



Package Air Conditioner  
RLNL-B Series

Ruud Commercial Achiever® Series  
Package Air Conditioner



**RLNL-B Standard  
Efficiency Series**

Nominal Sizes 15-25 Tons [52.8-87.9 kW]  
ASHRAE 90.1-2007 Compliant Model





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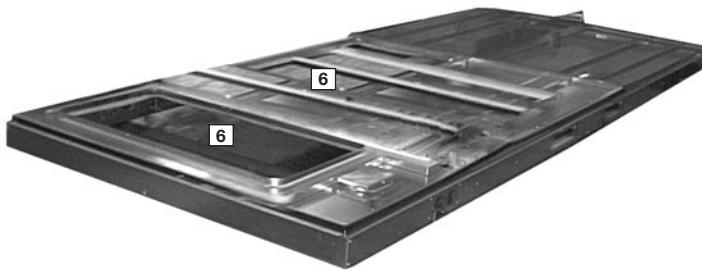
## STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Two independent refrigerant circuits each with a scroll compressor provide two stage cooling operation.
- Convertible airflow – vertical downflow or horizontal sideflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintaining high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Hinged major access door with heavy-duty gasketing, 1/4 turn latches and door retainers.
- Slide Out Indoor fan assembly for added service convenience.
- Base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils. (Exception: B241 models have microchannel condenser coils)
- Supplemental electric heat provides 100% efficient heating.
- MERV 8 (RXMF-M08A22520) & MERV 13 (RXMF-M13A22520) filters are available as an accessory.



Ruud Package equipment is designed from the ground up with the latest features and benefits required to compete in today's market. The clean design stands alone in the industry and is a testament to the quality, reliability, ease of installation and serviceability that goes into each unit. Outwardly, the large Ruud Commercial Series™ label (**1**) identifies the brand to the customer. The sheet-metal cabinet (**2**) uses nothing less than 20-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a top with a 1/8" drip lip (**3**), gasket-protected panels and screws. (**4**) The outdoor coil is slanted to protect from hail. Every Ruud package unit uses the toughest finish in the industry, using electro deposition baked-on enamel tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

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

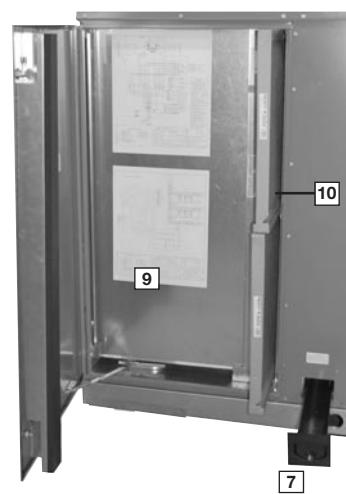


During development, each unit was tested to U.L. 1995, AHRI 340-360 and other Ruud-required reliability tests. Ruud adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate (**8**). Contractors can rest assured that when a Ruud package unit arrives at the job, it is ready to go with a factory charge and quality checks.

Access to all major compartments is from the front of the unit, including the filter and electrical compartment, blower compartment, heating section, and outdoor section. Each panel is permanently embossed with the compartment name (control/filter access, blower access and furnace access).

Electrical and filter compartment access is through a large, hinged-access panel with 1/4 turn latches. On the outside of the panel is the unit nameplate, which contains the model and serial number, electrical data and other important unit information.

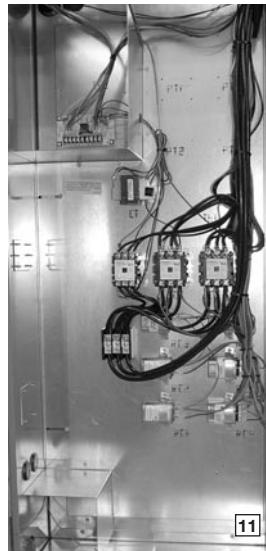
The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having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



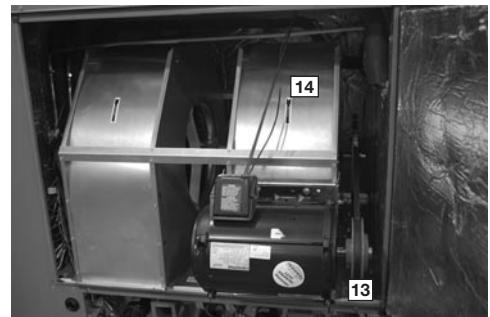


Inside the control box ([11]), each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The control transformer has a low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

For added convenience in the field, a factory-installed convenience outlet ([12]) is available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled. The high-voltage connection is terminated at the high voltage terminal block. The suggested mounting for the field-installed disconnect is on the exterior side of the electrical control box.



The blower compartment is to the right of the control box and can be accessed by 1/4 turn latches. To allow easy maintenance of the blower assembly, the entire assembly easily slides out by removing four #10 screws from the blower assembly. The adjustable motor pulley ([13]) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the pulley is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 0 to 6 turns open. Where the demands for the job require high static, Ruud has high-static drives available that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing ([14]) and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an "H" bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which can score the shaft, creating burrs that make blower-pulley removal difficult.



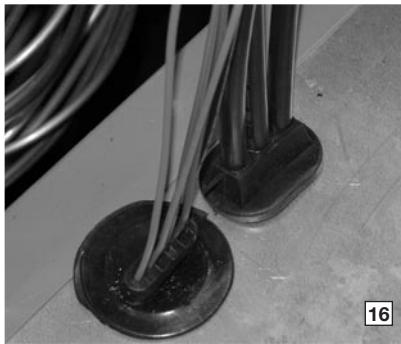
Also inside the blower compartment are the optional low-ambient controls (**15**). The optional low-ambient controls allow for operation of the compressors down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure.



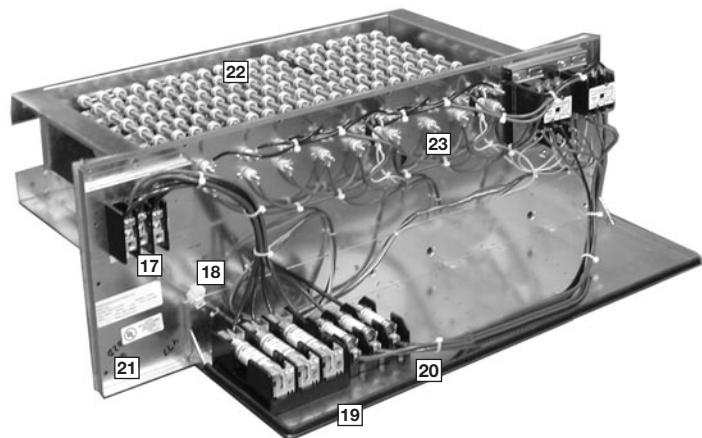
Inside the blower compartment the interlaced evaporator can also be viewed. The evaporator uses enhanced fin technology for maximum heat transfer. The TXV metering device assures even distribution of refrigerant throughout the evaporator.

Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly (**16**) provides an air-tight and water-tight seal, and provides strain relief. Care is also taken to tuck raw edges of insulation behind sheet metal to improve indoor air quality.

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

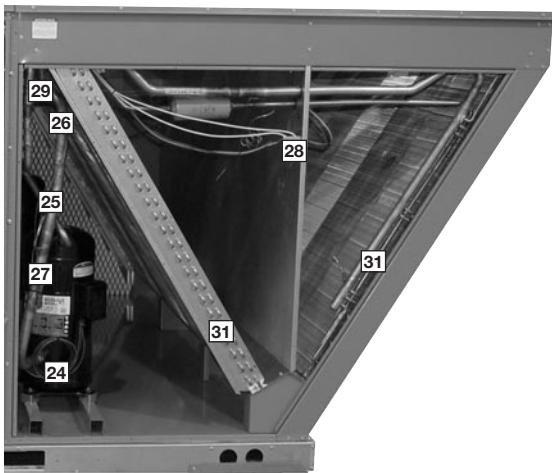


**16**



Power hook-up in the field is easy with single-point wiring to a terminal block (**17**) and a polarized plug for the low-voltage connection (**18**). The electric furnace comes with fuses for the unit (**19**) and for the electric furnace (**20**), and is UL certified (**21**). The electric heating elements are of a wound-wire construction (**22**) and isolated with ceramic bushings. The limit switch (**23**) protects the design from over-temperature conditions.

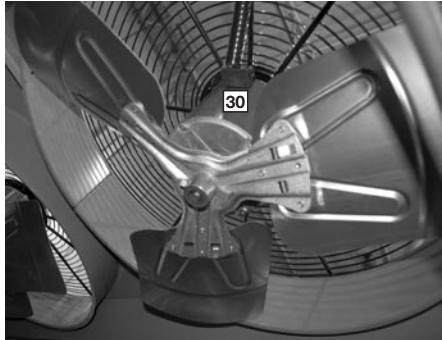
The compressor compartment houses the heartbeat of the unit. The scroll compressor (**24**) is known for its long life, and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (**25**) to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing. Each compressor and circuit is independent for built-in redundancy, and each circuit is clearly marked throughout the system. Each unit has two stages of efficient cooling operation, first stage is approximately 50% of second stage.



In the outdoor section are the external gauge ports ([26]). With the gauge ports mounted externally, an accurate diagnosis of system operation can be performed quickly and easily. Also located in this area are the refrigerant safety devices: the low-pressure switches ([27]), high-pressure switches ([28]) and the optional freeze-stats ([29]). The high-pressure switches will shut off the compressors if pressures exceeding 610 psig are detected as may occur if the outdoor fan motor fails. The low pressure switches shut off the compressors if low pressure is detected due to loss of refrigerant charge. The optional freeze-stats protect the compressors if the evaporator gets too cold (below freezing) due to low airflow. The factory-installed high and low pressure switches are brazed into the appropriate high or low side and wired appropriately. The optional freezestats clip on the suction lines above the compressors and connect to the low voltage circuit with the use of polarized plugs and a removable jumper for easy field or factory installation.

The condenser fan motor ([30]) can easily be accessed and maintained by removing the protective fan grille. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

The outdoor coil uses the latest enhanced fin design ([31]) for the most effective method of heat transfer. The outdoor coil is slanted to protect the unit from Mother Nature.

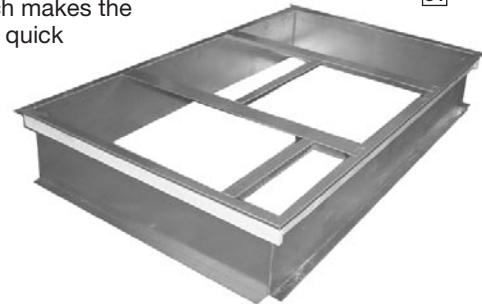


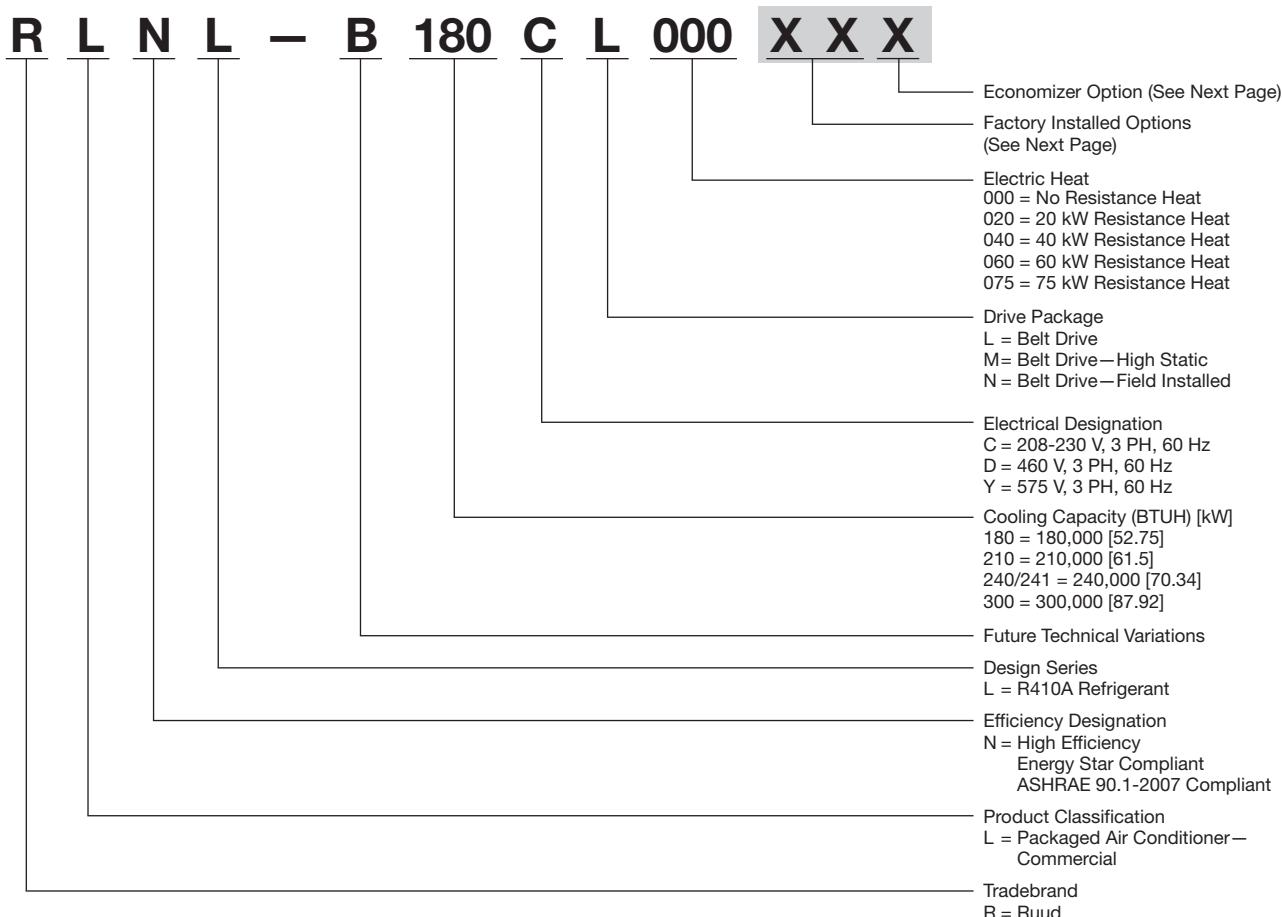
Each unit is designed for both downflow or horizontal applications ([32]) for job configuration flexibility. The return air compartment can also contain an economizer ([33]).

Two models exits, one for downflow applications, and one for horizontal applications. Each unit is pre-wired for the economizer to allow quick plug-in installation. The down-flow economizer is also available as a factory-installed option. Power Exhaust is easily field-installed. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field. The economizer control has a minimum position set-point, an outdoor-air setpoint, a mix-air set-point, and a CO<sub>2</sub> setpoint. Barometric relief is standard on all economizers. [33] The power exhaust is housed in the barometric relief opening and is easily slipped in with a plug-in assembly.



The Ruud roofcurb ([34]) is made for toolless assembly at the jobsite by inserting a pin into the hinged corners ([35]), which makes the assembly process quick and easy.





[ ] Designates Metric Conversions

## FACTORY INSTALLED OPTION CODES FOR RLNL- (15-20 TON) [52.8-70.3 kW] (B180, B210, B240, B241)

Option Code	Hail Guard	Non-Powered Convenience Outlet	Low Ambient/Freeze Stat	
AA		NO OPTIONS		
AD	X			
AG		X		
AP			X	
BY	X		X	
BJ	X	X		
JC		X	X	
CX	X	X	X	

Example: RLNL-B180CL000XXX (where **XX** is factory installed option)

Example: No Options

RLNL-B180CL000

Example: No Options with factory installed economizer

RLNL-B180CL000AAE

Example: Options with low ambient/freezestat and no factory installed economizer

RLNL-B180CL000APA

Example: Options same as above with factory installed economizer

RLNL-B180CL000APG

## ECONOMIZER SELECTION FOR RLNL- (B180, B210, B240, B241, B300)

Option Code	No Economizer	Single Enthalpy Economizer* With Barometric Relief	Single Enthalpy Economizer* With Barometric Relief and Smoke Detector
A	X		
F		X	
G			X

"X" indicates factory installed option.

\*Downflow economizer only.

### Instructions for Factory Installed Option(s) Selection

**Note:** Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.

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

Proceed to Step 2.

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

[ ] Designates Metric Conversions

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

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

##### **Example:**

Voltage —	240 V – 3 Phase – 60 Hz
Total Cooling Capacity —	205,000 BTUH [60.0 kW]
Sensible Cooling Capacity —	155,000 BTUH [45.4 kW]
Heating Capacity —	235,000 BTUH [68.8 kW]
*Condenser Entering Air —	95°F [35.0 °C] DB
*Evaporator Mixed Air Entering —	65°F [18.3 °C] WB 78°F [25.6 °C] DB
*Indoor Air Flow (vertical) —	7200 CFM [3398 L/s]
*External Static Pressure —	0.70 in. WG [.17 kPa]

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

Since total cooling is within the range of a nominal 20 ton [70.3 kW] unit, enter cooling performance table at 95°F [35.0 °C] DB condenser inlet air. Interpolate between 63°F [17.2 °C] WB and 67°F [19.4 °C] WB to determine total and sensible capacity and power input for 65°F [18.3 °C] WB evaporator inlet air at 7725 CFM [3645 L/s] indoor air flow (table basis):

Total Cooling Capacity = 238,250 BTUH [69.76 kW]
Sensible Cooling Capacity = 192,550 BTUH [56.38 kW]
Power Input (Compressor and Cond. Fans) = 18,200 watts
Use formula in note ① to determine sensible capacity at 78°F [25.6 °C] DB evaporator entering air:
192,550 + (1.10 x 7,200 x (1 - 0.11) x (78 - 80))
Sensible Cooling Capacity = 178,452 BTUH [52.25 kW]

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

Select factors from airflow correction table at 7200 CFM [3398 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity = 238,250 x 0.99 = 235,868BTUH [69.06 kW]
Sensible Capacity = 178,452 x 0.96 = 171,314 BTUH [50.16 kW]
Power Input = 18,200 x 0.99 = 18,018 Watts

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

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

Enter Indoor Blower performance table at 7200 CFM [3398 L/s]. Total ESP (external static pressure) per the spec of 0.70 in. WG [.17 kPa] includes the system duct and grilles. Add from the table "Component Air Resistance", 0.01 in. WG [.00 kPa] for wet coil, 0.08 in. WG [.02 kPa] for downflow air flow, for a total selection static pressure of 0.79 (0.8) in. WG [.20 kPa], and determine:

RPM = 739  
WATTS = 2,862  
DRIVE = L (standard 5 H.P. motor)

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

$$2,862 \times 3.412 = 9,765 \text{ BTUH [2.86 kW]}$$

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

$$\text{Net Total Capacity} = 235,868 - 9,765 = 226,103 \text{ BTUH [66.21 kW]}$$

$$\text{Net Sensible Capacity} = 171,314 - 9,765 = 161,549 \text{ BTUH [47.30 kW]}$$

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

$$\text{Total Power Input} = 18,018 \text{ (step 3)} + 2,862 \text{ (step 4)} = 20,880 \text{ Watts}$$

$$\text{EER} = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{226,103}{20,880} = 10.83$$

#### **8. SELECT UNIT HEATING CAPACITY.**

From Heater Kit Table select kW to meet heating capacity requirement; multiply kW x 3412 to convert to BTUH

Use 75 kW Heater Kit

Heater Kit Model: RXJJ-CE75C  
Heater Kit Capacity: 245,323 BTUH [71.8 kW]

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

$$245,323 + 9,765 = 255,088 \text{ BTUH [74.7 kW]}$$

#### **9. CHOOSE MODEL**

RLNL-B240CL075

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

[ ] Designates Metric Conversions

**NOM. SIZES 15-20 TONS [52.8-70.3 kW]**

<b>Model RLNL-Series</b>	<b>B180CL</b>	<b>B180CM</b>	<b>B180DL</b>	<b>B180DM</b>
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED →</b>
Gross Cooling Capacity Btu [kW]	188,000 [53.47]	188,000 [53.47]	188,000 [53.47]	188,000 [53.47]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	6000/5900 [2831/2784]
AHRI Net Cooling Capacity Btu [kW]	172,000 [48.92]	172,000 [48.92]	172,000 [48.92]	172,000 [48.92]
Net Sensible Capacity Btu [kW]	125,700 [35.75]	125,700 [35.75]	125,700 [35.75]	125,700 [35.75]
Net Latent Capacity Btu [kW]	46,300 [13.17]	46,300 [13.17]	46,300 [13.17]	46,300 [13.17]
IEER <sup>3</sup>	12.4	12.4	12.4	12.4
Net System Power kW	15.64	15.64	15.64	15.64
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 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]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	184
<b>Filter—Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>	205/211 [5812/5982]	205/211 [5812/5982]	205/211 [5812/5982]	205/211 [5812/5982]
<b>Weights</b>				
Net Weight lbs. [kg]	1826 [828]	1855 [841]	1958 [888]	1987 [901]
Ship Weight lbs. [kg]	1926 [874]	1955 [887]	2058 [934]	2087 [947]

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 15-20 TONS [52.8-70.3 kW]

Model RLNL-Series	B180YL	B180YM	B210CL	B210CM
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED →</b>
Gross Cooling Capacity Btu [kW]	188,000 [53.47]	188,000 [53.47]	212,000 [60.30]	212,000 [60.30]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	6000/5900 [2831/2784]	6000/5900 [2831/2784]	7000/6900 [3303/3256]	7000/6900 [3303/3256]
AHRI Net Cooling Capacity Btu [kW]	172,000 [48.92]	172,000 [48.92]	200,000 [56.88]	200,000 [56.88]
Net Sensible Capacity Btu [kW]	125,700 [35.75]	125,700 [35.75]	150,900 [42.91]	150,900 [42.91]
Net Latent Capacity Btu [kW]	46,300 [13.17]	46,300 [13.17]	49,100 [13.96]	49,100 [13.96]
IΕΕR <sup>3</sup>	12.4	12.4	12.4	12.4
Net System Power kW	15.64	15.64	18.18	18.18
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPCm]	1 / 22 [9]	1 / 22 [9]	2 / 18 [7]	2 / 18 [7]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPCm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	14800 [6984]	14800 [6984]
No. Motors/HP	4 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]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	184
<b>Filter—Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>	205/211 [5812/5982]	205/211 [5812/5982]	294/302 [8335/8562]	294/302 [8335/8562]
<b>Weights</b>				
Net Weight lbs. [kg]	1826 [828]	1855 [841]	2013 [913]	2042 [926]
Ship Weight lbs. [kg]	1926 [874]	1955 [887]	2140 [971]	2169 [984]

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[ ] Designates Metric Conversions

**NOM. SIZES 15-20 TONS [52.8-70.3 kW]**

Model RLNL-Series	B210DL	B210DM	B210YL	B210YM
<b>Cooling Performance<sup>1</sup></b>	<b>CONTINUED →</b>			
Gross Cooling Capacity Btu [kW]	212,000 [60.30]	212,000 [60.30]	212,000 [60.30]	212,000 [60.30]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	7000/6900 [3303/3256]	7000/6900 [3303/3256]	7000/6900 [3303/3256]	7000/6900 [3303/3256]
AHRI Net Cooling Capacity Btu [kW]	200,000 [56.88]	200,000 [56.88]	200,000 [56.88]	200,000 [56.88]
Net Sensible Capacity Btu [kW]	150,900 [42.91]	150,900 [42.91]	150,900 [42.91]	150,900 [42.91]
Net Latent Capacity Btu [kW]	49,100 [13.96]	49,100 [13.96]	49,100 [13.96]	49,100 [13.96]
IEER <sup>3</sup>	12.4	12.4	12.4	12.4
Net System Power kW	18.18	18.18	18.18	18.18
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPCm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPCm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	14800 [6984]	14800 [6984]	1800 [849]	14800 [6984]
No. Motors/HP	4 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]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	184
<b>Filter—Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>	296/302 [8392/8562]	294/302 [8335/8562]	294/302 [8335/8562]	294/302 [8335/8562]
<b>Weights</b>				
Net Weight lbs. [kg]	2013 [913]	2042 [926]	2013 [913]	2042 [926]
Ship Weight lbs. [kg]	2140 [971]	2169 [984]	2140 [971]	2169 [984]

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 15-20 TONS [52.8-70.3 kW]

Model RLNL-Series	B240CL	B240CM	B240CN	B240DL
<b>Cooling Performance<sup>1</sup></b>	<b>CONTINUED →</b>			
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]
Net Latent Capacity Btu [kW]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]
IΕΕR <sup>3</sup>	12.4	12.4	12.4	12.4
Net System Power kW	20.72	20.72	20.72	20.72
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPCm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPCm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 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]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	7 1/2	7 1/2	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	213	184
<b>Filter—Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]
<b>Weights</b>				
Net Weight lbs. [kg]	2151 [976]	2189 [993]	2187 [992]	2289 [1038]
Ship Weight lbs. [kg]	2251 [1021]	2289 [1038]	2287 [1037]	2389 [1084]

See Page 20 for Notes.

