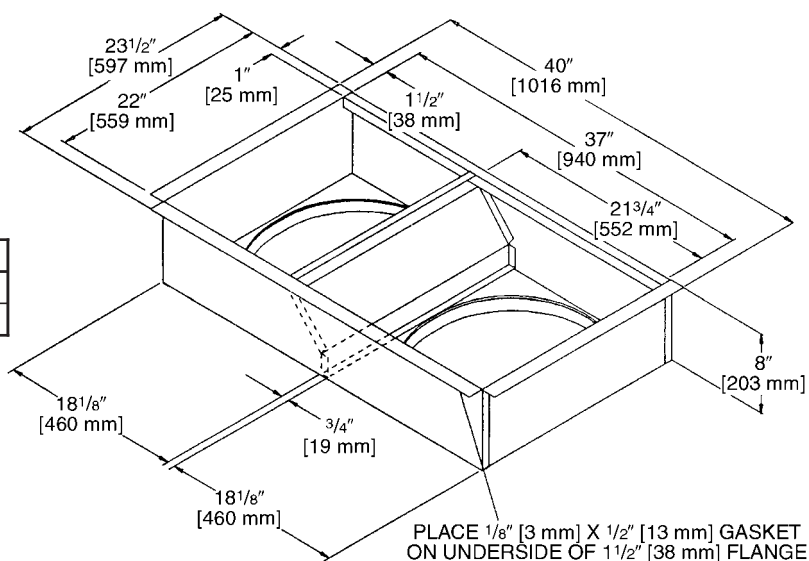
### Rectangular to Round Transitions (Downflow)

Two sizes available (18" [457 mm] and 20" [508 mm] round) fit all units. Drops into and secures to RXKG- Series Roofcurbs.

For use with Concentric Diffusers.

| Accessory Model No. | Model Application Tons [kW] | Size in. [mm]  |
|---------------------|-----------------------------|----------------|
| RXMC-CB03           | 3-5 [10.6-17.6]             | 18 [457] Round |
| RXMC-CB04           | 3-5 [10.6-17.6]             | 20 [508] Round |

[ ] Designates Metric Conversions

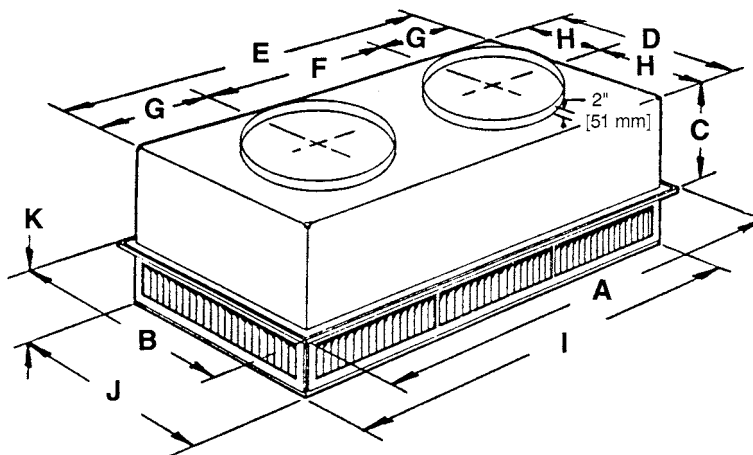


### SIDE DISCHARGE CONCENTRIC DIFFUSER

RXRN-FA60 (3 to 5 Ton [10.6 to 17.6 kW] Models)

RXRN-FA65 (3 to 7.5 Ton [10.6 to 26.4 kW] Models)

For Use With Duct Adapter (RXMC)



### DIMENSIONAL DATA

| Model No. | A                 | B                | C                | D                | E                 | F                | G                | H                | I                 | J                | K               | Duct Size |
|-----------|-------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|------------------|-----------------|-----------|
| RXRN-FA60 | 47 5/8" [1210 mm] | 23 5/8" [600 mm] | 11 3/8" [289 mm] | 21 1/2" [546 mm] | 45 1/2" [1156 mm] | 22 1/2" [572 mm] | 11 1/2" [292 mm] | 10 3/4" [273 mm] | 45 1/2" [1156 mm] | 21 1/2" [546 mm] | 7 1/8" [181 mm] | 18RD      |
| RXRN-FA65 | 47 5/8" [1210 mm] | 29 5/8" [752 mm] | 14 3/8" [365 mm] | 27 1/2" [699 mm] | 45 1/2" [1156 mm] | 22 1/2" [572 mm] | 11 1/2" [292 mm] | 13 3/4" [349 mm] | 45 1/2" [1156 mm] | 27 1/2" [699 mm] | 8 1/8" [206 mm] | 20RD      |