[ ] Designates Metric Conversions

**NOM. SIZES 15-20 TONS [52.8-70.3 kW]**

Model RLNL-Series	B240DM	B240DN	B240YL	B240YM
<b>Cooling Performance<sup>1</sup></b>	<b>CONTINUED →</b>			
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]	244,000 [69.40]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]	8000/7725 [3775/3645]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]	165,600 [47.10]
Net Latent Capacity Btu [kW]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]	62,400 [17.75]
IEER <sup>3</sup>	12.4	12.4	12.4	12.4
Net System Power kW	20.72	20.72	20.72	20.72
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 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]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	7 1/2	7 1/2	5	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	184	213
<b>Filter—Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]	402/331 [11397/9384]
<b>Weights</b>				
Net Weight lbs. [kg]	2327 [1056]	2325 [1055]	2151 [976]	2189 [993]
Ship Weight lbs. [kg]	2427 [1101]	2425 [1100]	2251 [1021]	2289 [1038]

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 15-20 TONS [52.8-70.3 kW]

Model RLNL- Series	B240YN	B241CL	B241CM
<b>Cooling Performance<sup>1</sup></b>	<b>CONTINUED →</b>		
Gross Cooling Capacity Btu [kW]	244,000 [69.40]	240,000 [68.26]	240,000 [68.26]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7725 [3775/3645]	8000/7375 [3775/3480]	8000/7375 [3775/3480]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	165,600 [47.10]	167,000 [47.50]	167,000 [47.50]
Net Latent Capacity Btu [kW]	62,400 [17.75]	63,000 [17.92]	63,000 [17.92]
IEER <sup>3</sup> (Standard / VFD)	12.4	12.4	12.4
Net System Power [kW]	20.72	20.73	20.73
<b>Compressor</b>			
No./Type	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered
Tube Type	Rifled	MicroChannel	MicroChannel
Tube Size in. [mm] OD	0.375 [9.5]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	53.3 [4.95]	50.8 [4.72]	50.8 [4.72]
Rows / FPI [FPcm]	2 / 22 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	3 / 13 [5]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075
<b>Indoor Fan—Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt (Adjustable)/Single/Multiple	Belt (Adjustable)/Single/Multiple
No. Motors	1	1	1
Motor HP	7 1/2	5	7 1/2
Motor RPM	1725	1725	1725
Motor Frame Size	213	184	213
<b>Filter—Type</b>	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g] (Sys. 1/Sys. 2) [g]</b>	402/331 [11397/9384]	271/227 [7683/6435]	271/227 [7683/6435]
<b>Weights</b>			
Net Weight lbs. [kg]	2187 [992]	2151 [976]	2189 [993]
Ship Weight lbs. [kg]	2287 [1037]	2251 [1021]	2289 [1038]

See Page 20 for Notes.

[ ] Designates Metric Conversions

**NOM. SIZES 15-20 TONS [52.8-70.3 kW]**

<b>Model RLRL- Series</b>	<b>B241DL</b>	<b>B241DM</b>	<b>B241YL</b>	<b>B241YM</b>
<b>Cooling Performance<sup>1</sup></b>	<b>CONTINUED →</b>			
Gross Cooling Capacity Btu [kW]	240,000 [68.26]	240,000 [68.26]	240,000 [68.26]	240,000 [68.26]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7375 [3775/3480]	8000/7375 [3775/3480]	8000/7375 [3775/3480]	8000/7375 [3775/3480]
AHRI Net Cooling Capacity Btu [kW]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]	228,000 [64.85]
Net Sensible Capacity Btu [kW]	167,000 [47.50]	167,000 [47.50]	167,000 [47.50]	167,000 [47.50]
Net Latent Capacity Btu [kW]	63,000 [17.92]	63,000 [17.92]	63,000 [17.92]	63,000 [17.92]
IEER <sup>3</sup> (Standard / VFD)	12.4	12.4	12.4	12.4
Net System Power [kW]	20.73	20.73	20.73	20.73
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	91	91	91	91
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]
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	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	14 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 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]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single	Single
No. Motors	1	1	1	1
Motor HP	5	7 1/2	5	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	184	213
<b>Filter—Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g] (Sys. 1/Sys. 2) [g]</b>	271/227 [7683/6435]	271/227 [7683/6435]	271/227 [7683/6435]	271/227 [7683/6435]
<b>Weights</b>				
Net Weight lbs. [kg]	2289 [1038]	2327 [1056]	2151 [976]	2189 [993]
Ship Weight lbs. [kg]	2389 [1084]	2427 [1101]	2251 [1021]	2289 [1038]

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 15-25 TONS [52.8-87.9 kW]

Model RLRL-Series	B300CL	B300CM	B300DL	CONTINUED →
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	312,000 [91.42]	312,000 [91.42]	312,000 [91.42]	
EER/SEER <sup>2</sup>	10/NA	10/NA	10/NA	
Nominal CFM/AHRI Rated CFM [L/s]	10000/9700 [4719/4577]	10000/9700 [4719/4577]	10000/9700 [4719/4577]	
AHRI Net Cooling Capacity Btu [kW]	290,000 [84.99]	290,000 [84.99]	290,000 [84.99]	
Net Sensible Capacity Btu [kW]	208,900 [61.22]	208,900 [61.22]	208,900 [61.22]	
Net Latent Capacity Btu [kW]	81,100 [23.76]	81,100 [23.76]	81,100 [23.76]	
IEER <sup>3</sup>	11.6	11.6	11.6	
Net System Power kW	29.00	29.00	29.00	
<b>Compressor</b>				
No./Type	2/Scroll	2/Scroll	2/Scroll	
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	92	92	92	
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	
Tube Type	Rifled	Rifled	Rifled	
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]	
Rows / FPI [FPCm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	
Tube Type	Rifled	Rifled	Rifled	
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	
Rows / FPI [FPCm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	
Refrigerant Control	TX Valves	TX Valves	TX Valves	
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]	
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]	
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP	
Motor RPM	1075	1075	1075	
<b>Indoor Fan—Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	
No. Motors	1	1	1	
Motor HP	7 1/2	10	7 1/2	
Motor RPM	1725	1725	1725	
Motor Frame Size	213	215	213	
<b>Filter—Type</b>	Disposable	Disposable	Disposable	
Furnished	Yes	Yes	Yes	
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>	339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]	
<b>Weights</b>				
Net Weight lbs. [kg]	2250 [1021]	2261 [1026]	2388 [1083]	
Ship Weight lbs. [kg]	2350 [1066]	2361 [1071]	2488 [1129]	

See Page 20 for Notes.

[ ] Designates Metric Conversions

**NOM. SIZES 15-25 TONS [52.8-87.9 kW]**

<b>Model RLNL- Series</b>	<b>B300DM</b>	<b>B300YL</b>	<b>B300YM</b>
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	312,000 [91.42]	312,000 [91.42]	312,000 [91.42]
EER/SEER <sup>2</sup>	10/NA	10/NA	10/NA
Nominal CFM/AHRI Rated CFM [L/s]	10000/9700 [4719/4577]	10000/9700 [4719/4577]	10000/9700 [4719/4577]
AHRI Net Cooling Capacity Btu [kW]	290,000 [84.99]	290,000 [84.99]	290,000 [84.99]
Net Sensible Capacity Btu [kW]	208,900 [61.22]	208,900 [61.22]	208,900 [61.22]
Net Latent Capacity Btu [kW]	81,100 [23.76]	81,100 [23.76]	81,100 [23.76]
IEER <sup>3</sup>	11.6	11.6	11.6
Net System Power kW	29.00	29.00	29.00
<b>Compressor</b>			
No./Type	2/Scroll	2/Scroll	2/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
92	92	92	92
<b>Outdoor Coil—Fin Type</b>			
Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
<b>Indoor Coil—Fin Type</b>			
Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>			
Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	6/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	19800 [9344]	19800 [9344]	19800 [9344]
No. Motors/HP	6 at 1/3 HP	6 at 1/3 HP	6 at 1/3 HP
Motor RPM	1075	1075	1075
<b>Indoor Fan—Type</b>			
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1
Motor HP	10	7 1/2	10
Motor RPM	1725	1725	1725
Motor Frame Size	215	213	215
<b>Filter—Type</b>			
Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]</b>			
339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]	339/357 [9611/10121]
<b>Weights</b>			
Net Weight lbs. [kg]	2399 [1088]	2250 [1021]	2261 [1026]
Ship Weight lbs. [kg]	2499 [1134]	2350 [1066]	2361 [1071]

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOTES:

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

## GROSS SYSTEMS PERFORMANCE DATA—B180

		ENTERING INDOOR AIR @ 80°F [26.7°C] dB <sub>E</sub> ①									
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		7200 [3398]	5900 [2784]	4800 [2265]	7200 [3398]	5900 [2784]	4800 [2265]	7200 [3398]	5900 [2784]	4800 [2265]	
DR ①		.04	.08	.13	.04	.08	.13	.04	.08	.13	
OUTDOOR DRY BULB TEMPERATURE °F / °C	75 [23.9]	Total BTUH [kW]	226.5 [66.4]	217.8 [63.8]	210.4 [61.7]	214.3 [62.8]	206.0 [60.4]	199.0 [58.3]	206.3 [60.5]	198.4 [58.1]	191.7 [56.2]
		Sens BTUH [kW]	148.8 [43.6]	126.2 [37.0]	108.5 [31.8]	174.1 [51.0]	149.6 [43.9]	130.2 [38.2]	193.4 [56.7]	167.5 [49.1]	146.8 [43.0]
		Power	12.6	12.3	12.1	12.4	12.2	12.0	12.2	12.0	11.8
	80 [26.7]	Total BTUH [kW]	222.2 [65.1]	213.6 [62.6]	206.4 [60.5]	209.9 [61.5]	201.8 [59.1]	195.0 [57.1]	202.0 [59.2]	194.2 [56.9]	187.6 [55.0]
		Sens BTUH [kW]	146.6 [43.0]	124.3 [36.4]	106.9 [31.3]	171.9 [50.4]	147.8 [43.3]	128.7 [37.7]	191.3 [56.1]	165.7 [48.6]	145.3 [42.6]
		Power	13.1	12.9	12.7	13.0	12.7	12.5	12.8	12.6	12.4
	85 [29.4]	Total BTUH [kW]	217.5 [63.7]	209.1 [61.3]	202.0 [59.2]	205.3 [60.2]	197.3 [57.8]	190.7 [55.9]	197.3 [57.8]	189.7 [55.6]	183.3 [53.7]
		Sens BTUH [kW]	144.1 [42.2]	122.3 [35.9]	105.2 [30.8]	169.5 [49.7]	145.7 [42.7]	134.4	13.1	188.8 [55.3]	163.6 [48.0]
		Power	13.8	13.5	13.3	13.6	14.0	13.8	13.5	13.2	13.0
OUTDOOR DRY BULB TEMPERATURE °F / °C	90 [32.2]	Total BTUH [kW]	212.5 [62.3]	204.3 [59.9]	197.4 [57.9]	200.2 [58.7]	192.5 [56.4]	186.0 [54.5]	192.3 [56.4]	184.9 [54.2]	178.6 [52.3]
		Sens BTUH [kW]	141.4 [41.5]	120.0 [35.2]	103.3 [30.3]	166.7 [48.9]	143.5 [42.1]	125.1 [36.7]	186.2 [54.6]	161.4 [47.3]	141.6 [41.5]
		Power	14.5	14.2	14.0	14.3	14.0	13.8	14.2	13.9	13.7
	95 [35]	Total BTUH [kW]	207.2 [60.7]	199.2 [58.4]	192.4 [56.4]	194.9 [57.1]	187.4 [54.9]	181.0 [53.0]	187.0 [54.8]	179.8 [52.7]	173.7 [50.9]
		Sens BTUH [kW]	138.5 [40.6]	117.6 [34.5]	101.2 [29.7]	163.9 [48.0]	141.1 [41.4]	123.0 [36.1]	183.3 [53.7]	159.0 [46.6]	139.6 [40.9]
		Power	15.2	14.9	14.7	15.1	14.8	14.5	14.9	14.6	14.4
	100 [37.8]	Total BTUH [kW]	201.5 [59.1]	193.7 [56.8]	187.2 [54.9]	189.2 [55.4]	181.9 [53.3]	175.8 [51.5]	181.3 [53.1]	174.3 [51.1]	168.4 [49.4]
		Sens BTUH [kW]	135.4 [39.7]	115.0 [33.7]	99.1 [29.1]	160.7 [47.1]	138.4 [40.6]	120.8 [35.4]	180.1 [52.8]	156.3 [45.8]	137.3 [40.2]
		Power	16.0	15.7	15.4	15.9	15.6	15.3	15.7	15.4	15.1
OUTDOOR DRY BULB TEMPERATURE °F / °C	105 [40.6]	Total BTUH [kW]	195.5 [57.3]	188.0 [55.1]	181.6 [53.2]	183.2 [53.7]	176.2 [51.6]	170.2 [49.9]	175.3 [51.4]	168.5 [49.4]	162.8 [47.7]
		Sens BTUH [kW]	132.0 [38.7]	112.2 [32.9]	96.6 [28.3]	157.3 [46.1]	135.6 [39.8]	118.3 [34.7]	175.3 [51.4]	153.4 [45.0]	134.8 [39.5]
		Power	16.9	16.5	16.3	16.7	16.4	16.1	16.5	16.2	16.0
	110 [43.3]	Total BTUH [kW]	189.2 [55.4]	181.9 [53.3]	175.7 [51.5]	176.9 [51.8]	170.1 [49.9]	164.3 [48.2]	169.0 [49.5]	162.5 [47.6]	156.9 [46.0]
		Sens BTUH [kW]	128.4 [37.6]	109.1 [32.0]	93.9 [27.5]	153.7 [45.1]	132.6 [38.9]	115.8 [33.9]	169.0 [49.5]	150.5 [44.1]	132.3 [38.8]
		Power	17.8	17.4	17.1	17.6	17.3	17.0	17.5	17.1	16.8
	115 [46.1]	Total BTUH [kW]	182.5 [53.5]	175.5 [51.4]	169.5 [49.7]	170.2 [49.9]	163.7 [48.0]	158.1 [46.3]	162.3 [47.6]	156.0 [45.7]	150.8 [44.2]
		Sens BTUH [kW]	124.5 [36.5]	105.9 [31.0]	91.2 [26.7]	149.9 [43.9]	129.4 [37.9]	113.0 [33.1]	162.3 [47.6]	147.2 [43.2]	129.6 [38.0]
		Power	18.7	18.4	18.1	18.6	18.2	17.9	18.4	18.1	17.8

## GROSS SYSTEMS PERFORMANCE DATA—B210

		ENTERING INDOOR AIR @ 80°F [26.7°C] dB <sub>E</sub> ①									
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		8400 [3964]	7025 [3315]	5600 [2643]	8400 [3964]	7025 [3315]	5600 [2643]	8400 [3964]	7025 [3315]	5600 [2643]	
DR ①		.06	.09	.13	.06	.09	.13	.06	.09	.13	
OUTDOOR DRY BULB TEMPERATURE °F / °C	75 [23.9]	Total BTUH [kW]	258.4 [75.7]	249.5 [73.1]	240.3 [70.4]	244.1 [71.5]	235.7 [69.1]	227.0 [66.5]	231.9 [68.0]	223.9 [65.6]	215.7 [63.2]
		Sens BTUH [kW]	193.9 [56.8]	168.8 [49.5]	144.5 [42.4]	224.6 [65.8]	197.4 [57.9]	170.8 [50.1]	231.9 [68.0]	217.1 [63.6]	189.1 [55.4]
		Power	13.0	12.8	12.5	12.8	12.6	12.4	12.7	12.4	12.2
	80 [26.7]	Total BTUH [kW]	252.7 [74.1]	244.0 [71.5]	235.0 [68.9]	238.4 [69.9]	230.2 [67.5]	221.7 [65.0]	226.2 [66.3]	218.4 [64.0]	210.4 [61.7]
		Sens BTUH [kW]	182.3 [53.4]	158.3 [46.4]	135.2 [39.6]	135.2 [62.4]	186.9 [54.8]	161.5 [47.3]	132.6 [66.3]	206.6 [60.6]	179.8 [52.7]
		Power	13.6	13.4	13.1	13.4	13.2	13.0	13.3	13.0	12.8
	85 [29.4]	Total BTUH [kW]	246.7 [72.3]	238.2 [69.8]	229.4 [67.2]	232.4 [68.1]	224.4 [65.8]	216.1 [63.3]	220.2 [64.5]	212.6 [62.3]	204.8 [60.0]
		Sens BTUH [kW]	171.9 [50.4]	149.0 [43.7]	126.9 [37.2]	202.7 [59.4]	177.7 [52.1]	153.4 [45.0]	220.2 [64.5]	197.4 [57.9]	171.7 [50.3]
		Power	14.2	14.0	13.7	14.1	13.8	13.6	13.9	13.7	13.4
OUTDOOR DRY BULB TEMPERATURE °F / °C	90 [32.2]	Total BTUH [kW]	240.4 [70.5]	232.1 [68.0]	223.5 [65.5]	226.1 [66.3]	218.3 [64.0]	210.3 [61.6]	213.9 [62.7]	206.5 [60.5]	198.9 [58.3]
		Sens BTUH [kW]	162.9 [47.8]	141.0 [41.3]	119.9 [35.1]	193.6 [56.7]	169.6 [49.7]	146.3 [42.9]	213.9 [62.7]	189.3 [55.5]	164.5 [48.2]
		Power	14.9	14.7	14.4	14.8	14.5	14.3	14.6	14.4	14.1
	95 [35]	Total BTUH [kW]	233.8 [68.5]	225.7 [66.1]	217.4 [63.7]	219.5 [64.3]	212.0 [62.1]	204.1 [59.8]	207.3 [60.8]	200.2 [58.7]	192.8 [56.5]
		Sens BTUH [kW]	155.3 [45.5]	134.2 [39.3]	114.0 [33.4]	186.0 [54.5]	162.9 [47.8]	140.3 [41.1]	207.0 [60.7]	182.6 [53.5]	158.6 [46.5]
		Power	15.7	15.4	15.1	15.5	15.2	15.0	15.3	15.1	14.8
	100 [37.8]	Total BTUH [kW]	226.9 [66.5]	219.1 [64.2]	211.0 [61.8]	212.6 [62.3]	205.3 [60.2]	197.7 [57.9]	200.4 [58.7]	193.5 [56.7]	186.4 [54.6]
		Sens BTUH [kW]	149.0 [43.7]	128.7 [37.7]	109.2 [32.0]	179.6 [52.6]	157.3 [46.1]	135.5 [39.7]	200.4 [58.7]	177.0 [51.9]	153.8 [45.1]
		Power	16.5	16.2	15.9	16.3	16.0	15.7	16.1	15.9	15.6
OUTDOOR DRY BULB TEMPERATURE °F / °C	105 [40.6]	Total BTUH [kW]	219.7 [64.4]	212.1 [62.2]	204.3 [59.9]	205.4 [60.2]	198.3 [58.1]	191.0 [56.0]	193.2 [56.6]	186.5 [54.7]	179.7 [52.7]
		Sens BTUH [kW]	143.9 [42.2]	124.3 [36.4]	105.5 [30.9]	174.6 [51.2]	152.9 [44.8]	131.8 [38.6]	193.2 [56.6]	172.7 [50.6]	150.2 [44.0]
		Power	17.3	17.0	16.7	17.1	16.8	16.5	17.0	16.7	16.4
	110 [43.3]	Total BTUH [kW]	212.2 [62.2]	204.9 [60.1]	197.3 [57.8]	197.9 [58.0]	191.1 [56.0]	184.0 [53.9]	185.7 [54.4]	179.3 [52.5]	172.7 [50.6]
		Sens BTUH [kW]	140.3 [41.1]	121.3 [35.6]	102.9 [30.2]	171.0 [50.1]	149.9 [43.9]	129.3 [37.9]	185.7 [54.4]	169.6 [49.7]	147.6 [43.3]
		Power	18.2	17.9	17.5	18.0	17.7	17.4	17.9	17.6	17.2
	115 [46.1]	Total BTUH [kW]	204.4 [59.9]	197.3 [57.8]	190.1 [55.7]	190.1 [55.7]	183.5 [53.8]	176.8 [51.8]	177.9 [52.1]	171.8 [50.3]	165.4 [48.5]
		Sens BTUH [kW]	138.1 [40.5]	119.4 [35.0]	101.6 [29.8]	168.7 [49.5]	148.0 [43.4]	127.9 [37.5]	177.9 [52.1]	167.8 [49.2]	146.1 [42.8]
		Power	9.1	18.8	18.5	19.0	18.6	18.3	18.8	18.5	18.1

DR —Depression ratio  
 dB<sub>E</sub> —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 (dB<sub>E</sub> - 80)].

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA – B240

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]		9600 [4530]	7725 [3646]	6400 [3020]	9600 [4530]	7725 [3646]	6400 [3020]	9600 [4530]
DR ②		.06	.11	.15	.06	.11	.15	.06
OUTDOOR DRY BULB TEMPERATURE [°F / °C]	75 [23.9]	Total BTUH [kW]	283.5 [83.1]	271.5 [79.6]	263.0 [77.1]	269.6 [79.0]	258.2 [75.7]	250.2 [73.3]
	75 [23.9]	Sens BTUH [kW]	187.4 [54.9]	156.3 [45.8]	136.0 [39.9]	220.5 [64.6]	186.7 [54.7]	164.4 [48.2]
	75 [23.9]	Power	15.4	15.1	14.9	15.3	15.0	14.7
	80 [26.7]	Total BTUH [kW]	280.8 [82.3]	269.0 [78.8]	260.6 [76.4]	267.0 [78.2]	255.7 [74.9]	247.7 [72.6]
	80 [26.7]	Sens BTUH [kW]	186.4 [54.6]	155.6 [45.6]	135.4 [39.7]	219.6 [64.4]	186.0 [54.5]	163.8 [48.0]
	80 [26.7]	Power	16.2	15.9	15.6	16.0	15.7	15.5
	85 [29.4]	Total BTUH [kW]	277.4 [81.3]	265.7 [77.9]	257.4 [75.4]	263.5 [77.2]	252.4 [74.0]	244.5 [71.7]
	85 [29.4]	Sens BTUH [kW]	184.9 [54.2]	154.4 [45.3]	134.4 [39.4]	218.1 [63.9]	184.8 [54.2]	162.7 [47.7]
	85 [29.4]	Power	17.0	16.7	16.4	16.9	16.5	16.3
OUTDOOR DRY BULB TEMPERATURE [°F / °C]	90 [32.2]	Total BTUH [kW]	273.1 [80.0]	261.6 [76.7]	253.4 [74.3]	259.3 [76.0]	248.3 [72.8]	240.6 [70.5]
	90 [32.2]	Sens BTUH [kW]	182.8 [53.6]	152.7 [44.8]	132.9 [39.0]	216.2 [63.4]	183.2 [53.7]	161.5 [47.3]
	90 [32.2]	Power	17.9	17.5	17.3	17.7	17.4	17.1
	95 [35]	Total BTUH [kW]	268.1 [78.6]	256.7 [75.2]	248.7 [72.9]	254.2 [74.5]	243.5 [71.4]	235.9 [69.1]
	95 [35]	Sens BTUH [kW]	180.2 [52.8]	150.5 [44.1]	131.1 [38.4]	213.5 [62.6]	181.1 [53.1]	159.6 [46.8]
	95 [35]	Power	18.8	18.4	18.2	18.7	18.3	18.0
	100 [37.8]	Total BTUH [kW]	262.2 [76.8]	251.1 [73.6]	243.3 [71.3]	248.3 [72.8]	237.8 [69.7]	230.4 [67.5]
	100 [37.8]	Sens BTUH [kW]	177.1 [51.9]	148.0 [43.4]	129.0 [37.8]	210.4 [61.7]	178.5 [52.3]	157.4 [46.1]
	100 [37.8]	Power	19.8	19.4	19.1	19.6	19.2	18.9
OUTDOOR DRY BULB TEMPERATURE [°F / °C]	105 [40.6]	Total BTUH [kW]	255.5 [74.9]	244.7 [71.7]	237.1 [69.5]	241.6 [70.8]	231.4 [67.8]	224.2 [65.7]
	105 [40.6]	Sens BTUH [kW]	173.4 [50.8]	145.0 [42.5]	126.4 [37.1]	206.6 [60.6]	175.4 [51.4]	154.7 [45.3]
	105 [40.6]	Power	20.8	20.4	20.1	20.7	20.2	19.9
	110 [43.3]	Total BTUH [kW]	248.0 [72.7]	237.5 [69.6]	230.1 [67.4]	234.1 [68.6]	224.2 [65.7]	217.2 [63.7]
	110 [43.3]	Sens BTUH [kW]	169.2 [49.6]	141.5 [41.5]	123.4 [36.2]	202.4 [59.3]	171.9 [50.4]	151.7 [44.5]
	110 [43.3]	Power	21.9	21.5	21.1	21.7	21.3	21.0
	115 [46.1]	Total BTUH [kW]	239.6 [70.2]	229.5 [67.3]	222.3 [65.1]	225.8 [66.2]	216.2 [63.4]	209.5 [61.4]
	115 [46.1]	Sens BTUH [kW]	164.3 [48.2]	137.5 [40.3]	119.9 [35.1]	197.7 [58.0]	168.0 [49.2]	148.4 [43.5]
	115 [46.1]	Power	23.1	22.6	22.2	22.9	22.4	22.1

DR —Depression ratio

Total —Total capacity x 1000 BTUH

dB —Entering air dry bulb

Sens —Sensible capacity x 1000 BTUH

wbE —Entering air wet bulb

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 (dB - 80)].

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA—RLNL-B241

		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]		8113 [3829]	7375 [3481]	6269 [2959]	8113 [3829]	7375 [3481]	6269 [2959]	8113 [3829]	7375 [3481]	6269 [2959]	
DR ①		.11	.09	.06	.11	.09	.06	.11	.09	.06	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	80 [26.7]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	85 [29.4]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	90 [32.2]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	95 [35]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	100 [37.8]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	105 [40.6]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	110 [43.3]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	115 [46.1]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	120 [48.9]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2
	125 [51.7]	Total BTUH [kW]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]	245.4 [71.9]	241.0 [70.6]	234.4 [68.7]
		Sens BTUH [kW]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]	186.3 [54.6]	178.0 [52.2]	165.5 [48.5]
		Power	16.5	16.4	16.2	16.5	16.4	16.2	16.5	16.4	16.2

DR —Depression ratio  
 dB —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 (dB - 80)].

[ ] Designates Metric Conversions

## GROSS SYSTEMS PERFORMANCE DATA – B300

wbE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		12000 [5663]	9475 [4472]	8000 [3776]	12000 [5663]	9475 [4472]	8000 [3776]	12000 [5663]	9475 [4472]	8000 [3776]	
DR ①		.02	.08	.11	.02	.08	.11	.02	.08	.11	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	376.4 [110.3]	359.0 [105.2]	348.9 [102.3]	358.0 [104.9]	341.5 [100.1]	331.8 [97.2]	347.0 [101.7]	330.9 [97.0]	321.6 [94.3]
		Sens BTUH [kW]	251.6 [73.7]	206.4 [60.5]	182.0 [53.3]	294.2 [86.2]	245.2 [71.9]	218.4 [64.0]	326.2 [95.6]	274.0 [80.3]	245.5 [72.0]
		Power	20.8	20.3	20.0	20.5	20.0	19.7	20.2	19.7	19.5
	80 [26.7]	Total BTUH [kW]	369.9 [108.4]	352.8 [103.4]	342.8 [100.5]	351.5 [103.0]	335.2 [98.2]	325.7 [95.5]	340.4 [99.8]	324.6 [95.1]	315.5 [92.5]
		Sens BTUH [kW]	248.1 [72.7]	203.6 [59.7]	179.5 [52.6]	290.8 [85.2]	242.3 [71.0]	215.9 [63.3]	322.6 [94.6]	271.1 [79.5]	243.0 [71.2]
		Power	21.7	21.2	21.0	21.4	21.0	20.7	21.2	20.7	20.4
	85 [29.4]	Total BTUH [kW]	362.5 [106.2]	345.7 [101.3]	335.9 [98.4]	344.1 [100.8]	328.2 [96.2]	318.9 [93.5]	333.0 [97.6]	317.6 [93.1]	308.6 [90.4]
		Sens BTUH [kW]	244.2 [71.6]	200.4 [58.7]	176.8 [51.8]	286.8 [84.1]	239.2 [70.1]	213.2 [62.5]	318.6 [93.4]	268.0 [78.6]	240.2 [70.4]
	90 [32.2]	Total BTUH [kW]	354.3 [103.8]	338.0 [99.1]	328.4 [96.2]	335.9 [98.4]	320.4 [93.9]	311.3 [91.2]	324.9 [95.2]	309.8 [90.8]	301.1 [88.2]
		Sens BTUH [kW]	239.8 [70.3]	197.0 [57.7]	173.8 [50.9]	282.4 [82.8]	235.7 [69.1]	210.1 [61.6]	314.4 [92.2]	264.5 [77.5]	237.2 [69.5]
		Power	23.9	23.3	23.0	23.6	23.0	22.7	23.3	22.7	22.4
	95 [35]	Total BTUH [kW]	345.4 [101.2]	329.4 [96.5]	320.1 [93.8]	327.0 [95.8]	311.9 [91.4]	303.1 [88.8]	315.9 [92.6]	301.3 [88.3]	292.8 [85.8]
		Sens BTUH [kW]	235.2 [68.9]	193.2 [56.6]	170.5 [50.0]	277.8 [81.4]	232.0 [68.0]	207.0 [60.7]	309.7 [90.8]	260.8 [76.4]	234.0 [68.6]
		Power	25.0	24.4	24.1	24.7	24.1	23.8	24.4	23.9	23.5
	100 [37.8]	Total BTUH [kW]	335.7 [98.4]	320.2 [93.8]	311.1 [91.2]	317.3 [93.0]	302.6 [88.7]	294.1 [86.2]	306.2 [89.7]	292.1 [85.6]	283.8 [83.2]
		Sens BTUH [kW]	230.3 [67.5]	189.3 [55.5]	167.1 [49.0]	272.9 [80.0]	228.0 [66.8]	203.6 [59.7]	304.7 [89.3]	256.9 [75.3]	230.5 [67.6]
		Power	26.2	25.6	25.3	25.9	25.3	25.0	25.6	25.1	24.7
	105 [40.6]	Total BTUH [kW]	325.2 [95.3]	310.2 [90.9]	301.4 [88.3]	306.8 [89.9]	292.6 [85.8]	284.3 [83.3]	295.7 [86.7]	282.0 [82.6]	274.1 [80.3]
		Sens BTUH [kW]	224.9 [65.9]	185.0 [54.2]	163.4 [47.9]	267.5 [78.4]	223.7 [65.6]	199.8 [58.6]	295.7 [86.7]	252.5 [74.0]	226.8 [66.5]
		Power	27.5	26.9	26.5	27.2	26.6	26.2	26.9	26.3	25.9
	110 [43.3]	Total BTUH [kW]	313.9 [92.0]	299.4 [87.7]	290.9 [85.3]	295.5 [86.6]	281.9 [82.6]	273.9 [80.3]	284.4 [83.3]	271.3 [79.5]	263.6 [77.3]
		Sens BTUH [kW]	219.3 [64.3]	180.5 [52.9]	159.5 [46.8]	261.9 [76.8]	219.3 [64.3]	195.9 [57.4]	284.4 [83.4]	248.1 [72.7]	222.9 [65.3]
		Power	28.9	28.2	27.8	28.6	27.9	27.5	28.3	27.6	27.2
	115 [46.1]	Total BTUH [kW]	301.8 [88.4]	287.9 [84.4]	279.7 [82.0]	283.4 [83.1]	270.4 [79.2]	262.7 [77.0]	272.4 [79.8]	259.8 [76.1]	252.4 [74.0]
		Sens BTUH [kW]	213.2 [62.5]	175.7 [51.5]	155.3 [45.5]	255.8 [75.0]	214.5 [62.9]	191.8 [56.2]	272.4 [79.8]	243.3 [71.3]	218.8 [64.1]
		Power	30.3	29.6	29.2	30.0	29.3	28.9	29.7	29.0	28.6

DR —Depression ratio

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 – 15 TON [52.8 kW]–SIDEDFLOW

Model RLNL-B180		Voltage 208/230, 460, 575 — 3 Phase		External Static Pressure—Inches of Water [kPa]																					
Air Flow	CFM [L/s]	0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.30]	1.3 [.32]	1.4 [.35]	1.5 [.37]	1.6 [.40]	1.7 [.42]	1.8 [.45]	1.9 [.47]	2.0 [.50]				
	CFM [L/s]	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM			
4800 [2265]	—	—	—	—	—	—	—	—	—	583	1338	608	1508	632	1621	656	1732	679	1841	701	1947	723	2052	744	
5000 [2359]	—	—	—	—	—	—	—	—	—	591	1476	616	1593	640	1707	663	1820	686	1930	708	2038	729	2145	750	
5200 [2454]	—	—	—	—	—	—	—	—	—	575	1442	600	1562	624	1681	648	1797	671	1911	693	2023	715	2133	736	
5400 [2548]	—	—	—	—	—	—	—	—	—	583	1530	608	1652	632	1772	655	1890	678	2005	701	2119	722	2231	743	
5600 [2643]	—	—	—	—	—	—	—	—	—	592	1621	616	1745	640	1866	663	1986	686	2013	708	2218	729	2331	750	
5800 [2737]	—	—	—	—	—	—	—	—	—	576	1588	601	1715	625	1840	649	1964	672	2085	694	2204	716	2321	737	
6000 [2831]	—	—	—	—	—	—	—	—	—	585	1683	610	1813	634	1940	657	2065	680	2187	702	2308	724	2426	744	
6200 [2926]	—	—	—	—	—	—	—	—	—	570	1650	595	1783	619	1913	643	2042	666	2169	688	2293	710	2415	731	
6400 [3020]	—	—	—	—	—	—	—	—	—	579	1750	604	1885	628	2017	652	2214	674	2276	697	2402	718	2526	739	
6600 [3114]	—	—	—	—	—	—	—	—	—	589	1854	614	1991	637	2125	661	2257	683	2386	705	2514	727	2640	748	
6800 [3209]	—	—	—	—	—	—	—	—	—	574	1822	599	1961	623	2099	647	2225	670	2369	692	2500	714	2629	735	
7000 [3303]	—	—	—	—	—	—	—	—	—	584	1930	609	2072	633	2211	656	2349	673	2484	701	2617	723	2748	744	
7200 [3398]	570	1897	595	2042	619	2185	643	2327	666	2466	689	2602	711	2737	732	2870	753	3000	773	3127	793	3270	812	3416	831

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

Drive Package	L	M
Motor H.P. [W]	3.0 [2237.1]	5.0 [3728.5]
Blower Sheave	BK105H	BK105H
Motor Sheave	1WL-44	1VP-56
Turns Open	1	2
RPM	733	701

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

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

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

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

## COMPONENT AIR RESISTANCE—15 TON [52.8 kW]

CFM [L/s]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]
Resistance — Inches of Water [kPa]													
Wat Coil	0.03 [.01]	0.04 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.12 [.03]	0.13 [.03]
Downflow	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.08 [.02]						
Downflow Economizer	0.09 [.02]	0.10 [.02]	0.10 [.02]	0.11 [.02]	0.11 [.02]	0.12 [.03]	0.13 [.03]	0.13 [.03]	0.14 [.04]	0.15 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]
R.A. Damper Open	0.00 [.00]	0.01 [.00]	0.01 [.00]	0.02 [.00]	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]
Horizontal Economizer	0.00 [.00]	0.01 [.00]	0.01 [.00]	0.02 [.00]	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]
R.A. Damper Open	0.21 [.05]	0.25 [.06]	0.28 [.07]	0.32 [.08]	0.35 [.09]	0.39 [.10]	0.43 [.11]	0.46 [.11]	0.50 [.12]	0.54 [.12]	0.57 [.14]	0.61 [.15]	0.64 [.16]
Concentric Grill RXRN-AD80 or RXRN AD81 & Transition RXMC-CJ07	0.068 [.02]	0.072 [.02]	0.076 [.02]	0.08 [.02]	0.084 [.02]	0.088 [.02]	0.092 [.02]	0.096 [.02]	0.104 [.02]	0.108 [.03]	0.112 [.03]	0.116 [.03]	0.116 [.03]
Pressure Drop MERV 8	0.009 [.00]	0.015 [.00]	0.021 [.00]	0.028 [.00]	0.034 [.01]	0.04 [.01]	0.046 [.01]	0.052 [.01]	0.058 [.01]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]
Pressure Drop MERV 13	0.009 [.00]	0.015 [.00]	0.021 [.00]	0.028 [.00]	0.034 [.01]	0.04 [.01]	0.046 [.01]	0.052 [.01]	0.058 [.01]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]

NOTE: Add component resistance to duct resistance to determine total external static pressure.

## AIRFLOW CORRECTION FACTORS—15 TON [52.8 kW]

ACTUAL—CFM [L/s]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]
TOTAL MBTUH	0.97	0.97	0.98	0.98	0.99	1.00	1.00	1.01	1.02	1.03	1.03	1.03	1.04
SENSIBLE MBTUH	0.87	0.90	0.92	0.94	0.97	0.99	1.02	1.04	1.06	1.09	1.11	1.14	1.16
POWER kW	0.98	0.98	0.99	0.99	0.99	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

## AIRFLOW PERFORMANCE – 17.5 TON [61.5 kW]–SIDEFLW

Model RLNL-B210 Voltage 208/230, 460, 575 – 3 Phase

Air Flow CFM [L/s]	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]
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM
5600 [26.43]	—	—	—	—	—	589	1627	625	1762	651	1900	676
5800 [27.37]	—	—	—	—	—	605	1719	635	1856	661	1986	685
6000 [28.31]	—	—	—	—	—	621	1822	646	1961	671	2103	695
6200 [29.26]	—	—	—	—	—	607	1797	632	1935	657	2076	681
6400 [30.20]	—	—	—	—	—	619	1919	644	2058	668	2201	692
6600 [31.14]	—	—	—	—	—	607	1912	632	2051	656	2192	679
6800 [32.09]	—	—	—	—	—	620	2052	644	2193	668	2336	691
7000 [33.03]	610	2064	634	2203	667	2345	681	2491	703	2640	726	2791
7200 [33.98]	624	2223	648	2364	671	2508	693	2656	716	2807	738	2960
7400 [34.92]	639	2392	662	2536	684	2682	707	2831	728	3084	750	3139
7600 [35.86]	653	2572	676	2717	688	2866	720	3017	742	3171	763	3229
7800 [36.81]	669	2762	691	2910	713	3060	734	3213	755	3369	775	3529
8000 [37.75]	684	2963	706	3112	727	3264	748	3419	769	3578	789	3759
8200 [38.69]	700	3174	721	3325	742	3479	762	3636	783	3796	802	3960
8400 [39.64]	716	3395	737	3548	757	3704	777	3863	797	4026	816	4191

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

Drive Package	L			M		
	Motor H.P. [W]	3.0 [2237.1]	BK100H	5.0 [3728.5]		
Motor Sheave			BK105H			
Turns Open	1	2	3	4	5	6
RPM	763	731	<b>699</b>	666	633	601

NOTES: 1. Factory sheave settings are shown in bold type.  
2. Do not set motor sheave below minimum turns open shown.