### ENGINEERING DATA

| Model No. | CFM [L/s]   | Static Pressure | Throw Feet | Neck Vel. | Jet Vel. | Noise Level |
|-----------|-------------|-----------------|------------|-----------|----------|-------------|
| RXRN-FA60 | 1000 [472]  | .14             | 10-17      | 351       | 351      | 20          |
|           | 1200 [566]  | .17             | 11-18      | 421       | 421      | 20          |
|           | 1400 [661]  | .20             | 12-19      | 491       | 491      | 20          |
|           | 1600 [755]  | .24             | 12-20      | 561       | 561      | 20          |
|           | 1800 [850]  | .30             | 13-21      | 632       | 632      | 20          |
|           | 2000 [944]  | .36             | 14-23      | 702       | 702      | 20          |
|           | 2200 [1038] | .40             | 16-25      | 772       | 772      | 20          |
| RXRN-FA65 | 2600 [1227] | .17             | 24-29      | 669       | 669      | 20          |
|           | 2800 [1321] | .20             | 25-30      | 720       | 720      | 25          |
|           | 3000 [1416] | .25             | 27-33      | 772       | 772      | 25          |
|           | 3200 [1510] | .31             | 28-35      | 623       | 623      | 25          |
|           | 3400 [1605] | .37             | 30-37      | 874       | 874      | 30          |

**GUIDE SPECIFICATIONS – RLPN/RLQN-C036 thru C060**

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](http://www.csinet.org).

**ELECTRIC HEAT PACKAGED ROOFTOP****HVAC Guide Specifications**

Size Range: 3 to 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 1 stage of heating.
  - b. must include capability for occupancy scheduling.
  - c. energize both “W” and “G” when calling for heat.

**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 CO<sub>2</sub> sensor in the conditioned space, and be Demand Control Ventilation (DCV) ready.
6. Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, heat stage 3/ 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 consume 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, heat stage 3/ 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 replaceable fuse on the 24-v transformer side. Transformer size is 40VA.
2. Shall utilize color-coded wiring.
3. Unit shall provide a minimum of one 10-pin screw terminal connection board for connection of control wiring.
4. 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.

**23 09 33.13.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. Automatic reset, motor thermal overload protector.
5. Freeze protection sensor, evaporator coil.

**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**

1. Shall consist of factory-installed, low velocity, throwaway 1-in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be accessible through an access panel as described in the unit cabinet section of the specification (23 81 19.13.H).
5. Filter rack will also accept 2-in thick fiberglass filters of commercially available sizes by removal of a tab.

**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 hermetic scroll compressor for cooling duty and electric resistance heat 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 safe, 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 90.1-2010 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 210/240.
3. Unit shall be designed to conform to ASHRAE 15-2010.
4. 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.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit casing shall be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 5000-hour salt spray.

8. Unit shall be designed in accordance with ISO 9001:2008, and shall be manufactured in a facility registered by ISO 9001:2008.
9. Roof curb shall be designed to conform to NRCA Standards.
10. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
11. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
12. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
- 23 81 19.13.C. Delivery, Storage, and Handling
  1. Unit shall be stored and handled per manufacturer's recommendations.
  2. Lifted by crane requires either shipping top panel or spreader bars.
  3. Unit shall only be stored or positioned in the upright position.
- 23 81 19.13.E. Project Conditions
  1. As specified in the contract.
- 23 81 19.13.F. Operating Characteristics
  1. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 at  $\pm 10\%$  voltage.
  2. Compressor with standard controls shall be capable of operation down to 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 Pre-paint 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 / 16°C): 60, Hardness: H-2H Pencil hardness.
  3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 3/4-in. thick, 1 lb. density, flexible fiberglass insulation, aluminum foil-face coated 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 condensate drain pan made of a non-corrosive material. Unit must be installed at a slight angle to allow for complete drainage.
    - b. Shall comply with ASHRAE Standard 62.
    - c. Shall use a 3/4" x 14 NPT drain connection through the side of the drain pan. Connection shall be made per manufacturer's recommendations..
  7. Electrical Connections
    - a. All unit power wiring shall enter unit cabinet at a single, factory-prepared, knockout location.
    - b. Thru-the-base capability
      - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
      - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
  8. Component access panels (standard)
    - a. Cabinet panels shall be easily removable for servicing.
  9. Component access panels (optional)
    - a. Panels covering control box, indoor blower assembly, indoor blower motor and air filters shall have metal hinges and quarter (1/4) turn latches factory installed only.
  - 23 81 19.13.J. Coils
    1. Aluminum MicroChannel evaporator and condenser coils on all models.
      - a. Shall have aluminum lanced fins thermally bonded to aluminum multi-port flat tube design (microchannel) tubes. Coils shall be furnace brazed and contain epoxy lined shrink wrap on all aluminum to copper connections.
      - b. Shall be leak tested using helium mass spectrometry. The leak rate shall not exceed  $6.5 \times 10^{-5}$  sccs of 100% helium at 200 psig, and qualified to UL 1995 burst test at 1950 psig.
      - c. Evaporator coil includes internal distributor plate to prevent mal-distribution of two-phase refrigerant.

## 23 81 19.13.K. Refrigerant Components

1. Refrigerant circuit shall include the following control, safety, and maintenance features:
  - a. Thermal Expansion Valves (TXV).
  - b. Refrigerant filter drier.
  - c. Service gauge connections on suction and liquid lines.
  - d. External pressure gauge ports access shall be located in front exterior of cabinet.
2. Compressors
  - a. Unit shall use one fully hermetic, scroll compressor.
  - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
  - c. Compressors shall be internally protected from high discharge temperature conditions.
  - d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
  - e. Compressor shall be factory mounted on rubber grommets.
  - f. Compressor motors shall have internal line break thermal and current overload protection along with high pressure differential protection.
  - g. 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. Shall consist of factory-installed, low velocity, throw-away 1-in. thick fiberglass filters.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be standard, commercially available sizes.
5. Only one size filter per unit is allowed.
6. Filter rack will also accept 2-in thick fiberglass filters of commercially available sizes by removal of a tab.

## 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.
  - c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
2. Belt-driven Evaporator Fan:
  - a. Belt drive shall include an adjustable-pitch motor pulley.
  - b. Shall use sealed, permanently lubricated ball-bearing type.
  - c. Blower fan shall be double-inlet type with forward-curved blades.
  - d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.
3. High-Static Belt-driven Evaporator Fan Motor(s) and Drive(s):
  - a. High-static motor(s) and drive(s) shall be factory-installed to provide additional performance range.

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

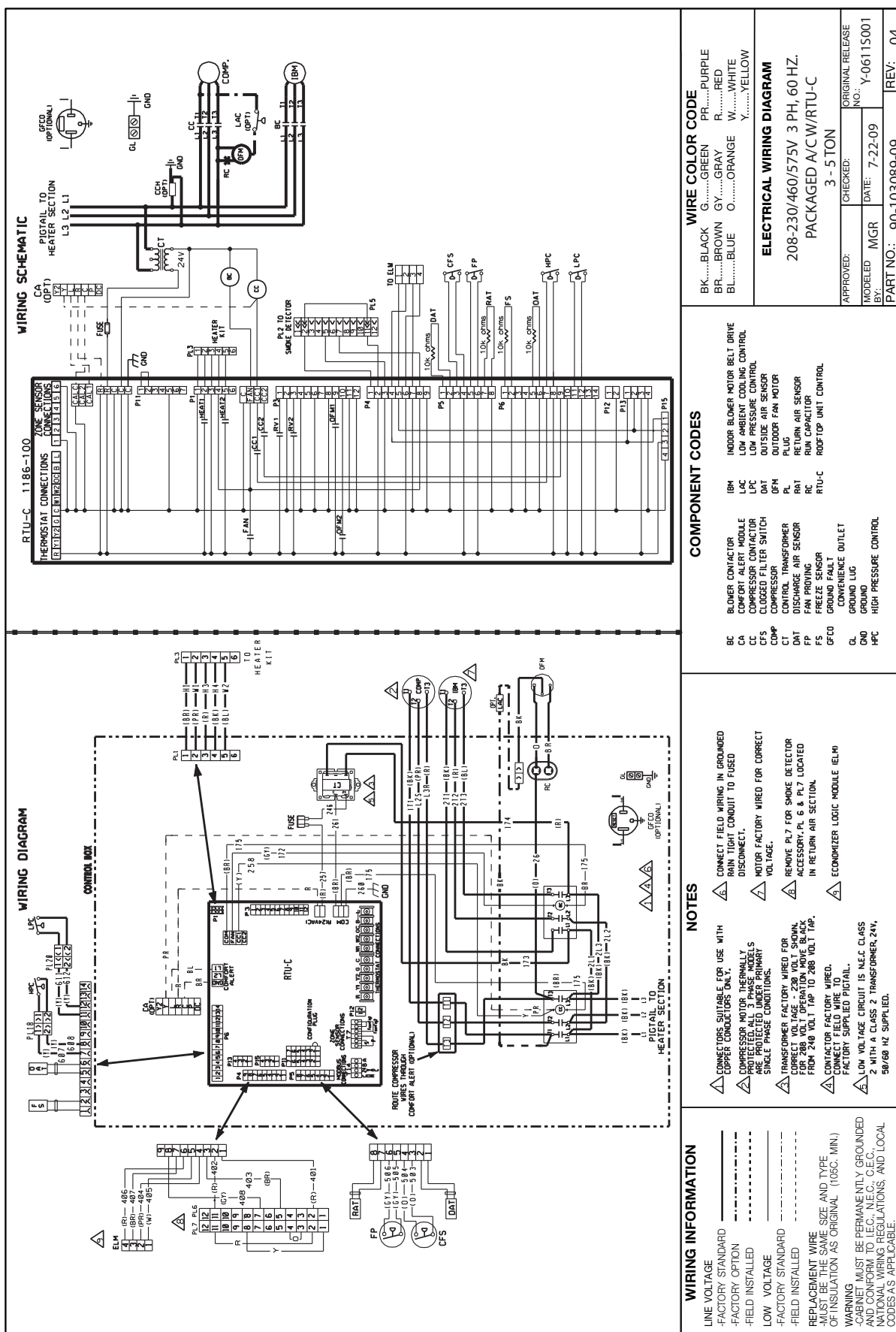
1. Condenser fan motors:
  - a. Shall be a totally enclosed motor.
  - b. Shall use permanently lubricated bearings.
  - c. Shall have inherent thermal overload protection with an automatic reset feature.
  - d. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.
2. Condenser Fans shall:
  - 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.