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

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

## COMPONENT AIR RESISTANCE—17.5 TON [61.5 kW]

CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
	Resistance — Inches of Water [kPa]														
Wet Coil	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.11 [.02]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.17 [.05]	0.18 [.05]	0.19 [.06]	0.17 [.06]
Downflow	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.09 [.02]	0.09 [.02]	0.10 [.03]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]
Downflow Economizer	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.14 [.03]	0.15 [.03]	0.16 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]	0.21 [.05]	0.22 [.06]	0.23 [.06]
R.A. Damper Open	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]
Horizontal Economizer	0.02 [.00]	0.03 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]
R.A. Damper Open	0.35 [.09]	0.39 [.10]	0.43 [.11]	0.46 [.11]	0.50 [.11]	0.54 [.13]	0.57 [.13]	0.61 [.14]	0.64 [.14]	0.68 [.16]	0.72 [.17]	0.75 [.18]	0.79 [.19]	0.83 [.20]	0.86 [.21]
Concentric Grill RXRN-AD80 or RXRN-AD81 & Transition RXMC-CJ07	0.14 [.03]	0.17 [.04]	0.20 [.05]	0.23 [.05]	0.26 [.06]	0.29 [.07]	0.32 [.07]	0.35 [.08]	0.38 [.09]	0.41 [.10]	0.44 [.11]	0.47 [.12]	0.50 [.12]	0.53 [.13]	0.56 [.14]
Concentric Grill RXRN-AD86 & Transition RXMC-CK08	0.084 [.02]	0.088 [.02]	0.092 [.02]	0.096 [.02]	0.101 [.02]	0.104 [.02]	0.108 [.02]	0.112 [.03]	0.116 [.03]	0.122 [.03]	0.124 [.03]	0.128 [.03]	0.132 [.03]	0.136 [.03]	0.144 [.03]
Pressure Drop MERV 8	0.034 [.02]	0.040 [.02]	0.046 [.02]	0.052 [.02]	0.058 [.02]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]	0.089 [.02]	0.095 [.02]	0.102 [.02]	0.108 [.02]	0.114 [.02]	0.122 [.03]
Pressure Drop MERV 13															

## AIRFLOW CORRECTION FACTORS—17.5 TON [61.5 kW]

ACTUAL—CFM [L/s]	5600 [2643]	5800 [2737]	6000 [2831]	6200 [2926]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]
TOTAL MBUH	0.96	0.97	0.97	0.98	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.03	1.04
SENSIBLE MBUH	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14
POWER kW	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.02	1.02	1.02

[ ] Designates Metric Conversions

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

**AIRFLOW PERFORMANCE – 20 TON [70.3 kW]-SIDEOFLOW (B240)**

Model RLNL-B240												Voltage 208/230, 460, 575 — 3 Phase												
Air Flow CFM [l/s]	External Static Pressure—Inches of Water [kPa]											External Static Pressure—Inches of Water [kPa]												
	0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.30]	1.3 [.32]	1.4 [.35]	1.5 [.37]	1.6 [.40]	1.7 [.42]	1.8 [.45]	1.9 [.47]	2.0 [.50]				
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	
6400 [3020]	—	—	—	—	—	632	2007	654	2111	676	2218	698	2328	719	2439	741	2553	763	2670	785	2789	810	3065	830
6600 [3115]	—	—	—	—	—	642	2106	664	2217	686	2330	707	2446	729	2564	751	2685	773	2808	798	3060	819	3342	869
6800 [3209]	—	—	—	—	—	630	2100	652	2215	674	2332	696	2452	718	2574	739	2689	761	2826	783	2955	807	3202	827
7000 [3304]	—	—	—	—	—	641	2213	663	2334	684	2458	706	2585	728	2713	750	2844	772	2977	796	3207	816	3352	835
7200 [3398]	—	—	—	—	—	630	2211	651	2336	673	2464	695	2594	717	2727	739	2862	761	2999	783	3159	805	3362	825
7400 [3492]	—	—	—	—	—	641	2338	663	2470	684	2604	706	2741	728	2880	750	3021	772	3165	795	3375	815	3526	834
7600 [3587]	—	—	—	—	—	630	2339	652	2475	674	2613	696	2754	718	2897	740	3043	761	3190	783	3341	805	3545	823
7800 [3881]	—	—	—	—	—	642	2480	664	2822	686	2667	707	2914	729	3064	751	3216	773	3370	795	3567	815	3723	834
8000 [3776]	632	2485	654	2831	676	2780	698	2931	719	3035	741	3241	763	3399	785	3559	806	3750	825	3910	844	4070	882	
8200 [3870]	644	2640	666	2793	688	2948	710	3105	732	3265	754	3427	776	3592	797	3780	816	3942	835	4105	854	4268	871	
8400 [3864]	657	2805	679	2964	701	3126	723	3314	745	3456	767	3625	789	3796	808	3978	827	4143	846	4309	864	4475	881	
8600 [4059]	670	2980	692	3146	714	3314	736	3484	758	3657	780	3832	800	4017	819	4184	838	4352	856	4521	874	4690	897	
8800 [4153]	683	3166	705	3338	727	3512	749	3689	771	3858	793	4059	812	4229	831	4399	849	4570	867	4742	884	4914	901	
9000 [4248]	697	3361	719	3340	741	3721	763	3904	785	4089	805	4276	824	4449	842	4622	860	4796	877	4971	894	5146	911	
9200 [4342]	711	3567	733	3752	755	3839	777	4327	798	4327	817	4502	835	4678	853	4854	871	5031	888	5209	905	5387	921	
9400 [4436]	725	3783	747	3875	769	4168	792	4381	811	4568	829	4736	847	4915	865	5094	882	5274	899	5455	915	5636	931	
9600 [4531]	739	4010	762	4207	784	4407	805	4617	823	4798	842	4979	859	5161	877	5343	894	5536	910	5709	926	5894	937	

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

Drive Package	L	M	N (field installed only)
Motor H.P. [W]	5.0 [3728.5]	7.5 [5592.7]	7.5 [5592.7]
Blower Sheave	BK130H	BK130H	BK120H
Motor Sheave	1VP-56	1VP-71	1VP-71
Turns Open	1	2	3
RPM	756	734	709

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

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

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

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

## COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW] (B240)

CFM [L/s]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]	8600 [4058]	8800 [4153]	9000 [4247]	9200 [4341]	9400 [4436]	9600 [4530]
<b>Resistance — Inches of Water [kPa]</b>																	
<b>Wat Coil</b>	0.00 [.00]	0.00 [.00]	0.00 [.00]	0.01 [.01]	0.01 [.01]	0.02 [.01]	0.02 [.01]	0.03 [.01]	0.04 [.01]	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.01]	
<b>Downflow</b>	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]	
<b>Downflow Economizer</b>	0.15 [.04]	0.16 [.04]	0.16 [.04]	0.17 [.04]	0.17 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]	0.21 [.05]	0.22 [.05]	0.23 [.06]	0.24 [.06]	0.25 [.06]	0.26 [.06]	0.27 [.07]	0.28 [.07]	
<b>R.A. Damper Open</b>	0.04 [.01]	0.05 [.01]	0.05 [.01]	0.06 [.01]	0.06 [.01]	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.09 [.02]	0.09 [.02]	0.10 [.02]	0.10 [.02]	0.11 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	
<b>Horizontal Economizer</b>	0.10 [.02]	0.10 [.02]	0.10 [.02]	0.10 [.03]	0.10 [.03]	0.11 [.03]	0.11 [.03]	0.116 [.03]	0.124 [.03]	0.128 [.03]	0.136 [.03]	0.14 [.03]	0.144 [.03]	0.148 [.03]	0.156 [.04]	0.164 [.04]	
<b>R.A. Damper Open</b>	0.1 [.02]	0.104 [.02]	0.108 [.03]	0.112 [.03]	0.116 [.03]	0.12 [.03]	0.124 [.03]	0.128 [.03]	0.132 [.03]	0.136 [.03]	0.14 [.03]	0.144 [.03]	0.148 [.03]	0.152 [.04]	0.16 [.04]	0.164 [.04]	
<b>Pressure Drop MERV 8</b>	0.058 [.01]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]	0.089 [.02]	0.095 [.02]	0.102 [.02]	0.108 [.02]	0.114 [.03]	0.12 [.03]	0.126 [.03]	0.132 [.03]	0.138 [.03]	0.145 [.04]	0.151 [.04]	
<b>Pressure Drop MERV 13</b>	0.058 [.01]	0.065 [.02]	0.071 [.02]	0.077 [.02]	0.083 [.02]	0.089 [.02]	0.095 [.02]	0.102 [.02]	0.108 [.02]	0.114 [.03]	0.12 [.03]	0.126 [.03]	0.132 [.03]	0.138 [.03]	0.145 [.04]	0.151 [.04]	

## AIRFLOW CORRECTION FACTORS—20 TON [70.3 kW] (B240)

ACTUAL—CFM [L/s]	6400 [3020]	6600 [3114]	6800 [3209]	7000 [3303]	7200 [3398]	7400 [3492]	7600 [3586]	7800 [3681]	8000 [3775]	8200 [3869]	8400 [3964]	8600 [4058]	8800 [4153]	9000 [4247]	9200 [4341]	9400 [4436]	9600 [4530]
<b>TOTAL MBH</b>	0.97	0.98	0.98	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.03	1.04
<b>SENSIBLE MBH</b>	0.88	0.90	0.92	0.94	0.96	0.97	0.99	0.99	1.00	1.00	1.03	1.05	1.07	1.09	1.10	1.12	1.14
<b>POWER kW</b>	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02

[ ] Designates Metric Conversions

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

**AIRFLOW PERFORMANCE – 20 TON [70.3 kW] – 60 Hz – SIDEFLOW (B241)**

Model RLNL-B241      Voltage 208/230, 460, 575 — 3 Phase 60 Hz

Air Flow CFM [L/s]	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]
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM
6400 [3020]	—	—	—	—	—	—	—	685	2,551	707	2,306	729
6600 [3114]	—	—	—	—	—	—	—	698	2,306	720	2,462	741
6800 [3209]	—	—	—	—	—	—	—	690	2,313	712	2,470	733
7000 [3303]	—	—	—	—	—	—	—	682	2,327	704	2,484	725
7200 [3398]	—	—	—	—	—	—	—	696	2,505	717	2,665	738
7400 [3492]	—	—	—	—	—	—	—	689	2,533	710	2,693	731
7600 [3586]	682	2,566	704	2,727	724	2,889	745	3051	765	3214	785	3378
7800 [3681]	697	2,768	718	2,931	739	3,094	759	3,258	779	3,423	798	3,588
8000 [3775]	712	2,979	733	3,143	753	3,308	773	3,473	793	3,640	812	3,806
8200 [3869]	728	3,199	748	3,365	768	3,531	787	3,698	806	3,865	825	4,034
8400 [3964]	743	3,428	763	3,595	782	3,762	802	3,931	820	4,100	839	4,270
8600 [4058]	758	3,665	778	3,834	797	4,003	816	4,173	835	4,343	853	4515
8800 [4153]	774	3,911	793	4,081	812	4,252	830	4,423	849	4,596	867	4,769
9000 [4247]	790	4,166	808	4,338	827	4,510	846	4,683	863	4,857	881	5,031
9200 [4341]	805	4,430	824	4,603	842	4,777	860	4,951	877	5,127	895	5,503
9400 [4436]	821	4,703	839	4,877	857	5,052	875	5,229	892	5,405	909	5,583
9600 [4530]	837	4,984	855	5,160	872	5,337	890	5,514	907	5,693	923	5,872

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

Drive Package	L			M			N (field installed only)		
	Motor H.P. [W]	5.0 [3728.5]		7.5 [5592.7]			7.5 [5592.7]		
Blower Sheave		BK120H			BK130H		BK120H		
Motor Sheave		1VP-56		1VP-71			1VP-71		
Turns Open	1	2	3	4	5	6	1	2	3
RPM	822	798	771	742	712	684	932	905	878

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

**[ ] Designates Metric Conversions**

## COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW] (B241)

Airflow CFM [L/s]	Airflow Correction Factors*	Component Airflow Resistance							
		Wet Coil		Downflow Economizer RA Damper Open		Horizontal Economizer RA Damper Open		Concentric Grill RXRN-AD80 or RXHN-AD81 & Transition RXMC-CJ07	
		Total MBH	Sensible MBH	Power kW				Concentric Grill RXRN-AD86 & Transition RXMC-CK08	Concentric Grill RXRN-AD88 & Transition RXMC-CL09
6400 [3020]	0.97	0.88	0.98	0.01 [.00]	0.06 [.01]	0.15 [.04]	0.04 [.01]	0.50 [.12]	—
6600 [3114]	0.97	0.90	0.99	0.02 [.00]	0.06 [.01]	0.16 [.04]	0.05 [.01]	0.54 [.13]	—
6800 [3209]	0.98	0.92	0.99	0.03 [.01]	0.07 [.02]	0.16 [.04]	0.05 [.01]	—	—
7000 [3303]	0.98	0.94	0.99	0.03 [.01]	0.08 [.02]	0.17 [.04]	0.06 [.01]	—	—
7200 [3398]	0.99	0.96	0.99	0.04 [.01]	0.08 [.02]	0.18 [.04]	0.06 [.01]	—	0.116 [.09]
7400 [3492]	0.99	0.97	1.00	0.05 [.01]	0.09 [.02]	0.19 [.05]	0.07 [.02]	—	0.120 [.10]
7600 [3586]	1.00	0.99	1.00	0.06 [.01]	0.10 [.02]	0.20 [.05]	0.07 [.02]	—	0.124 [.11]
7800 [3581]	1.00	1.01	1.00	0.06 [.01]	0.11 [.03]	0.21 [.05]	0.08 [.02]	—	0.128 [.12]
8000 [3775]	1.01	1.03	1.00	0.07 [.02]	0.12 [.03]	0.22 [.05]	0.09 [.02]	—	0.132 [.12]
8200 [3869]	1.01	1.05	1.01	0.08 [.02]	0.13 [.03]	0.23 [.06]	0.09 [.02]	—	0.136 [.13]
8400 [3964]	1.02	1.07	1.01	0.09 [.02]	0.14 [.03]	0.24 [.06]	0.10 [.02]	—	0.140 [.14]
8600 [4058]	1.02	1.09	1.01	0.09 [.02]	0.15 [.04]	0.25 [.06]	0.10 [.02]	—	0.144 [.15]
8800 [4153]	1.03	1.10	1.01	0.10 [.02]	0.16 [.04]	0.26 [.06]	0.11 [.03]	—	0.148 [.15]
9000 [4247]	1.03	1.12	1.01	0.11 [.03]	0.18 [.04]	0.27 [.07]	0.11 [.03]	—	0.152 [.14]
9200 [4341]	1.03	1.14	1.02	0.12 [.03]	0.19 [.05]	0.28 [.07]	0.12 [.03]	—	0.156 [.14]
9400 [4436]	1.04	1.16	1.02	0.12 [.03]	0.20 [.05]	0.29 [.07]	0.12 [.03]	—	0.160 [.14]
9600 [4530]	1.04	1.18	1.02	0.13 [.03]	0.22 [.05]	0.30 [.07]	0.13 [.03]	—	0.164 [.04]
									0.160 [.04]

[ ] Designates Metric Conversions

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

## AIRFLOW PERFORMANCE – 25 TON [87.9 kW]-SIDEFLOW

Model RLNL-B300      Voltage 208/230, 460, 575 — 3 Phase

Air Flow CFM [l/s]	External Static Pressure—Inches of Water [kPa]											
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM
8000 [3775]	—	—	—	—	—	—	—	869	4024	851	4182	886
8200 [3869]	—	—	—	—	—	—	—	870	4024	851	4344	886
8400 [3964]	—	—	—	—	—	—	—	877	3508	826	4065	863
8600 [4058]	—	—	—	—	—	—	—	801	3947	820	4108	823
8800 [4153]	—	—	—	—	—	—	—	794	3989	813	4153	832
9000 [4247]	—	—	—	—	—	—	—	807	4200	826	4371	845
9200 [4341]	—	—	—	—	—	—	—	801	4249	820	4424	839
9400 [4436]	—	—	—	—	—	—	—	795	4300	815	4478	851
9600 [4530]	—	—	—	—	—	—	—	790	4352	809	4534	828
9800 [4624]	—	—	—	—	—	—	—	804	4592	823	4781	841
10000 [4719]	—	—	—	—	—	—	—	813	4910	816	4910	864
10200 [4803]	—	—	—	—	—	—	—	815	4978	827	5181	845
10400 [4908]	—	—	—	—	—	—	—	822	5054	840	5465	858
10600 [5002]	—	—	—	—	—	—	—	836	5343	854	5761	872
10800 [5096]	850	5845	868	6071	885	6301	902	6534	918	6772	946	7074
11000 [5191]	864	6160	882	6393	899	6630	915	6871	943	7191	958	7415
11200 [5285]	878	6487	895	6728	912	6972	940	7313	985	7541	969	7771
11400 [5379]	892	6627	909	7075	925	7329	952	7671	967	7905	981	8140
11600 [5474]	906	7810	922	7436	950	7806	964	8044	979	8233	984	8524
11800 [5568]	920	7546	948	7944	962	8187	977	8431	991	8676	1006	9168
12000 [5663]	946	8087	960	8334	975	8563	989	8832	1004	9062	1019	9333

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

Drive Package	L	M
Motor H.P. [W]	7.5 [5692.7]	10 [7457.0]
Blower Sheave	BK130H	BK120H
Motor Sheave	1VP-71	1VP-75
Turns Open	1	2
RPM	919	894

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

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

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

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

## COMPONENT AIR RESISTANCE—25 TON [87.9 kW]

CFM [L/s]	8000 [3775]	8400 [3964]	8800 [4153]	9200 [4341]	9600 [4530]	10000 [4719]	10400 [4908]	10800 [5096]	11200 [5285]	11600 [5474]	12000 [5663]
<b>Resistance — Inches of Water [kPa]</b>											
Wet Coil	0.07 [.02]	0.09 [.02]	0.10 [.03]	0.12 [.04]	0.13 [.05]	0.15 [.06]	0.16 [.07]	0.18 [.08]	0.19 [.09]	0.21 [.10]	0.22 [.11]
Downflow	0.12 [.03]	0.14 [.03]	0.16 [.04]	0.19 [.05]	0.22 [.05]	0.25 [.06]	0.29 [.07]	0.33 [.08]	0.37 [.09]	0.42 [.10]	0.46 [.11]
Downflow Economizer	0.22 [.05]	0.24 [.06]	0.26 [.07]	0.28 [.07]	0.30 [.08]	0.32 [.08]	0.34 [.09]	0.37 [.09]	0.39 [.10]	0.41 [.10]	0.44 [.11]
R.A. Damper Open	0.09 [.02]	0.10 [.02]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]	0.19 [.05]
Horizontal Economizer	0.17 [.04]	0.23 [.06]	0.30 [.07]	0.36 [.09]	0.43 [.11]	0.50 [.12]	0.56 [.14]	0.63 [.16]	0.69 [.17]	0.76 [.19]	0.82 [.20]
R.A. Damper Open	0.132 [.031]	0.14 [.03]	0.148 [.04]	0.156 [.04]	0.164 [.04]	0.172 [.04]	0.178 [.04]	0.188 [.05]	0.196 [.05]	0.204 [.05]	0.212 [.05]
Concentric Grill RXRN-AD88 & Transition RXMC-C09	0.108 [.031]	0.12 [.03]	0.132 [.03]	0.145 [.04]	0.157 [.04]	0.169 [.04]	0.182 [.04]	0.194 [.05]	0.206 [.05]	0.219 [.05]	0.231 [.06]
Pressure Drop MERV 8	0.09 [.02]	0.09 [.03]	0.09 [.03]	0.09 [.03]	0.09 [.03]	0.09 [.03]	0.09 [.04]	0.09 [.04]	0.09 [.05]	0.09 [.05]	0.09 [.06]
Pressure Drop MERV 13	0.09 [.02]	0.09 [.03]	0.09 [.03]	0.09 [.03]	0.09 [.03]	0.09 [.04]	0.09 [.04]	0.09 [.05]	0.09 [.05]	0.09 [.05]	0.09 [.06]

## AIRFLOW CORRECTION FACTORS—25 TON [87.9 kW]

ACTUAL—CFM [L/s]	8000 [3775]	8400 [3964]	8800 [4153]	9200 [4341]	9600 [4530]	10000 [4719]	10400 [4908]	10800 [5096]	11200 [5285]	11600 [5474]	12000 [5663]
<b>TOTAL MBTUH</b>	0.97	0.98	0.99	0.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05
<b>SENSIBLE MBTUH</b>	0.89	0.92	0.95	0.98	1.01	1.04	1.08	1.11	1.14	1.17	1.20
<b>POWER kW</b>	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02

NOTES: Multiply correction factor times gross performance data—resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

ELECTRICAL DATA – RLNL- SERIES										
		B180CL	B180CM	B180DL	B180DM	B180YL	B180YM	B210CL	B210CM	B210DL
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632	187-253	187-253	414-506
	Volts	208/230	208/230	460	460	575	575	208/230	208/230	460
	Minimum Circuit Ampacity	78/78	81/81	38	40	28	30	88/88	91/91	44
	Minimum Overcurrent Protection Device Size	90/90	90/90	45	45	30	35	100/100	100/100	50
	Maximum Overcurrent Protection Device Size	100/100	100/100	45	50	35	35	110/110	110/110	50
Compressor Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575	200/230	200/230	460
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7	7	7	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	25/25	25/25	12.2	12.2	9	9	29.5/29.5	29.5/29.5	14.7
	Amps (LRA), Comp. 1	164/164	164/164	100	100	78	78	195/195	195/195	95
	HP, Compressor 2	7	7	7	7	7	7	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	25/25	25/25	12.2	12.2	9	9	29.5/29.5	29.5/29.5	14.7
	Amps (LRA), Comp. 2	164/164	164/164	100	100	78	78	195/195	195/195	95
Condenser Motor	No.	4	4	4	4	4	4	4	4	4
	Volts	208/230	208/230	460	460	575	575	208/230	208/230	460
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1	2.4/2.4	2.4/2.4	1.4
	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.8	1.8	4.7/4.7	4.7/4.7	2.4
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575	208/230	208/230	460
	Phase	3	3	3	3	3	3	3	3	3
	HP	3	5	3	5	3	5	3	5	3
	Amps (FLA, each)	11.5/11.5	14.9/14.9	4.6	6.6	3.5	5.3	11.5/11.5	14.9/14.9	4.6
	Amps (LRA, each)	74.5/74.5	82.6/82.6	38.1	46.3	20	39.4	74.5/74.5	82.6/82.6	38.1

ELECTRICAL DATA – RLNL- SERIES									
	B210DM	B210YL	B210YM	B240CL	B240CM	B240CN	B240DL	B240DM	B240DN
Unit Information	Unit Operating Voltage Range	414-506	518-632	518-632	187-253	187-253	187-253	414-506	414-506
	Volts	460	575	575	208/230	208/230	208/230	460	460
	Minimum Circuit Ampacity	46	35	37	101/101	109/109	109/109	52	56
	Minimum Overcurrent Protection Device Size	50	40	40	110/110	125/125	125/125	60	60
	Maximum Overcurrent Protection Device Size	50	45	45	125/125	125/125	125/125	60	70
Compressor Motor	No.	2	2	2	2	2	2	2	2
	Volts	460	575	575	200/230	200/230	200/230	460	460
	Phase	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	10	10	10	10	10
	Amps (RLA), Comp. 1	14.7	12.2	12.2	33.3/33.3	33.3/33.3	33.3/33.3	17.9	17.9
	Amps (LRA), Comp. 1	95	80	80	239/239	239/239	239/239	125	125
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	14.7	12.2	12.2	29.5/29.5	29.5/29.5	29.5/29.5	14.7	14.7
	Amps (LRA), Comp. 2	95	80	80	195/195	195/195	195/195	95	95
Condenser Motor	No.	4	4	4	6	6	6	6	6
	Volts	460	575	575	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1.4	1	1	2.4/2.4	2.4/2.4	2.4/2.4	1.4	1.4
	Amps (LRA, each)	2.4	1.8	1.8	4.7/4.7	4.7/4.7	4.7/4.7	2.4	2.4
Evaporator Fan	No.	1	1	1	1	1	1	1	1
	Volts	460	575	575	208/230	208/230	208/230	460	460
	Phase	3	3	3	3	3	3	3	3
	HP	5	3	5	5	7 1/2	7 1/2	5	7 1/2
	Amps (FLA, each)	6.6	3.5	5.3	14.9/14.9	23.1/23.1	23.1/23.1	6.6	9.6
	Amps (LRA, each)	46.3	20	39.4	82.6/82.6	136/136	136/136	46.3	67

<b>ELECTRICAL DATA – RLNL- SERIES</b>				
		B240YL	B240YM	B240YN
<b>Unit Information</b>	Unit Operating Voltage Range	518-632	518-632	518-632
	Volts	575	575	575
	Minimum Circuit Ampacity	40	42	42
	Minimum Overcurrent Protection Device Size	45	50	50
	Maximum Overcurrent Protection Device Size	50	50	50
<b>Compressor Motor</b>	No.	2	2	2
	Volts	575	575	575
	Phase	3	3	3
	RPM	3450	3450	3450
	HP, Compressor 1	10	10	10
	Amps (RLA), Comp. 1	12.8	12.8	12.8
	Amps (LRA), Comp. 1	80	80	80
	HP, Compressor 2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	12.2	12.2	12.2
	Amps (LRA), Comp. 2	80	80	80
<b>Condenser Motor</b>	No.	6	6	6
	Volts	575	575	575
	Phase	1	1	1
	HP	1/3	1/3	1/3
	Amps (FLA, each)	1	1	1
	Amps (LRA, each)	1.8	1.8	1.8
<b>Evaporator Fan</b>	No.	1	1	1
	Volts	575	575	575
	Phase	3	3	3
	HP	5	7 1/2	7 1/2
	Amps (FLA, each)	5.3	7.8	7.8
	Amps (LRA, each)	39.4	53.8	53.8

### ELECTRICAL DATA – RLNL- SERIES

		B241CL	B241CM	B241DL	B241DM	B241YL	B241YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	95/95	103/103	49	52	37	39
	Minimum Overcurrent Protection Device Size	110/110	125/125	60	60	40	45
	Maximum Overcurrent Protection Device Size	110/110	125/125	60	60	45	50
Compressor Motor	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	30.1/30.1	30.1/30.1	16.7	16.7	12.2	12.2
	Amps (LRA), Comp. 1	225/225	225/225	114	114	80	80
	HP, Compressor 2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 2	27.6/27.6	27.6/27.6	12.8	12.8	9.6	9.6
	Amps (LRA), Comp. 2	191/191	191/191	100	100	78	78
Compressor Motor	No.	6	6	6	6	6	6
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2.4/2.4	1.4	1.4	1	1
	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.8	1.8
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	5	7 1/2	5	7 1/2	5	7 1/2
	Amps (FLA, each)	14.7/14.7	23.1/23.1	6.6	9.6	5.3	7.8
	Amps (LRA, each)	82.6/82.6	136/136	46.3	67	39.4	53.8

ELECTRICAL DATA – RLNL- SERIES						
	B300CL	B300CM	B300DL	B300DM	B300YL	B300YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632
	Volts	208/230	208/230	460	460	575
	Minimum Circuit Ampacity	147/147	149/149	60	63	50
	Minimum Overcurrent Protection Device Size	175/175	175/175	70	70	60
	Maximum Overcurrent Protection Device Size	175/175	175/175	70	80	60
Compressor Motor	No.	2	2	2	2	2
	Volts	200/240	200/240	460	460	575
	Phase	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450
	HP, Compressor 1	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 1	48.1/48.1	48.1/48.1	18.6	18.6	14.7
	Amps (LRA), Comp. 1	245/245	245/245	125	125	100
	HP, Compressor 2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
	Amps (RLA), Comp. 2	48.1/48.1	48.1/48.1	18.6	18.6	14.7
	Amps (LRA), Comp. 2	245/245	245/245	125	125	100
Condenser Motor	No.	6	6	6	6	6
	Volts	208/230	208/230	460	460	575
	Phase	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4/2.4	2/2	1.4	1.4	1
	Amps (LRA, each)	4.7/4.7	3.9/3.9	2.4	2.4	1.8
Evaporator Fan	No.	1	1	1	1	1
	Volts	208/230	208/230	460	460	575
	Phase	3	3	3	3	3
	HP	7 1/2	10	7 1/2	10	7 1/2
	Amps (FLA, each)	24.2/24.2	28.5/28.5	9.6	12.5	7.8
	Amps (LRA, each)	136/136	178/178	67	74.6	53.8

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

Model No. RLNL-	Single Power Supply for Both Unit and Heater Kit							Separate Power Supply for Both Unit and Heater Kit						
	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner				
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240V	Heater kBTU/Hr @ 208/240V	Heater Amps @ 208/240V	Unit Min. Ckt. Ampacity @ 208/240V	Unit Max. Ckt. Ampacity @ 208/240V	Over Current Protective Device Size 208V	Over Current Protective Device Size 208V	Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Max. Fuse Size 208V	Over Current Protective Device Size 208V
B180CL	No Heat	—	—	49.13/65.5	—	78/78	90/100	—	—	50/58	50/60	78/78	90/100	90/100
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	78/78	90/100	90/100	125/125	100/116	100/125	—	—	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	115/130	125/125	150/150	200/200	150/173	150/175	—	—	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	165/188	175/175	200/225	250/250	188/217	200/225	—	—	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	202/231	225/225	250/250	250/250	188/217	200/225	—	—	—
B210CL	No Heat	—	—	49.13/65.5	—	88/88	100/110	100/110	125/125	100/110	100/110	—	88/88	100/110
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	88/88	100/110	100/110	125/125	100/110	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	115/130	125/125	150/150	200/200	150/173	150/175	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	165/188	175/175	200/200	250/250	188/217	200/225	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	202/231	225/225	250/250	250/250	188/217	200/225	—	—	—
B240CL	No Heat	—	—	49.13/65.5	—	101/101	110/125	110/125	125/125	100/110	100/110	—	101/101	110/125
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	101/101	110/125	110/125	125/125	100/110	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	119/134	125/125	150/150	200/200	150/173	150/175	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	169/192	175/175	200/200	250/250	188/217	200/225	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	206/235	225/225	250/250	250/250	188/217	200/225	—	—	—
B240CM	No Heat	—	—	49.13/65.5	—	81/81	90/100	90/100	100/100	—	—	—	81/81	90/100
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	81/81	90/100	90/100	100/100	125/125	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	119/134	125/125	150/150	200/200	150/173	150/175	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	169/192	175/175	200/200	250/250	188/217	200/225	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	206/235	225/225	250/250	250/250	188/217	200/225	—	—	—
B180CM	No Heat	—	—	49.13/65.5	—	91/91	100/110	100/110	125/125	100/110	100/110	—	91/91	100/110
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	91/91	100/110	100/110	125/125	100/110	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	119/134	125/125	150/150	200/200	150/173	150/175	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	169/192	175/175	200/200	250/250	188/217	200/225	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	206/235	225/225	250/250	250/250	188/217	200/225	—	—	—
B210CM	No Heat	—	—	49.13/65.5	—	109/109	125/125	125/125	125/125	—	—	—	109/109	125/125
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	109/109	125/125	125/125	125/125	100/110	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	129/145	150/150	150/150	150/150	125/125	125/125	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	179/202	200/200	225/225	225/225	175/173	175/173	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	217/245	225/225	250/250	250/250	188/217	200/225	—	—	—
B240CM	No Heat	—	—	49.13/65.5	—	109/109	125/125	125/125	125/125	—	—	—	109/109	125/125
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	109/109	125/125	125/125	125/125	100/110	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	129/145	150/150	150/150	150/150	125/125	125/125	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	179/202	200/200	225/225	225/225	175/173	175/173	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	217/245	225/225	250/250	250/250	188/217	200/225	—	—	—
B240CN	No Heat	—	—	49.13/65.5	—	109/109	125/125	125/125	125/125	—	—	—	109/109	125/125
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	109/109	125/125	125/125	125/125	100/110	100/110	50/58	50/60	—
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	129/145	150/150	150/150	150/150	125/125	125/125	100/116	100/125	—
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	179/202	200/200	225/225	225/225	175/173	175/173	150/173	150/175	—
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	217/245	225/225	250/250	250/250	188/217	200/225	—	—	—

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+ = Field installed only.

208/240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION										
Single Power Supply for Both Unit and Heater Kit										
Model No. RLNL-	Heater Kit				Air Conditioner				Separate Power Supply for Both Unit and Heater Kit	
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240V	Heater kBtuHr @ 208/240V	Heater Amps @ 208/240V	Unit Min. Ckt. Ampacity @ 208/240V	Over Current Protective Device Size 208V	Min./Max. 240V	Min. Circuit Ampacity 208/240V	Air Conditioner
B300CL	No Heat CE20C CE40C CE60C CE75C	— 1 2 2 2	— 14.4/19.2 28.8/38.3 43.2/57.5 54/71.9	— 49.13/65.5 98.25/130.66 147.38/196.16 184.22/245.29	— 40/46.2 79.9/92.2 119.9/138.3 149.8/172.8	147/147 147/147 147/147 181/204 218/247	175/175 175/175 175/175 200/200 225/225	— 50/58 100/116 150/173 188/217	— 50/60 100/125 150/175 200/225	147/147 147/147 147/147 188/217 200/225
B300CM	No Heat CE20C CE40C CE60C CE75C	— 1 2 2 2	— 14.4/19.2 28.8/38.3 43.2/57.5 54/71.9	— 49.13/65.5 98.25/130.66 147.38/196.16 184.22/245.29	— 40/46.2 79.9/92.2 119.9/138.3 149.8/172.8	149/149 149/149 149/151 186/209 223/252	175/175 175/175 175/175 200/200 225/225	— 50/58 100/116 150/173 188/217 200/225	— 50/60 100/125 150/175 200/225	149/149 149/149 149/151 186/209 223/252

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+ = Field installed only.

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

Model No. RLNL-	Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit					
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480V	Heater kBTU/Hr @ 480V	Heater Amps @ 480V	Unit Min. Ckt. Ampacity @ 480V	Air Conditioner		Heater Kit		Air Conditioner	
							Min. Ckt. Ampacity 480V	Max. Ckt. Ampacity 480V	Min. Current Device Size 480V	Max. Current Device Size 480V	Min. Circuit Ampacity 480V	Max. Fuse Size 480V
B180DL	No Heat	—	—	65.5	23.1	38	45/45	—	—	30	—	38
	CE20D	1	19.2	65.5	46.2	38	45/45	—	29	60	—	—
	CE40D	2	38.4	131	196.5	64	70/70	—	58	90	—	—
	CE60D	2	57.6	245.63	86.6	93	100/100	—	87	110	—	—
B210DL	No Heat	—	—	—	—	44	50/50	—	—	—	44	50/50
	CE20D	1	19.2	65.5	23.1	44	50/50	—	29	30	—	—
	CE40D	2	38.4	131	46.2	64	70/70	—	58	60	—	—
	CE60D	2	57.6	196.5	69.3	93	100/100	—	87	90	—	—
B240DL	No Heat	—	—	65.5	23.1	44	50/50	—	29	30	—	—
	CE20D	1	19.2	65.5	46.2	64	70/70	—	58	60	—	—
	CE40D	2	38.4	131	196.5	93	100/100	—	87	90	—	—
	CE60D	2	57.6	245.63	86.6	114	125/125	—	109	110	—	—
B180DM	No Heat	—	—	—	—	52	60/60	—	—	—	52	60/60
	CE20D	1	19.2	65.5	23.1	52	60/60	—	29	30	—	—
	CE40D	2	38.4	131	46.2	67	70/70	—	58	60	—	—
	CE60D	2	57.6	196.5	69.3	95	100/100	—	87	90	—	—
B240DM	No Heat	—	—	65.5	23.1	40	45/50	—	—	—	40	45/50
	CE20D	1	19.2	65.5	46.2	40	45/50	—	29	30	—	—
	CE40D	2	38.4	131	196.5	67	70/70	—	58	60	—	—
	CE60D	2	57.6	245.63	86.6	117	125/125	—	109	110	—	—
B180DM	No Heat	—	—	—	—	40	45/50	—	—	—	40	45/50
	CE20D	1	19.2	65.5	23.1	40	45/50	—	29	30	—	—
	CE40D	2	38.4	131	46.2	67	70/70	—	58	60	—	—
	CE60D	2	57.6	196.5	69.3	95	100/100	—	87	90	—	—
B240DM	No Heat	—	—	65.5	23.1	46	50/50	—	—	—	46	50/50
	CE20D	1	19.2	65.5	46.2	46	50/50	—	29	30	—	—
	CE40D	2	38.4	131	196.5	67	70/70	—	58	60	—	—
	CE60D	2	57.6	245.63	86.6	95	100/100	—	87	90	—	—
B240DN	No Heat	—	—	65.5	23.1	56	60/70	—	—	—	56	60/70
	CE20D	1	19.2	65.5	23.1	56	60/70	—	29	30	—	—
	CE40D	2	38.4	131	46.2	70	70/70	—	58	60	—	—
	CE60D	2	57.6	196.5	69.3	99	100/100	—	87	90	—	—
B240DN	No Heat	—	—	65.5	23.1	56	60/70	—	—	—	56	60/70
	CE20D	1	19.2	65.5	46.2	70	70/70	—	29	30	—	—
	CE40D	2	38.4	131	196.5	99	100/100	—	58	60	—	—
	CE60D	2	57.6	245.63	86.6	121	125/125	—	109	110	—	—
B240DN	No Heat	—	—	—	—	56	60/70	—	—	—	56	60/70
	CE20D	1	19.2	65.5	23.1	56	60/70	—	29	30	—	—
	CE40D	2	38.4	131	46.2	70	70/70	—	58	60	—	—
	CE60D	2	57.6	196.5	69.3	99	100/100	—	87	90	—	—
B240DN	No Heat	—	—	65.5	23.1	56	60/70	—	—	—	56	60/70
	CE20D	1	19.2	65.5	46.2	70	70/70	—	29	30	—	—
	CE40D	2	38.4	131	196.5	99	100/100	—	58	60	—	—
	CE60D	2	57.6	245.63	86.6	121	125/125	—	109	110	—	—

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+ = Field installed only.

480 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION										
Single Power Supply for Both Unit and Heater Kit					Separate Power Supply for Both Unit and Heater Kit					
Model No. RLNL-	Heater Kit		Air Conditioner			Heater Kit			Air Conditioner	
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480V	Heater kBTU/Hr @ 480V	Heater Amps @ 480V	Unit Min. Ckt. Ampacity @ 480V	Over Current Protective Device Size Min./Max. 480V	Min. Ckt. Ampacity 480V	Over Current Protective Device Size Min./Max. 480V	
B300DL	No Heat CE200 CE400 CE600 CE750	— 1 2 2 2	— 19.2 38.4 57.6 72	— 65.5 131 196.5 245.63	— 23.1 46.2 69.3 86.6	60 60 70 99 121	70/70 70/70 70/70 100/100 125/125	— 29 58 87 109	— 30 60 90 110	60 — — — —
B300DM	No Heat CE200 CE400 CE600 CE750	— 1 2 2 2	— 19.2 38.4 57.6 72	— 65.5 131 196.5 245.63	— 23.1 46.2 69.3 86.6	63 63 74 103 124	70/80 70/80 80/80 110/110 125/125	— 29 58 87 109	— 30 60 90 110	63 — — — —

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600 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Model No. RLNL-	Single Power Supply for Both Unit and Heater Kit					Separate Power Supply for Both Unit and Heater Kit				
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 600V	Heater kBTU/Hr @ 600V	Heater Amps @ 600V	Air Conditioner		Heater Kit		
						Unit Min. Ckt. Ampacity @ 600V	Over Current Protective Device Size Min./Max. 600V	Min. Ckt. Ampacity 600V	Max. Fuse Size 600V	Min. Circuit Ampacity 600V
B180YL	No Heat	—	—	—	—	28	30/35	—	—	28
	CE20Y	1	19.2	65.5	18.5	28	30/35	—	25	—
	CE40Y	2	38.4	131	37	51	60/60	—	50	—
	CE60Y	2	57.6	196.5	55.4	74	80/80	—	70	—
B210YL	No Heat	—	—	—	—	92	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	35	40/45	—	24	—
	CE40Y	2	38.4	131	37	51	60/60	—	47	—
	CE60Y	2	57.6	196.5	55.4	74	80/80	—	70	—
B240YL	No Heat	—	—	—	—	92	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	40	45/50	—	—	—
	CE40Y	2	38.4	131	37	53	60/60	—	24	—
	CE60Y	2	57.6	196.5	55.4	76	80/80	—	47	—
B180YM	No Heat	—	—	—	—	94	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	30	35/35	—	—	—
	CE40Y	2	38.4	131	37	53	60/60	—	24	—
	CE60Y	2	57.6	196.5	55.4	76	80/80	—	47	—
B210YM	No Heat	—	—	—	—	94	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	37	40/45	—	—	—
	CE40Y	2	38.4	131	37	53	60/60	—	24	—
	CE60Y	2	57.6	196.5	55.4	76	80/80	—	47	—
B240YM	No Heat	—	—	—	—	94	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	42	50/50	—	—	—
	CE40Y	2	38.4	131	37	56	60/60	—	24	—
	CE60Y	2	57.6	196.5	55.4	80	80/80	—	47	—
B240YN	No Heat	—	—	—	—	97	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	42	50/50	—	—	—
	CE40Y	2	38.4	131	37	56	60/60	—	24	—
	CE60Y	2	57.6	196.5	55.4	80	80/80	—	47	—
B240YN	No Heat	—	—	—	—	97	100/100	—	87	90
	CE20Y	1	19.2	65.5	18.5	42	50/50	—	—	—
	CE40Y	2	38.4	131	37	56	60/60	—	24	—
	CE60Y	2	57.6	196.5	55.4	80	80/80	—	47	—

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600 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION										
Single Power Supply for Both Unit and Heater Kit										
Model No. RLNL-	Heater Kit				Air Conditioner				Separate Power Supply for Both Unit and Heater Kit	
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 600V	Heater kBTU/Hr @ 600V	Heater Amps @ 600V	Unit Min. Ckt. Ampacity @ 600V	Unit Max. Ckt. Ampacity @ 600V	Over Current Protective Device Size Min./Max. 600V	Heater Kit	Air Conditioner
B300YLL	No Heat CE20Y CE40Y CE60Y CE75Y	— 1 2 2 2	— 19.2 38.4 57.6 72	— 65.5 131 196.5 245.63	— 18.5 37 55.4 69.3	47 47 56 80 97	60/60 60/60 60/60 80/80 100/100	— — — — —	— 24 47 70 87	— 25 50 70 90
B300YLM	No Heat CE20Y CE40Y CE60Y CE75Y	— 1 2 2 2	— 19.2 38.4 57.6 72	— 65.5 131 196.5 245.63	— 18.5 37 55.4 69.3	50 50 59 82 100	60/60 60/60 60/60 90/90 100/100	— 24 47 70 87	— 25 50 70 90	— 50 — — —

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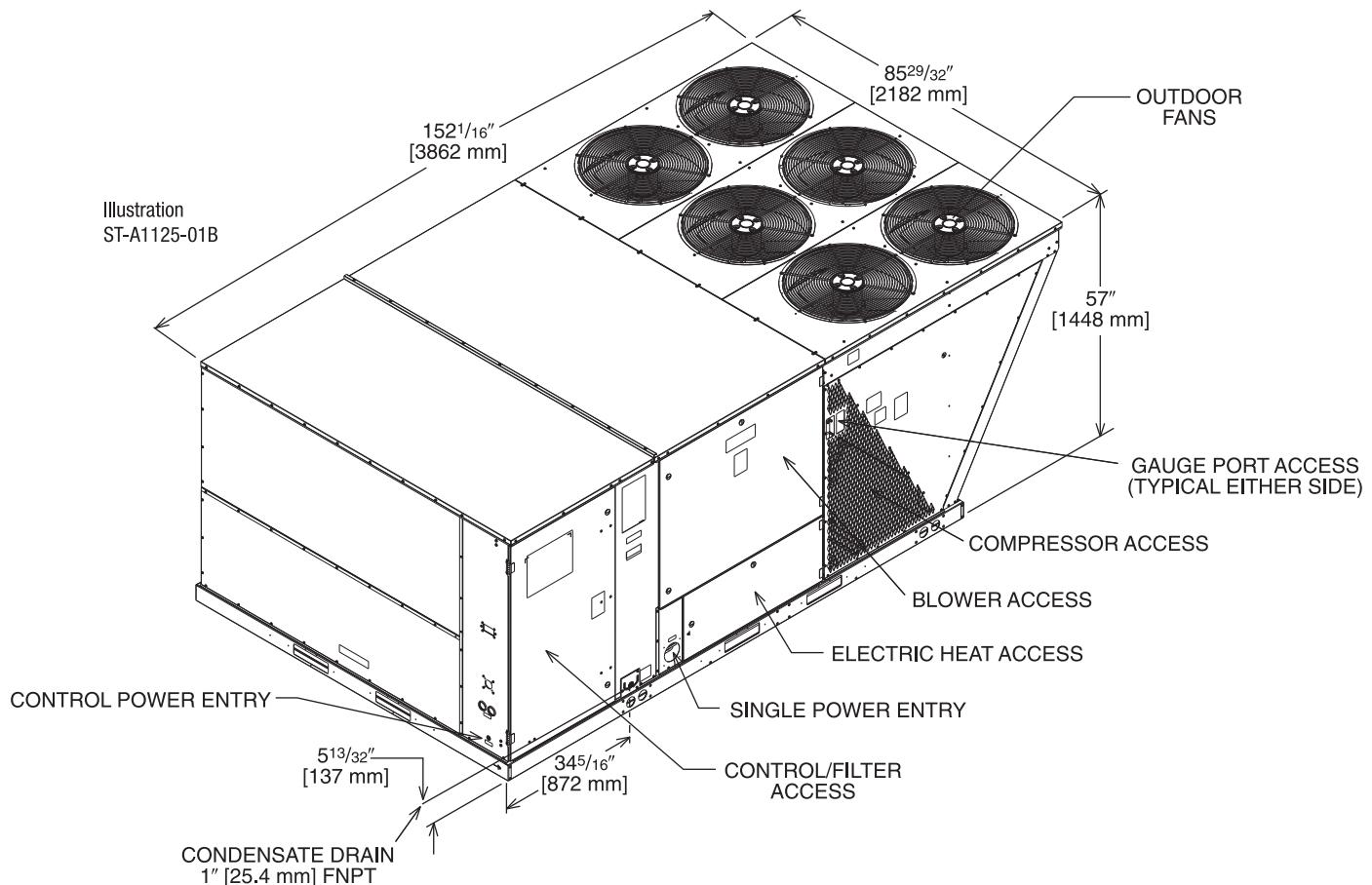
208/240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Model No. RLRL-	Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit					
	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner		
	RXJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240V	Heater kBTU/Hr @ 208/240V	Unit Min. Ckt. Ampacity @ 208/240V	Protective Device Size Min./Max. 208V	Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Min./Max. 208V	Over Current Protective Device Size Min./Max. 240V	Over Current Protective Device Size Min./Max. 240V
C241CL	No Heat	—	—	—	95/95	110/110	—	—	95/95	110/110	110/110	110/110
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	95/95	110/110	50/58	50/60	95/95	110/110	110/110
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	119/134	125/125	100/116	100/125	95/95	110/110	110/110
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	169/192	175/175	150/200	150/173	150/175	110/110	110/110
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	206/235	225/225	250/250	188/217	200/225	95/95	110/110
C241CM	No Heat	—	—	—	103/103	125/125	125/125	—	—	103/103	125/125	125/125
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	103/103	125/125	50/58	50/60	103/103	125/125	125/125
	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	129/145	150/150	100/116	100/125	103/103	125/125	125/125
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	179/202	200/200	225/225	150/173	150/175	103/103	125/125
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	217/245	225/225	250/250	188/217	200/225	103/103	125/125