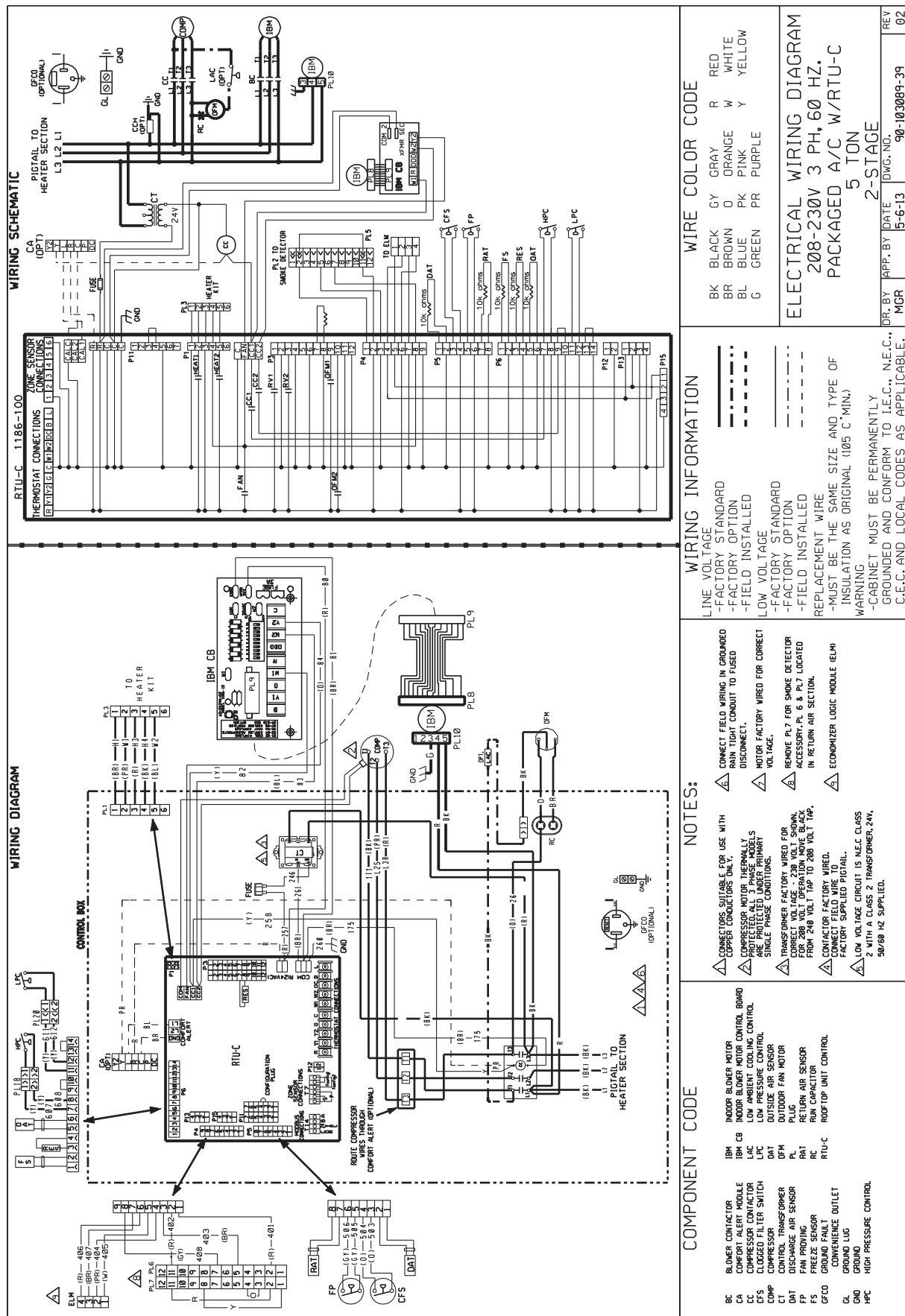
## 23 81 19.13.O. Special Features

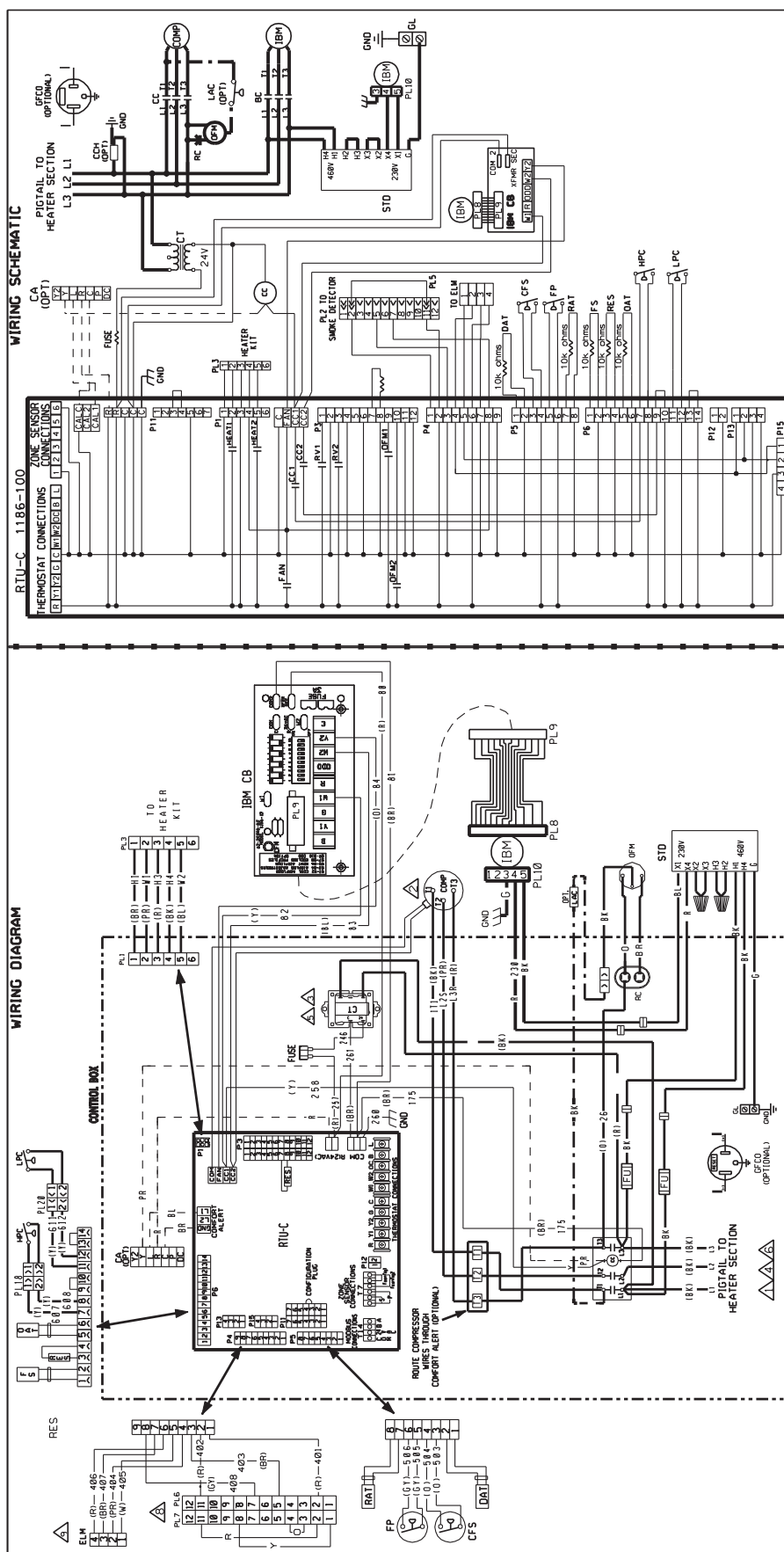
1. Integrated Economizers:
  - a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
  - b. Module designed for vertical or horizontal return configurations. Vertical return configuration shall be available as a factory installed option.
  - c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
  - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
  - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
  - f. Shall be capable of introducing up to 100% outdoor air.
  - g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air. The barometric relief damper shall include seals, hardware and hoods to relieve building pressure. Damper shall gravity close upon unit shut down.
  - 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 enthalpy set point 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.
- l. Economizer controller shall accept a 0-10Vdc CO<sub>2</sub> sensor input over a CO<sub>2</sub> range of 0-2000 ppm for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
- m. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- n. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
- o. Ultra Low Leak Dampers shall meet California Title 24 requirements.
- p. Economizer controller shall meet California Title 24 FDD (Fault Detection and Diagnostics) requirements.
- 2. Two-Position Damper
  - a. Damper shall be a Two-Position 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 damper and actuator motor.
  - d. Actuator shall be direct coupled to economizer 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. Thru-the-Base Connectors:
  - a. Kits shall provide connectors to permit electrical connections to be brought to the unit through the unit basepan.
- 7. 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 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.
- 8. Roof Curbs (Vertical):
  - a. Full perimeter roof curb with exhaust capability providing separate airstreams 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.
- 9. 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.
- 10. 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.
- 11. 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 set point shall have adjustment capability.
  - c. The sensor shall provide a 0-10Vdc output for a CO<sub>2</sub> input range of 0-2000 ppm.
- 12. 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:
  - i. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
  - ii. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
  - iii. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
  - iv. Capable of direct connection to two individual detector modules.
  - v. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
- 13. Non-Powered convenience outlet.
  - a. Outlet shall be powered from a separate 115-120v power source.
  - b. A transformer shall not be included.
  - c. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
  - d. Outlet shall include 15 amp GFI receptacle.
  - e. Outlet shall be accessible from outside the unit.
  - f. Outlet shall have a wet location, while in use cover.
- 14. 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.
- 15. Electric Heat:
  - a. Heating Section
    - i. 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.
    - ii. 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.