480 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION									
	Single Power Supply for Both Unit and Heater Kit					Separate Power Supply for Both Unit and Heater Kit			
	Heater Kit				Air Conditioner				Air Conditioner
Model No. RLRL-	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480V	Heater kBtu/Hr @ 480V	Unit Min. Ckt. Ampacity @ 480V	Unit Min. Ckt. Ampacity @ 480V	Over Current Protective Device Size Min./Max. 480V	Min. Ckt. Ampacity 480V	Over Current Protective Device Size Min./Max. 480V
					49	49	60/60	—	49
C241DL	No Heat	—	—	—	—	—	60/60	—	—
	CE20D	1	19.2	65.5	23.1	49	60/60	29	30
	CE40D	2	38.4	131	46.2	67	70/70	58	60
	CE60D	2	57.6	196.5	69.3	95	100/100	87	90
	CE75D	2	72	245.63	86.6	117	125/125	109	110
C241DM	No Heat	—	—	—	—	—	60/60	—	—
	CE20D	1	19.2	65.5	23.1	52	60/60	29	30
	CE40D	2	38.4	131	46.2	70	70/70	58	60
	CE60D	2	57.6	196.5	69.3	99	100/100	87	90
	CE75D	2	72	245.63	86.6	121	125/125	109	110

600 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Model No. RLRL-	Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit					
	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner		
	RXJJ Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 600V	Heater kBTU/Hr @ 600V	Heater Amps @ 600V	Unit Min. Ckt. Ampacity @ 600V	Over Current Protective Device Size Min./Max. 600V	Min. Ckt. Ampacity 600V	Max. Fuse Size 600V	Min. Circuit Ampacity 600V	Over Current Protective Device Size Min./Max. 600V	
C241YL	No Heat	—	—	—	—	37	40/45	—	—	24	25	37
	CE20Y	1	19.2	65.5	18.5	37	40/45	—	—	47	50	—
	CE40Y	2	38.4	131	37	53	60/60	—	—	70	70	—
	CE60Y	2	57.6	196.5	55.4	76	80/80	—	—	87	90	—
	CE75Y	2	72	245.63	69.3	94	100/100	—	—	87	90	—
C241YM	No Heat	—	—	—	—	39	45/50	—	—	24	25	39
	CE20Y	1	19.2	65.5	18.5	39	45/50	—	—	47	50	—
	CE40Y	2	38.4	131	37	57	60/60	—	—	70	70	—
	CE60Y	2	57.6	196.5	55.4	80	80/80	—	—	87	90	—
	CE75Y	2	72	245.63	69.3	97	100/100	—	—	87	90	—



### BOTTOM VIEW

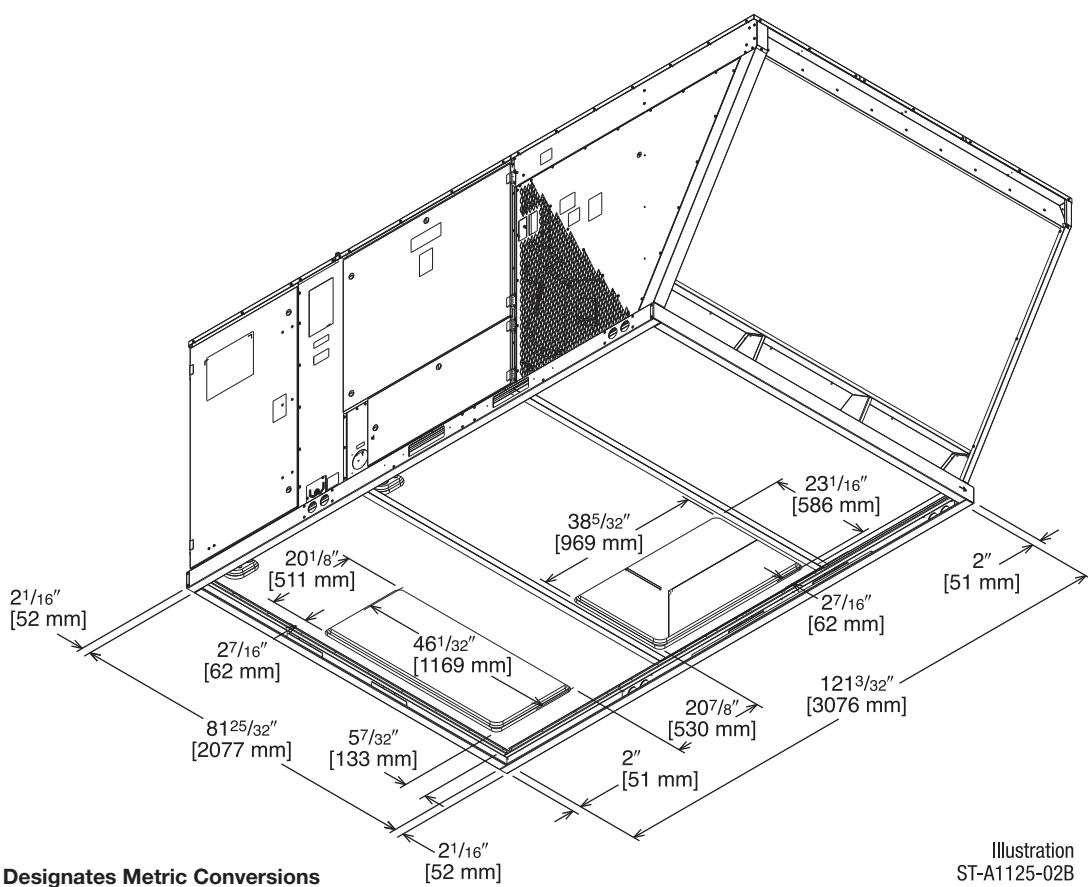
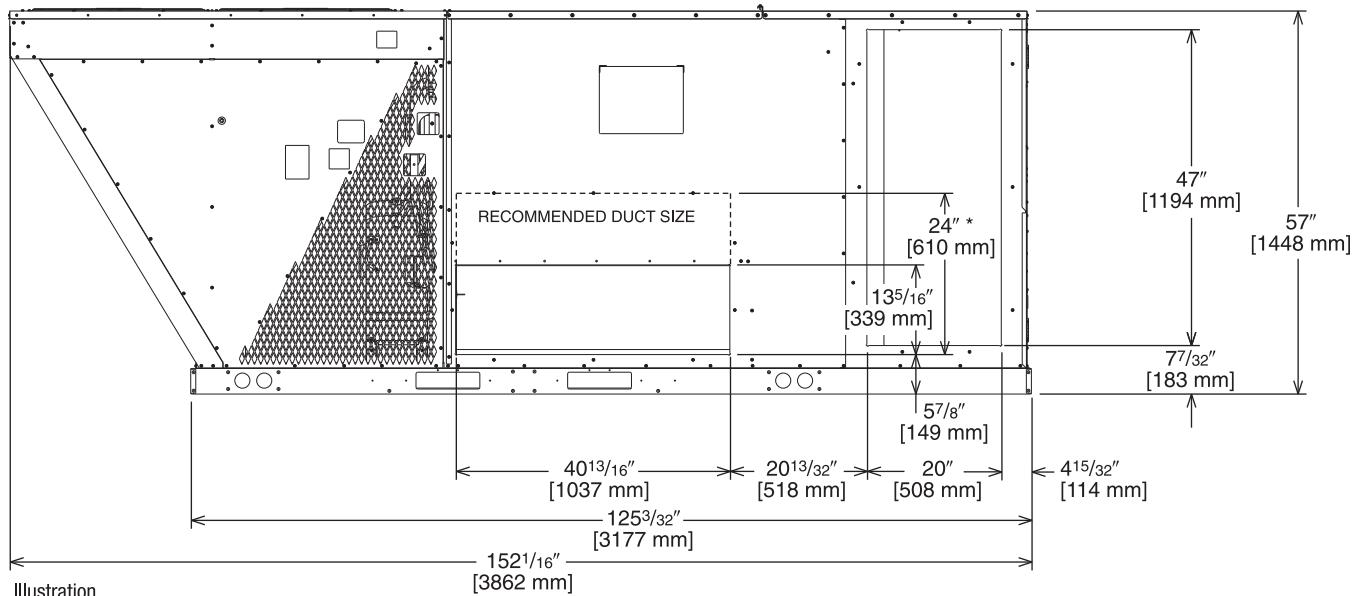


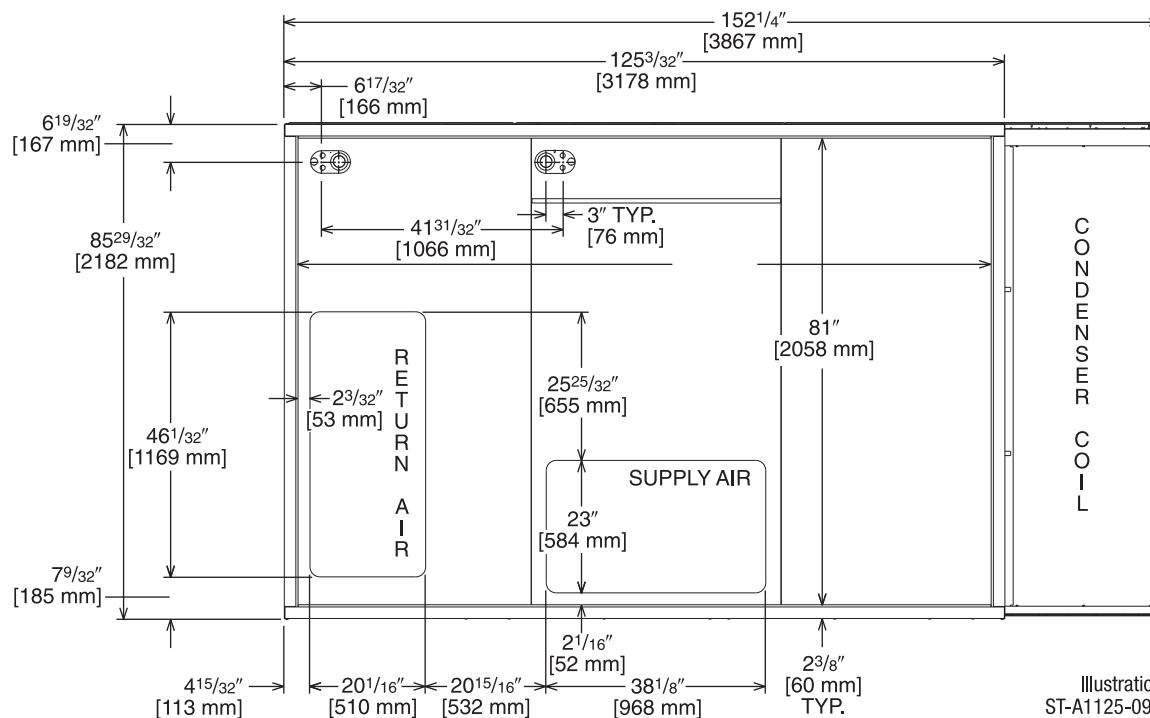
Illustration  
ST-A1125-02B

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



**DUCT SIDE VIEW (REAR)**

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



**BOTTOM VIEW**

[ ] Designates Metric Conversions

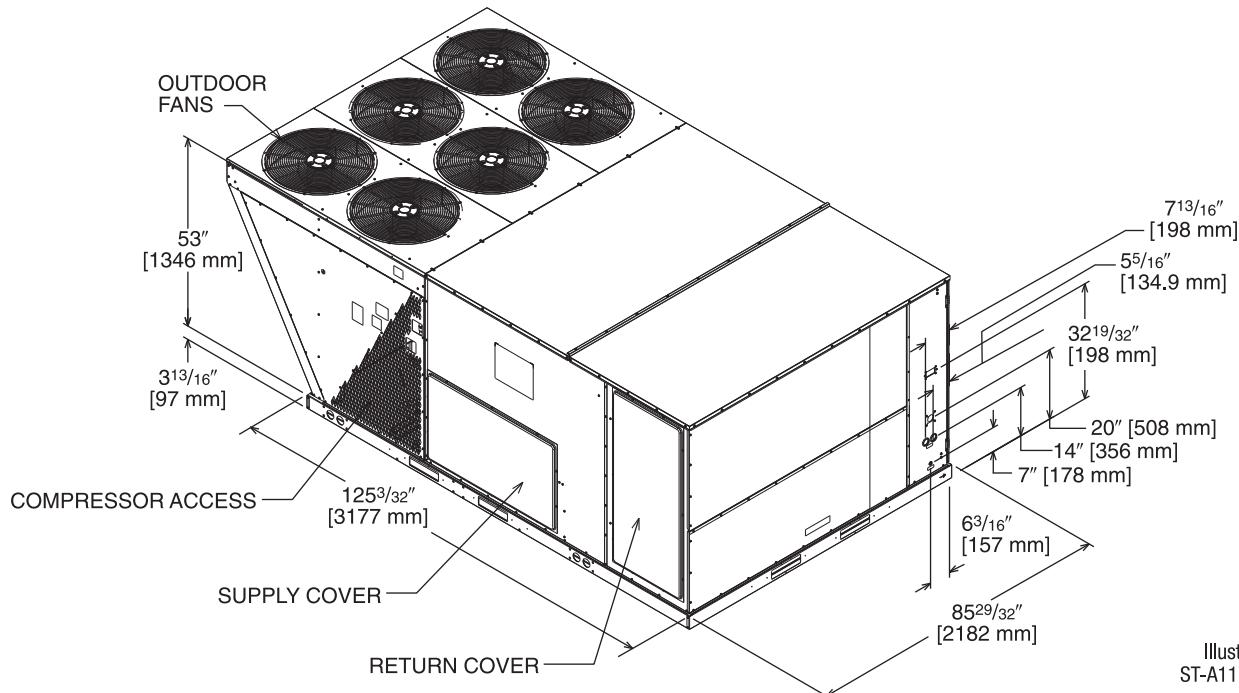
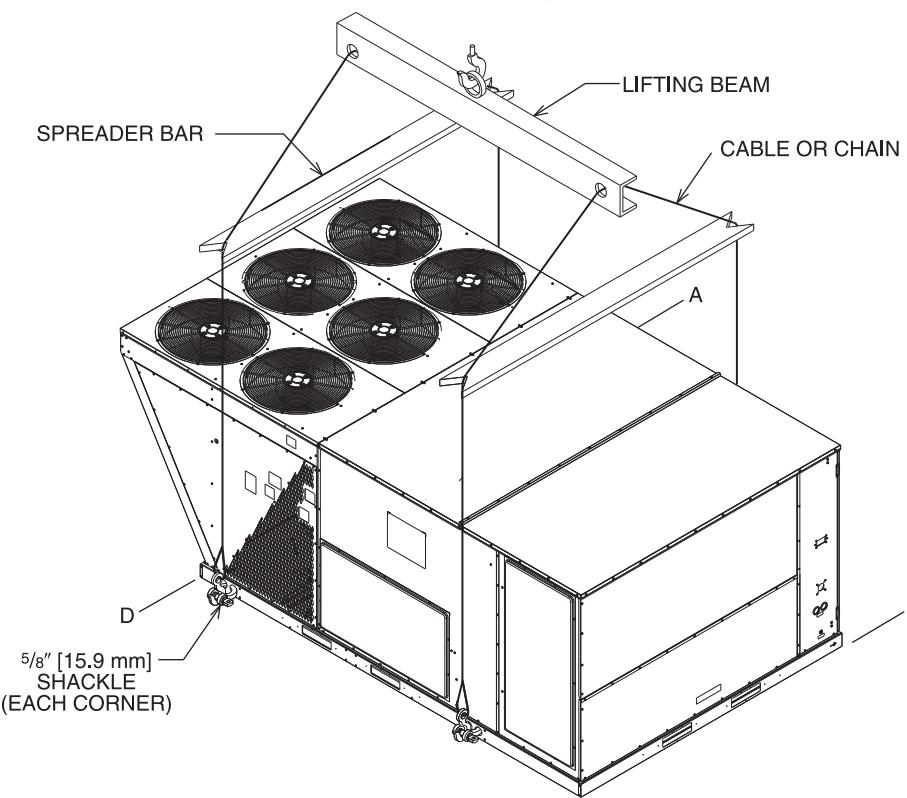


Illustration  
ST-A1125-03



## WEIGHTS\*

Accessory	Shipping—lbs [kg]	Operating—lbs [kg]
Downflow Economizer w/Single Enthalpy	324 [149.6]	184 [83.4]
Downflow Economizer w/Smoke Detector	328 [148.7]	188 [85.2]
Horizontal Economizer w/Single Enthalpy	367 [166.4]	258 [117.0]
Power Exhaust	119 [54.0]	59 [26.8]
Manual Fresh Air Damper**	61 [27.7]	52 [23.6]
Motor Kit for Fresh Air Damper**	42 [19.1]	35 [15.9]
Roof Curb 14"	184 [83.5]	176 [79.8]

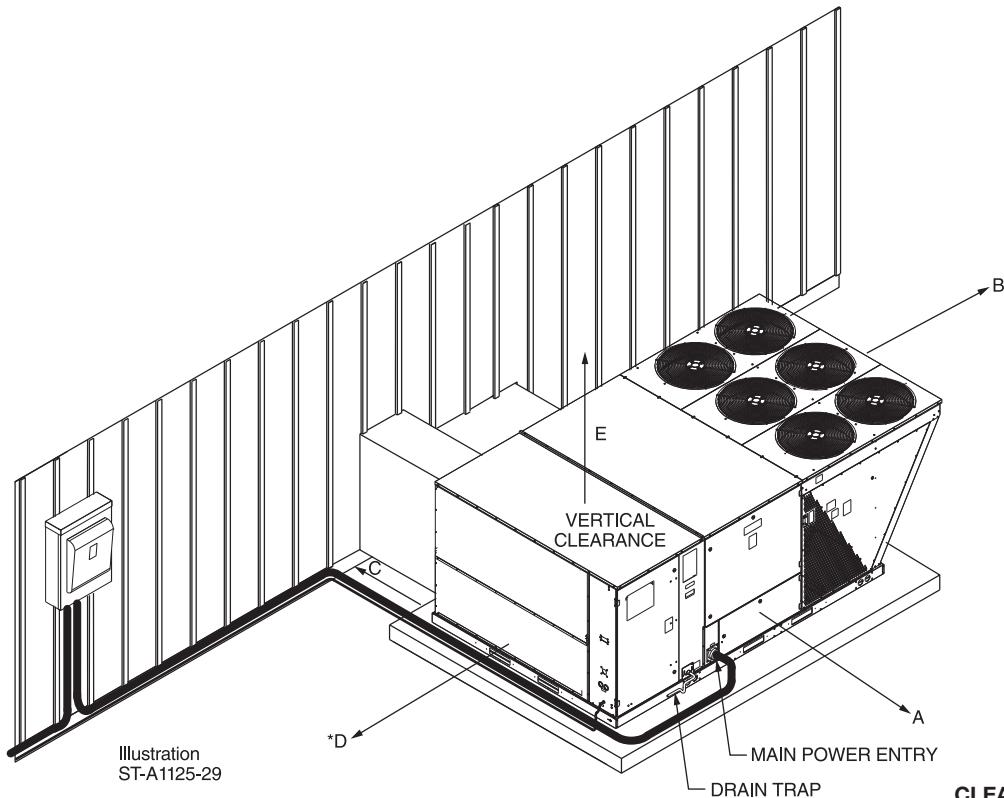
NOTES: \*Include options from accessory table page to obtain total unit weight.

\*\*Motorized Kit and Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection

Corner Weights by Percentage			
A	B	C	D
32%	27%	16%	24%

\*Note: Corner weights measured at base of unit.

[ ] Designates Metric Conversions

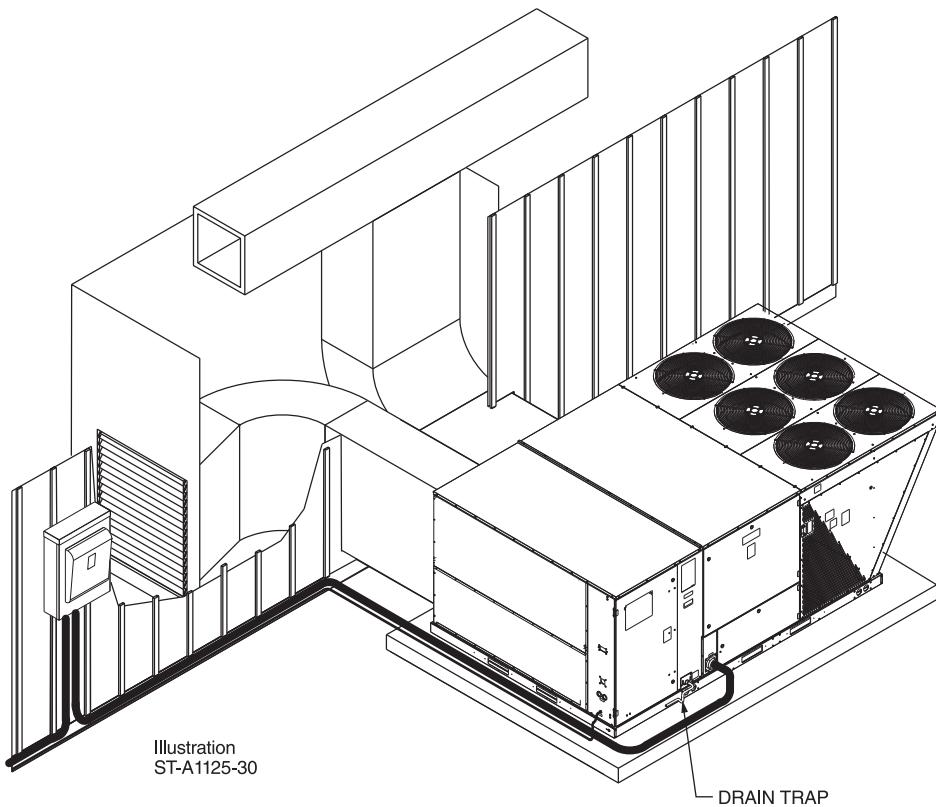


#### CLEARANCES

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

Recommended Clearance In. [mm]	Location
80 [2032]	A - Front
18 [457]	B - Condenser Coil
18 [457]	+C - Duct Side
18 [457]	*D - Evaporator End
60 [1524]	E - Above

\*Without Economizer 18" [457 mm].  
With Economizer 48" [1219 mm].  
+Without Horizontal Economizer 18" [457 mm].  
With Horizontal Economizer 42" [1067 mm].



DRAIN TRAP

[ ] Designates Metric Conversions

**FIELD INSTALLED ACCESSORY EQUIPMENT—SELF CONTAINED AIR CONDITIONER**

<b>Accessory Description</b>	<b>Model Number</b>	<b>Shipping Weight Lbs. [kg]</b>	<b>Installed Weight Lbs. [kg]</b>	<b>Factory Installation Available?</b>
Electric Heaters	RXJJ-CE20 (C,D,Y)	41 [18.6]	31 [14.1]	Yes
	RXJJ-CE40 (C,D,Y)	44 [20.0]	34 [15.4]	Yes
	RXJJ-CE60 (C,D,Y)	45 [20.4]	35 [15.9]	Yes
	RXJJ-CE75 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
Downflow Economizer w/ Single Enthalpy	AXRD-01RGDAM3	324 [149.6]	184 [83.4]	Yes
Downflow Economizer w/ Smoke Detector	AXRD-01RGDBM3	328 [148.7]	188 [85.2]	Yes
Dual Enthalpy Kit	RXRX-AV04	1 [0.5]	0.5 [0.2]	No
Horizontal Economizer w/ Single Enthalpy	AXRD-01RGHAM3	367 [166.4]	258 [117.0]	No
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02	3 [1.4]	2 [0.9]	No
Power Exhaust (208/230V)	RXRX-BGF05C	119 [54.0]	59 [26.8]	No
Power Exhaust (460V)	RXRX-BGF05D	119 [54.0]	59 [26.8]	No
Power Exhaust (575V)	RXRX-BGF05Y	119 [54.0]	59 [26.8]	No
Manual Fresh Air Damper*	AXRF-KFA1	61 [27.7]	52 [23.6]	No
Motorized Kit for Manual Fresh Air Damper*	RXRX-AW03	42 [19.1]	35 [15.9]	No
Roofcurb, 14"	RXKG-CBH14	184 [83.5]	176 [79.8]	No
Roofcurb Adapter to RXRK-E56	RXRX-CJCE56	465 [210.9]	415 [188.2]	No
Roofcurb Adapter to RXKG-CAF14	RXRX-CJCF14	555 [251.7]	505 [229.1]	No
Concentric Diffuser (Step-Down 18" x 36")	RXRN-AD81	310 [140.6]	157 [71.2]	No
Concentric Diffuser (Step-Down 24" x 48")	RXRN-AD86	367 [166.5]	212 [96.2]	No
Concentric Diffuser (Step-Down 28" x 60")	RXRN-AD88	410 [186.0]	370 [167.8]	No
Concentric Diffuser (Flush, 18" x 36")	RXRN-AD80	213 [96.6]	115 [52.2]	No
Downflow Transition (Rect. To Rect. 18" x 36")	RXMC-CJ07 <sup>1</sup>	81 [36.7]	74 [33.6]	No
Downflow Transition (Rect. To Rect. 24" x 48")	RXMC-CK08 <sup>2</sup>	81 [36.7]	74 [33.6]	No
Downflow Transition (Rect. To Rect. 28" x 60")	RXMC-CL09 <sup>3</sup>	81 [36.7]	74 [33.6]	No
Compressor Time-Delay Relay Kit	RXMD-A04	2 [0.9]	1 [0.5]	No
Low-Ambient Control Kit (1 Per Compressor)	RXRZ-C02	3 [1.4]	2 [0.9]	Yes
Freeze Stat	RXRX-AM03	1 [0.5]	0.5 [0.2]	Yes
Non-Powered Convenience Outlet	RXRX-AN01	2 [0.9]	1.5 [0.7]	Yes
Hail Guard Louvers	AXRX-AAD01L	55 [24.8]	45 [20.3]	Yes
MERV 8 Filter	RXMF-M08A22520	2 [0.9]	1 [0.45]	No
MERV 13 Filter	RXMF-M13A22520	2 [0.9]	1 [0.45]	No

\*NOTES: \*Motorized Kit and Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection

<sup>1</sup> Used with RXRN-AD81 and RXRN-AD80 concentric diffusers<sup>2</sup> Used with RXRN-AD86 concentric diffusers<sup>3</sup> Used with RXRN-AD88 concentric diffusers

[ ] Designates Metric Conversions

## ECONOMIZERS—DOWNTIME ONLY

Use to Select Field Installed Options Only

**AXRD-01RGDAM3—Single Enthalpy (Outdoor)**

**AXRD-01RGDBM3—Single Enthalpy (Outdoor) w/Smoke Detector**

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

**RXRX-AV04—Dual Enthalpy Upgrade Kit**

- Features Honeywell JADE™ Digital Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (Honeywell #S963B1128) is Available from Prostock.
- Field Installed Power Exhaust Available

Illustration  
ADS-100566-52-01

NOTE: ±.125 TOLERANCE ON ALL DIMENSIONS

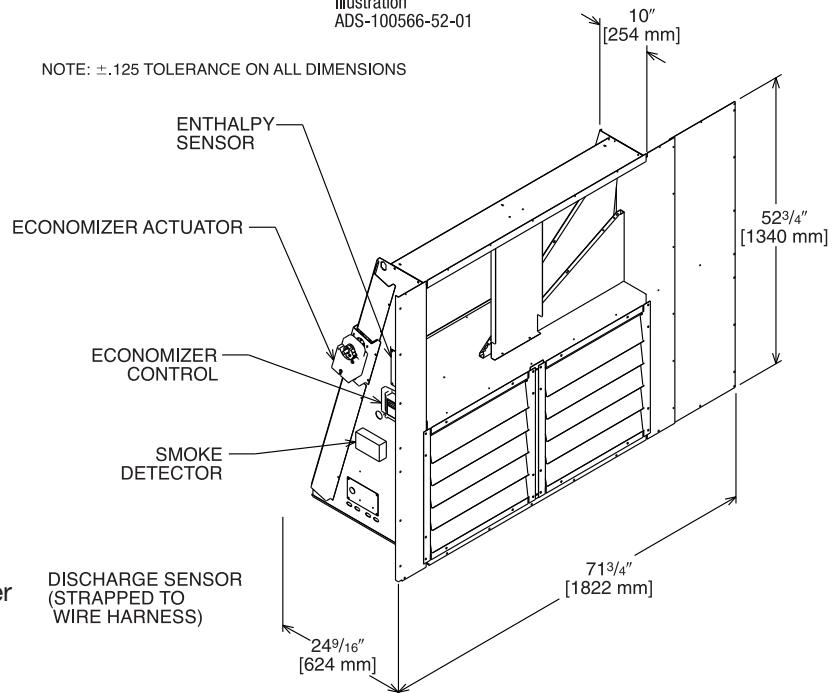
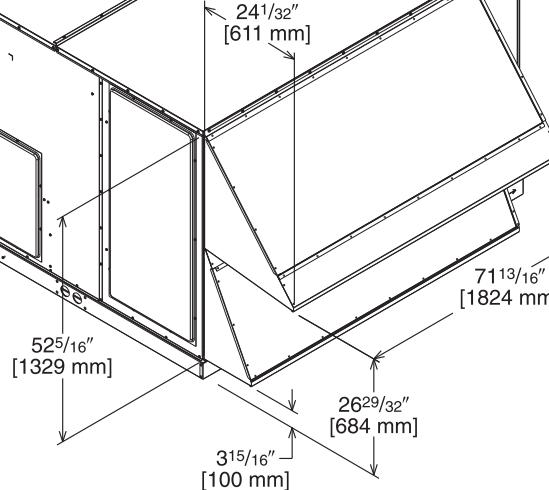


Illustration  
ST-A1125-21



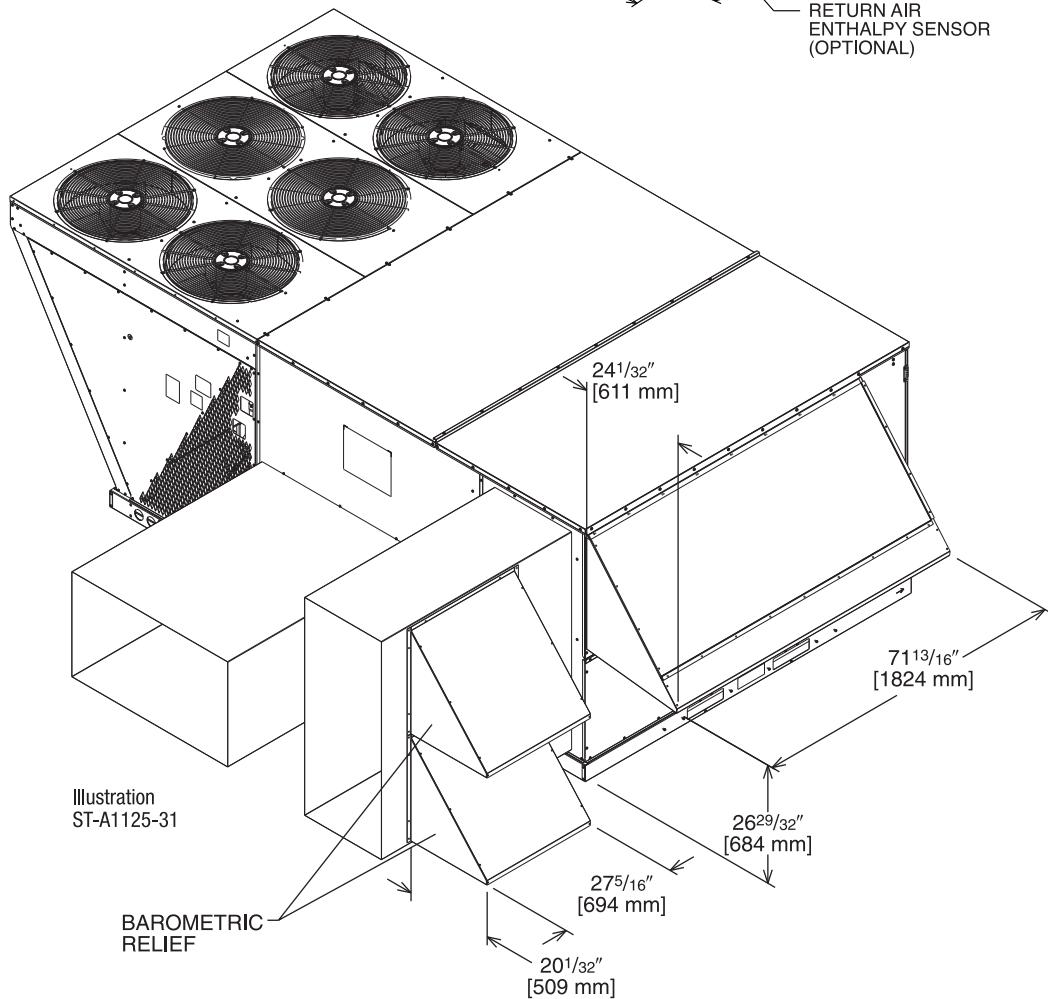
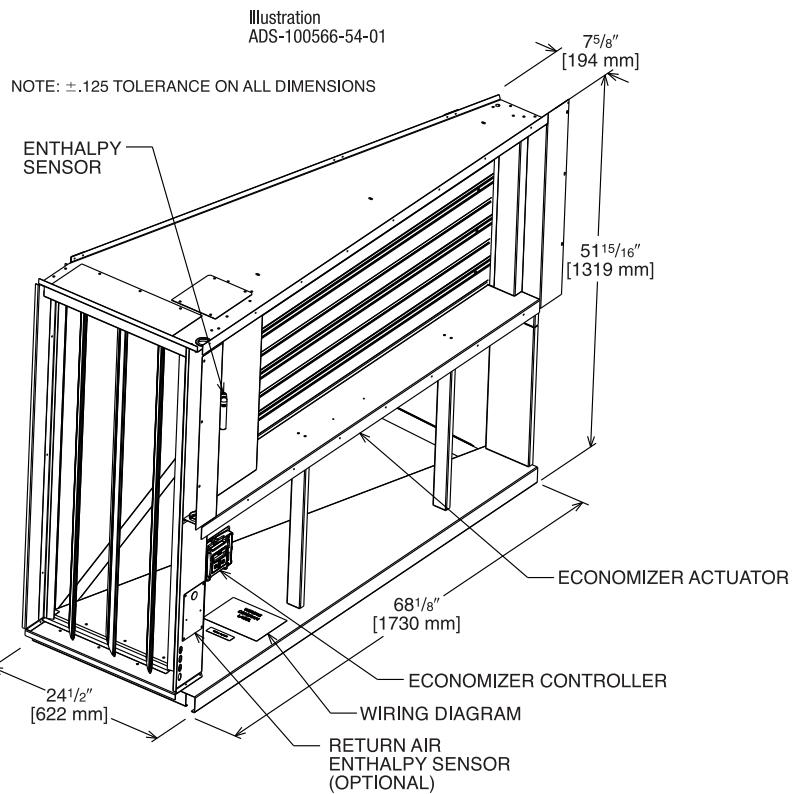
[ ] Designates Metric Conversions

## ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

### Field Installed Only

**AXRD-01RGHAM3—Single Enthalpy (Outdoor)**  
**RXRX-AV04—Dual Enthalpy Upgrade Kit**  
**RXRX-AR02—Optional Wall-Mounted CO<sub>2</sub> Sensor**

- Features Honeywell JADE™ Digital Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO<sub>2</sub> Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field Installed Power Exhaust Available



[ ] Designates Metric Conversions

## INTEGRAL POWER EXHAUST KIT FOR AXRD-01RGDAM3 OR AXRD-01RGDBM3 ECONOMIZERS

(C, D, or Y\*)

\*Voltage Code

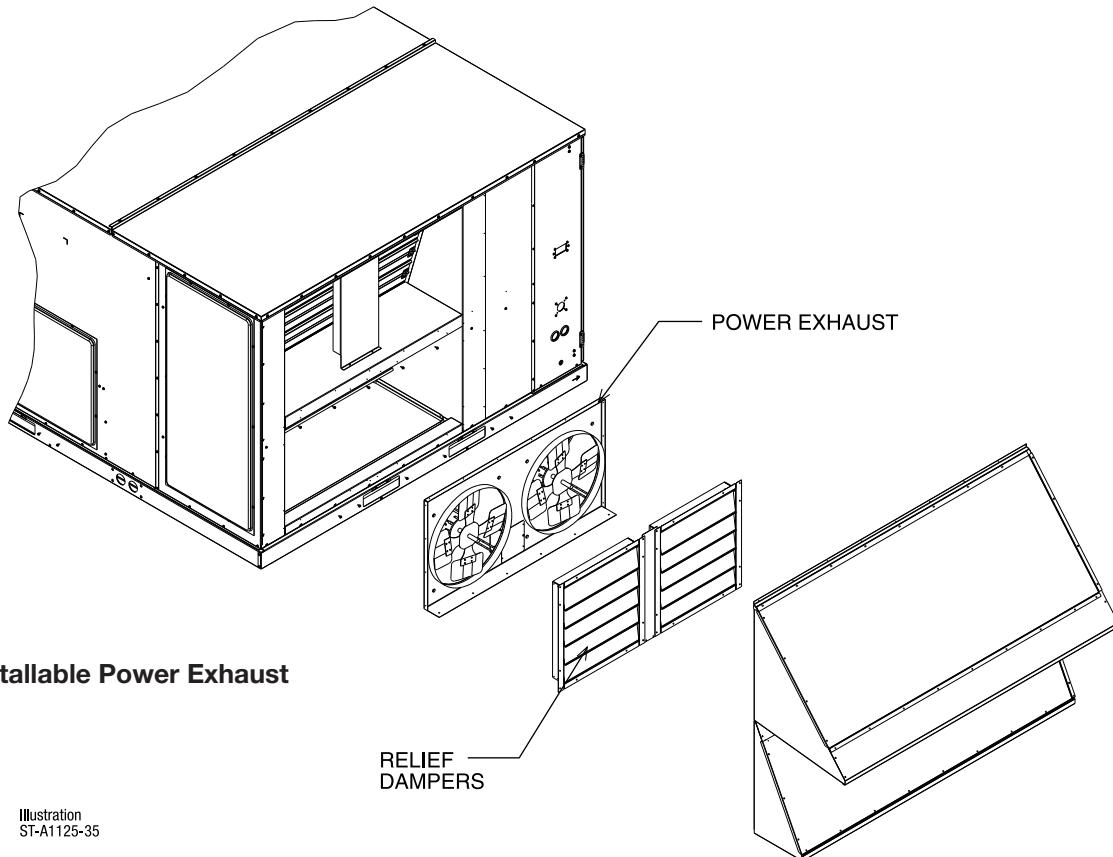


Illustration  
ST-A1125-35

Model No.	No. of Fans	Volts	Phase	HP (ea.)	Low Speed		High Speed ①		FLA (ea.)	LRA (ea.)
					CFM [L/s] ②	RPM	CFM [L/s] ②	RPM		
RXRX-BGF05C	2	208-230	1	0.75	4100 [1935]	850	5200 [2454]	1050	5	4.97
RXRX-BGF05D	2	460	1	0.75	4100 [1935]	850	5200 [2454]	1050	2.2	3.4
RXRX-BGF05Y	2	575	1	0.75	4100 [1935]	850	5200 [2454]	1050	1.5	2.84

NOTES: ① Power exhaust is factory set on high speed motor tap.