#### COMPONENT CODE

|       |                         |        |                                   |
|-------|-------------------------|--------|-----------------------------------|
| BC    | BLOWER CONTACTOR        | IBM    | INDOOR BLOWER MOTOR               |
| CA    | COMPRESSOR ALERT MODULE | IBM CB | INDOOR BLOWER MOTOR CONTROL BOARD |
| CC    | COMPRESSOR CONTACTOR    | LAC    | LOW AMBIENT COOLING CONTROL       |
| CC    | CLOSED FILTER SWITCH    | LPC    | LOW PRESSURE CONTROL              |
| CLMP  | CLAMP                   | LC     | LOW DISCHARGE SENSOR              |
| CO    | COIL                    | OCN    | OUTDOOR FAN MOTOR                 |
| CP    | CAPACITOR               | PI     | PLUS                              |
| DP    | DISCHARGE AIR SENSOR    | RAT    | RAIN ACTUATOR                     |
| FAP   | FAN PROVING             | RC     | RESISTOR                          |
| FPS   | FREEZE SENSOR           | RES    | RETURN AIR SENSOR                 |
| FFCTO | FREEZE FAULT            | RTU-C  | ROOF TOP UNIT CONTROL             |
| FL    | FLOW                    | STD    | STEADY STATE TRANSFORMER          |
| GLD   | GROUND LUG              |        |                                   |
| GRD   | GROUND                  |        |                                   |
| HPC   | HIGH PRESSURE CONTROL   |        |                                   |

## NOTES:

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED BY A FUSE. PANELS ARE PROVIDED TO PERFORM SINGLE PHASE CONDITIONS.
- TRANSFORMER FACTORY WINDING CORRECT VOLTAGE - 230V VOLT SHOWN FOR 288 VOLT OPERATION MOVE BLACK FROM 248 VOLT TAP TO 288 VOLT TAP.
- CONTRACTOR FACTORY WIRED.
- CONNECT FIELD WIRE TO FACTORY SUPPLIED PITFALL.
- LOW VOLTAGE CIRCUIT IS N.E.C CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDING RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
- MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
- REMOVE PL7 FOR SMOKE DETECTOR ACCESSORY PL 6 & PL7 LOCATED IN RETURN AIR SECTION.
- ECONOMIZER LOGIC MODULE ELIM

## WIRING INFORMATION

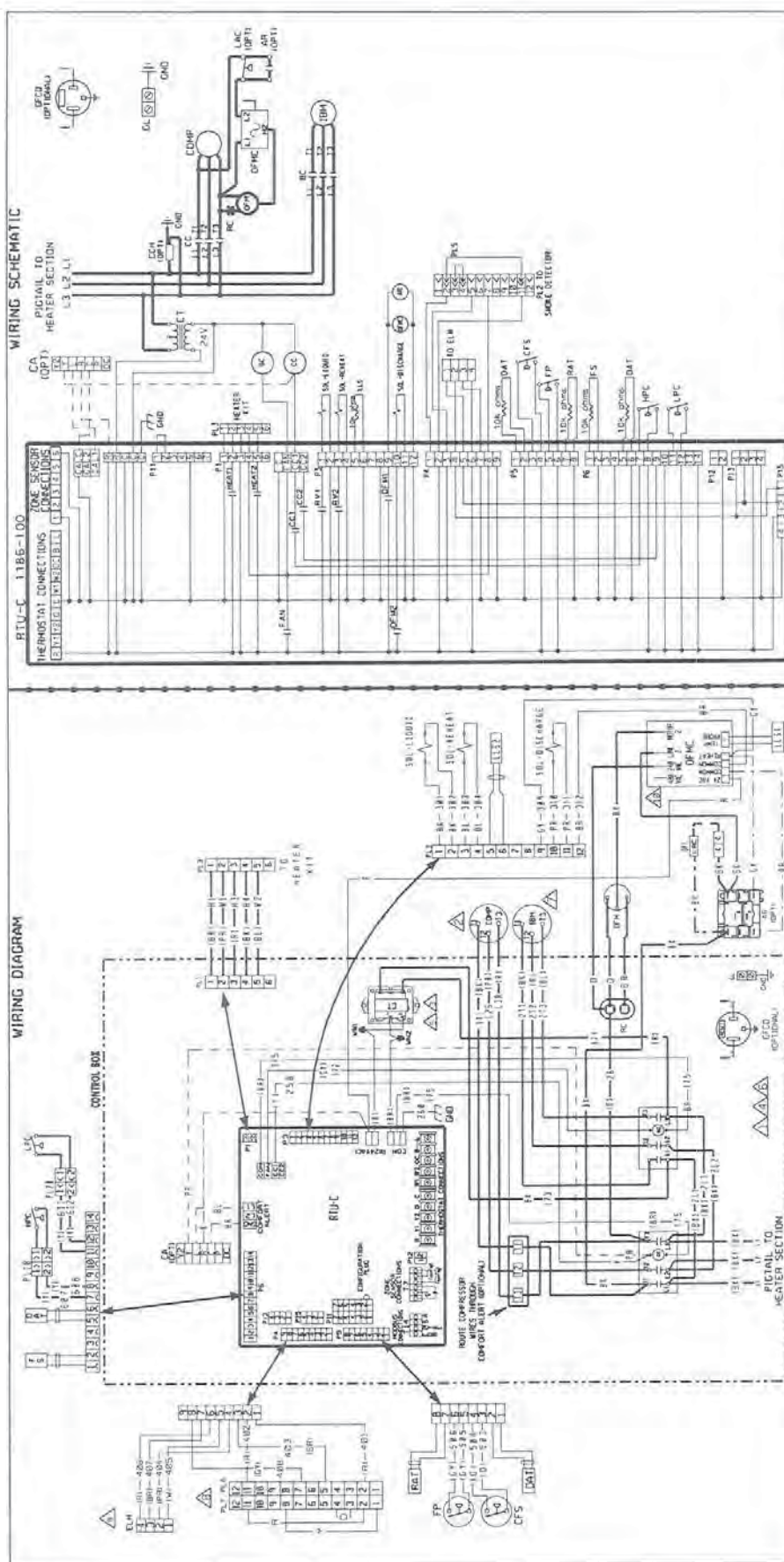
- WIRING INFORMATION
- |                                                                                                                  |       |
|------------------------------------------------------------------------------------------------------------------|-------|
| LINE VOLTAGE                                                                                                     | _____ |
| -FACTORY STANDARD                                                                                                | _____ |
| -FACTORY OPTION                                                                                                  | ----- |
| -FIELD INSTALLED                                                                                                 | ----- |
| LOW VOLTAGE                                                                                                      | _____ |
| -FACTORY STANDARD                                                                                                | _____ |
| -FACTORY OPTION                                                                                                  | ----- |
| -FIELD INSTALLED                                                                                                 | ----- |
| REPLACEMENT WIRE                                                                                                 | _____ |
| MUST BE THE SAME SIZE AND TYPE OF<br>INSULATION AS ORIGINAL (105 C° MIN.)                                        | _____ |
| WARNING                                                                                                          |       |
| -CABINET MUST BE PERMANENTLY<br>GROUNDED AND CONFORM TO I.E.C., N.E.C.,<br>C.E.C. AND LOCAL CODES AS APPLICABLE. |       |

## WIRE COLOR CODE

|    | BK    | BLACK | GY | GRAY   | R | RED    |
|----|-------|-------|----|--------|---|--------|
| BR | BROWN | BROWN | O  | ORANGE | W | WHITE  |
| BL | BLUE  | BLUE  | PK | PINK   | Y | YELLOW |
| G  | GREEN | GREEN | PR | PURPLE |   |        |

ELECTRICAL WIRING DIAGRAM  
460V 3 PH, 60 HZ.  
PACKAGED A/C W/RTU-C  
5 TON  
2-STAGE

|              |         |                |                          |           |
|--------------|---------|----------------|--------------------------|-----------|
| R. BY<br>MGR | APP. BY | DATE<br>5-6-13 | DWG. NO.<br>90-103089-40 | REV<br>02 |
|--------------|---------|----------------|--------------------------|-----------|



| COMPONENT CODE |                       | NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WIRING INFORMATION       |   | WIRE COLOR CODE |           |
|----------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---|-----------------|-----------|
| AP             | ACCESSORY RELAY       | <div>△ CONNECTORS SUITABLE FOR USE WITH COVER CONDUITS ONLY.</div> <div>△ COMPRESSOR MOTOR THERMALLY PROTECTED AGAINST PHASE LOSS.</div> <div>△ TRANSFORMER FACTORY WIRED FOR 208 VOLT OPERATION AND 200 VOLT TAP TO 208 VOLT TAP.</div> <div>△ CONTRACTOR FACTORY WIRED FOR 208 VOLT OPERATION AND 200 VOLT TAP TO 208 VOLT TAP.</div> <div>△ CONTRACTOR FACTORY WIRED FOR 208 VOLT OPERATION AND 200 VOLT TAP TO 208 VOLT TAP.</div> <div>△ LOW VOLTAGE CIRCUIT IS VOLT. CLASS 2 WITH A CLASS 2 TRANSFORMER 24V. 50/60 HZ SUPPLIED.</div> | LINE VOLTAGE             | — | BK BLACK        | O ORANGE  |
| AR             | ARMATURE              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -FACTORY STANDARD        | — | BR BROWN        | PR PURPLE |
| CA             | COMFORT ALERT MODULE  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -FIELD INSTALLED         | — | BL BLUE         | R RED     |
| CL             | CLIMATE CONTROL       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LOW VOLTAGE              | — | GR GREEN        | W WHITE   |
| CS             | CLOSED CIRCUIT SWITCH |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SINGLE PHASE COORDINATE. | — | GY GRAY         | Y YELLOW  |
| CT             | COMPRESSOR            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| CU             | CURTAIN TRANSDUCER    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| DA             | DISCHARGE AIR SENSOR  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| DB             | DISCHARGE AIR SENSOR  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
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| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FD             | FAN PROXIMITY         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FE             | FREEZE SENSOR         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |
| FC</           |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |   |                 |           |

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

**GENERAL TERMS OF LIMITED WARRANTY\***

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

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

|                                       |                |
|---------------------------------------|----------------|
| <b>Compressor</b>                     |                |
| 3 Phase, Commercial Applications..... | Five (5) Years |
| <b>Parts</b>                          |                |
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Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1  
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