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

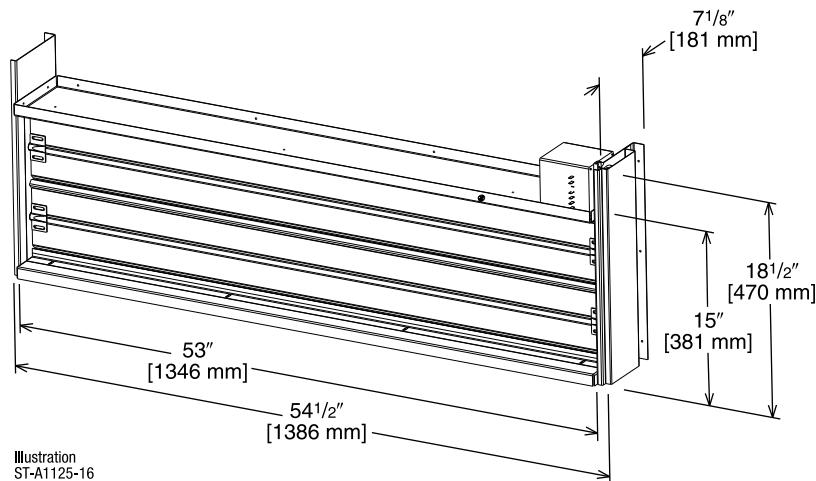
[ ] Designates Metric Conversions

## FRESH AIR DAMPER

### MOTORIZED DAMPER KIT

RXRX-AW03

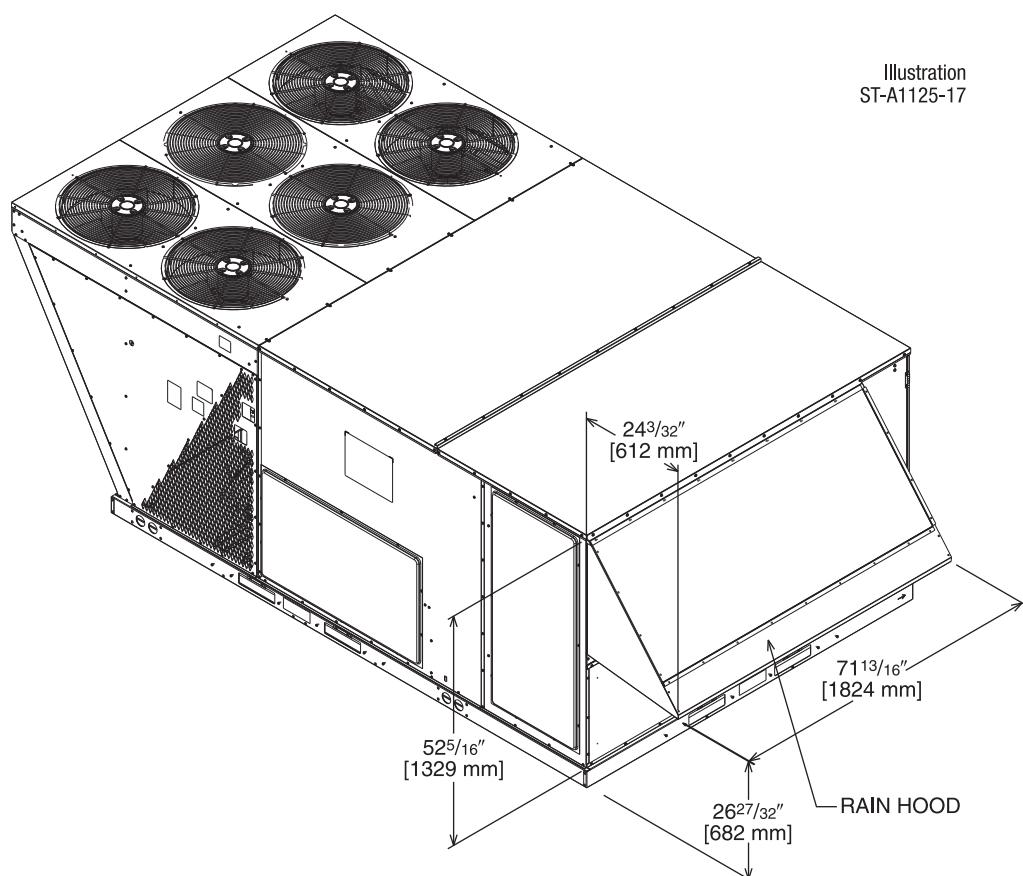
(Motor Kit for RXRF-KFA1)



**AXRF-KFA1 (Manual)**

**RXRX-AW03 (Motorized damper kit for manual fresh air damper)**

Illustration  
ST-A1125-17

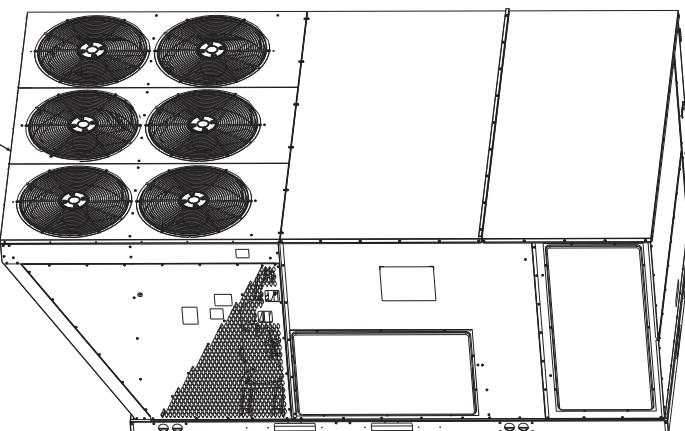


[ ] Designates Metric Conversions

## ROOFCURBS (Full Perimeter)

- Ruud's roofer curb design can be utilized on 15 and 20 ton [52.8 and 70.3 kW] models.
- One available height (14" [356 mm]).
- Quick assembly corners for simple and fast assembly.
- 1" [25.4 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

## TYPICAL INSTALLATION



## ROOFCURB ASSEMBLY

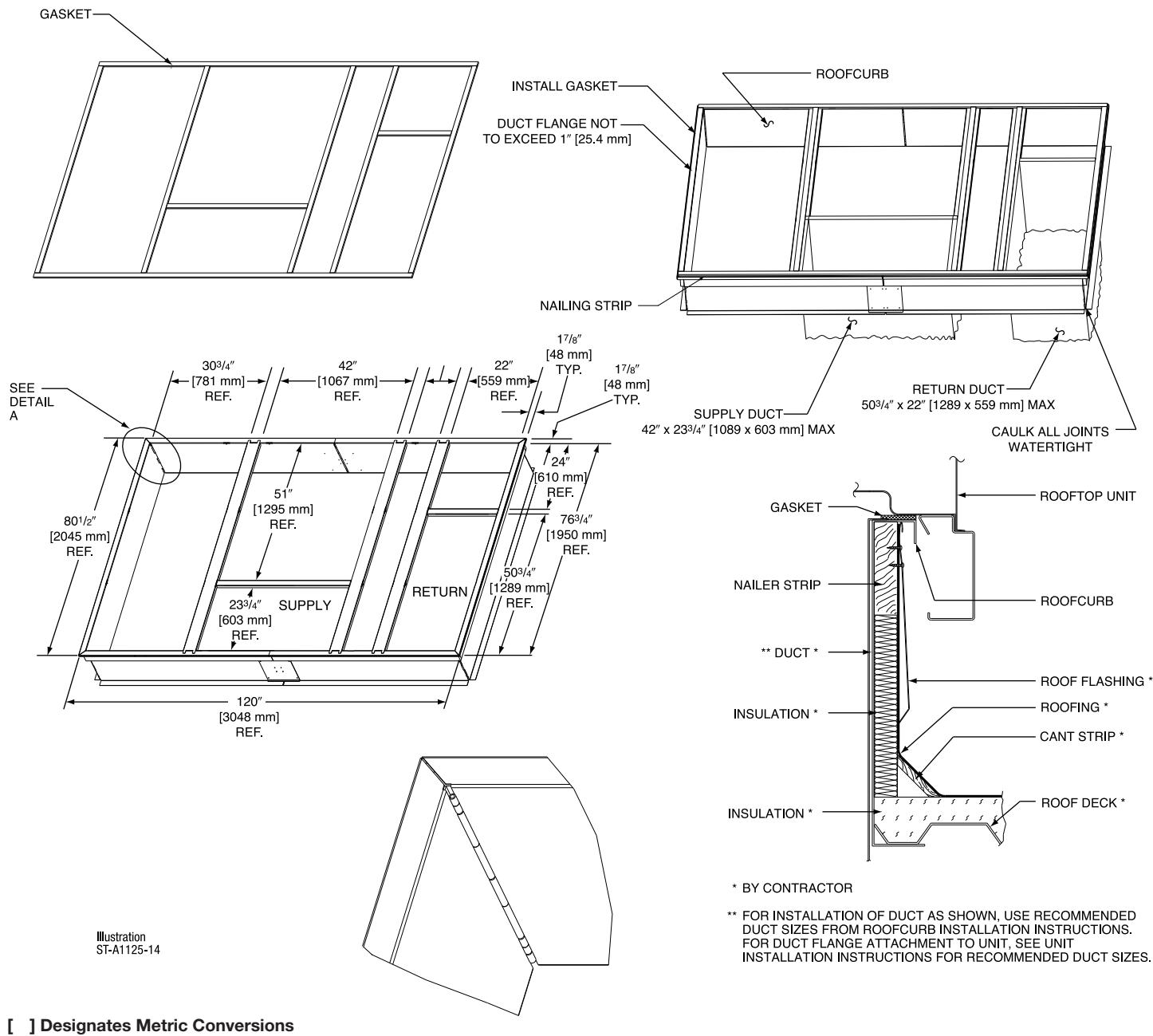


Illustration  
ST-A1125-14

[ ] Designates Metric Conversions

DETAIL A

## ROOFCURB ADAPTERS

### OLD MODELS

#### COMMERCIAL CABINET

(15 & 20 TON)

([52.8 & 70.3 kW])

(-)RGF, (-)REF

### OLD CURB MODEL

RXRK-E56

### ROOFCURB ADAPTER

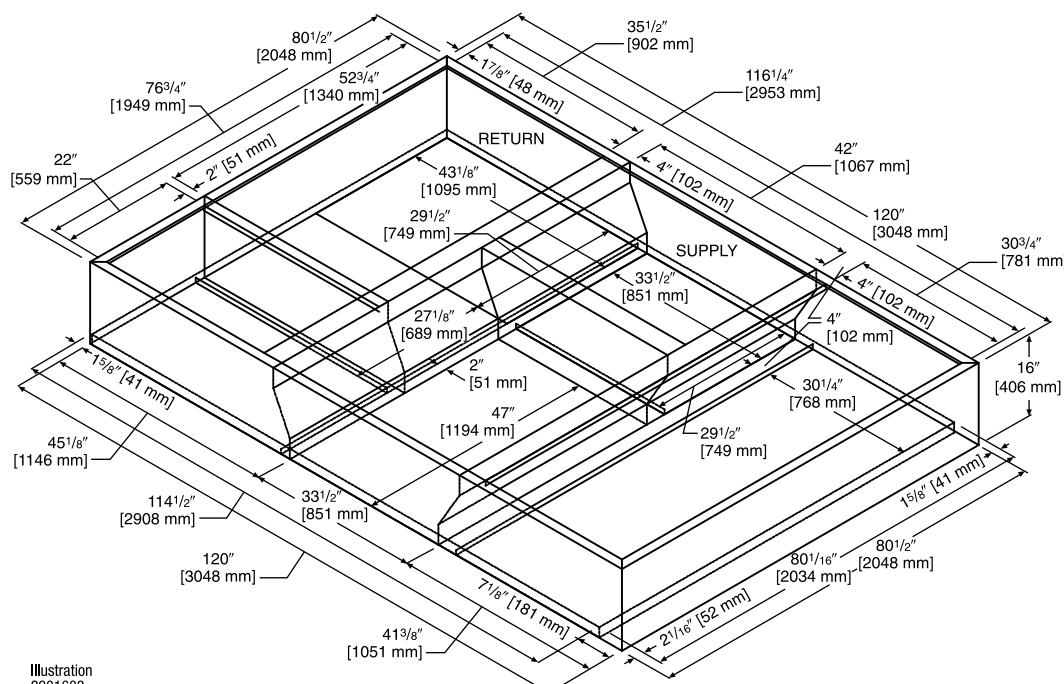
RXRX-CJCE56

### NEW MODEL

(-)LNL

(15 & 20 TON)

([52.8 & 70.3 kW])



#### COMMERCIAL CABINET

(15 & 20 TON)

([52.8 & 70.3 kW])

(-)LKB, LMB

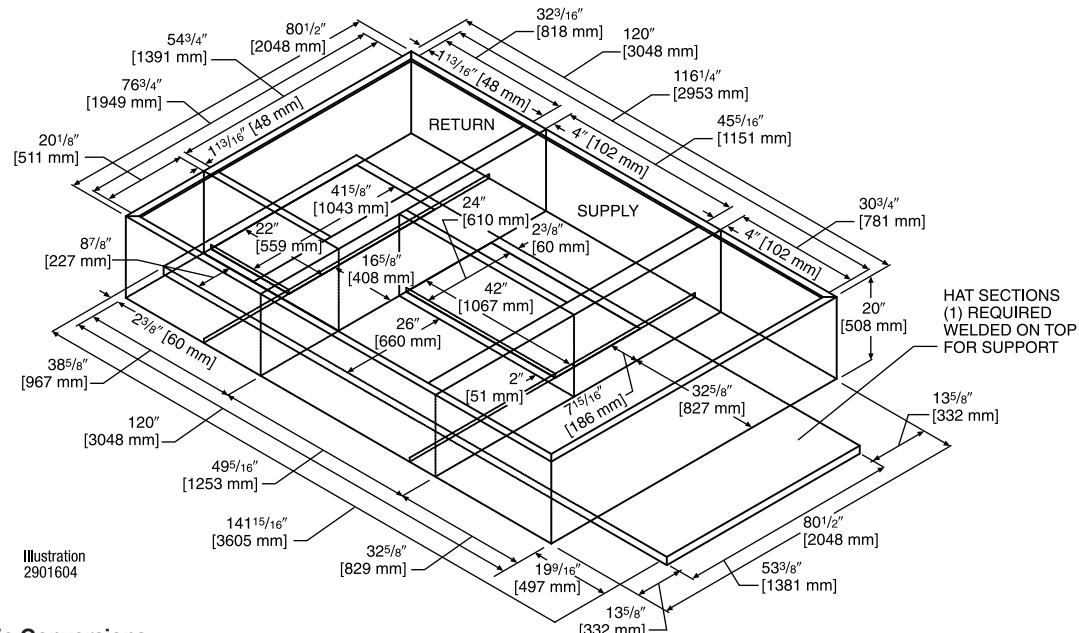
RXKG-CAF14

RXRX-CJCF14

(-)LNL

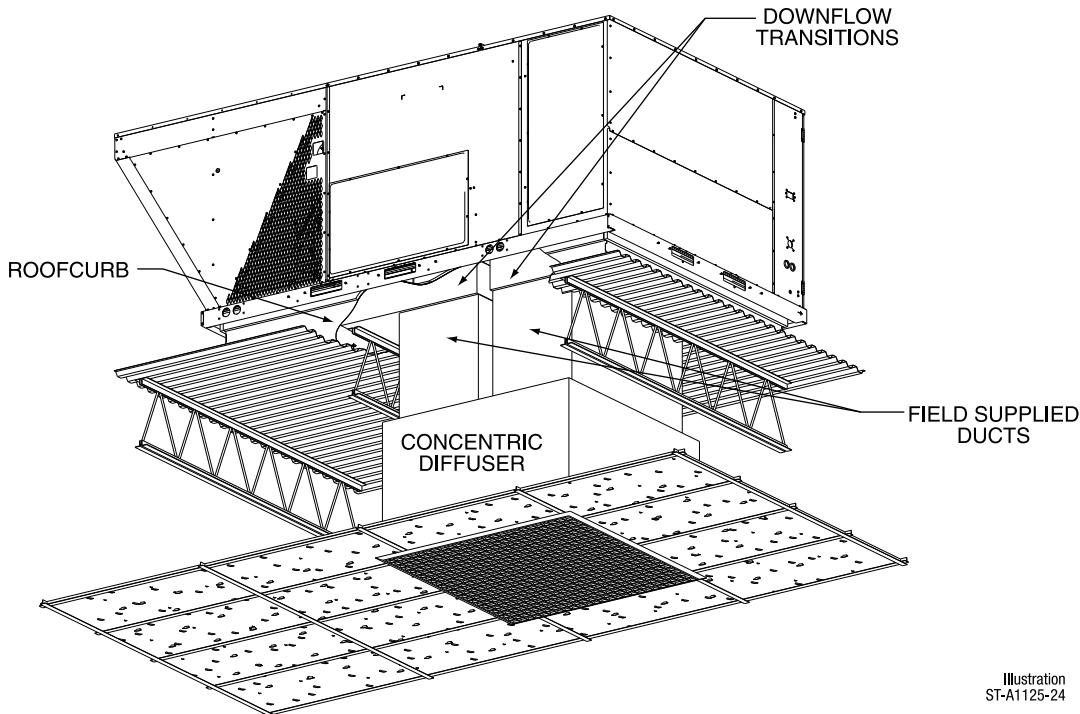
(15 & 20 TON)

([52.8 & 70.3 kW])



[ ] Designates Metric Conversions

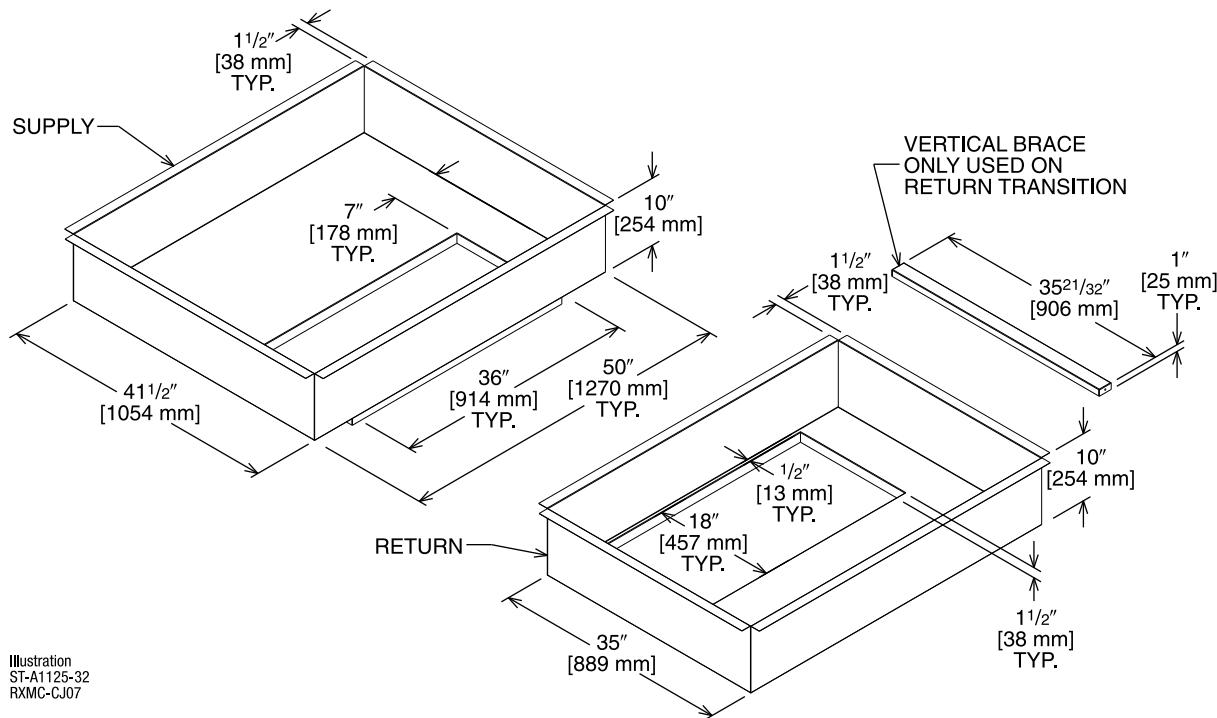
## CONCENTRIC DIFFUSER APPLICATION



## DOWNFLOW TRANSITION DRAWINGS

### RXMC-CJ07 (15 Ton) [52.8 kW]

- Used with RXRN-AD80 and RXRN-AD81 Concentric Diffusers.



[ ] Designates Metric Conversions

## DOWNFLOW TRANSITION DRAWINGS (Cont.)

### RXMC-CK08 (20 Ton) [70.3 kW]

■ Used with RXRN-AD86 Concentric Diffusers.

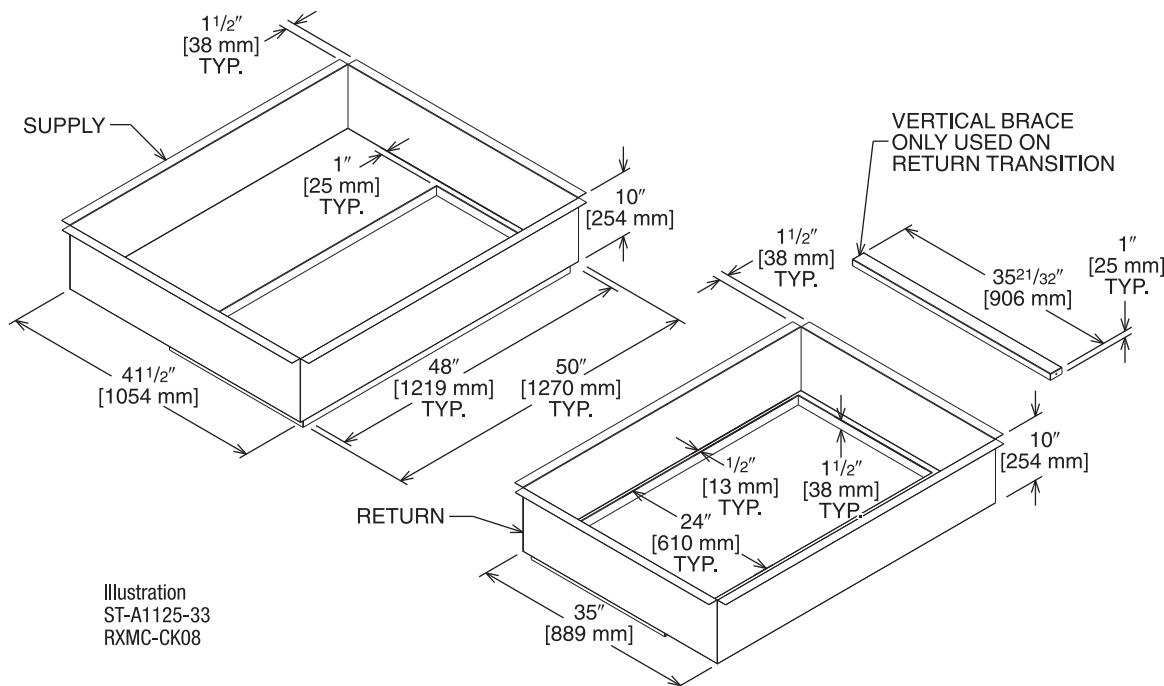
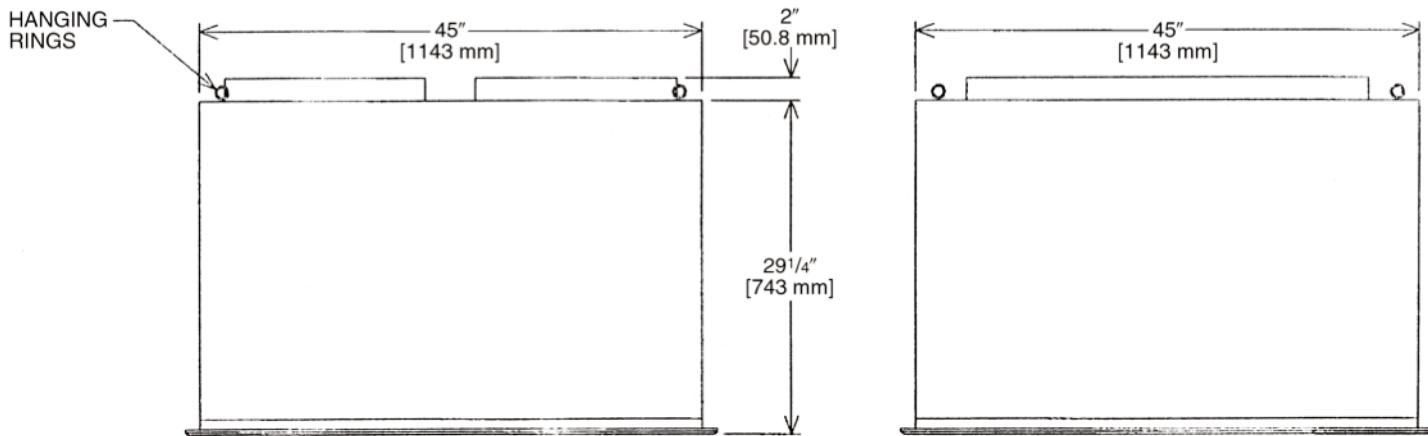
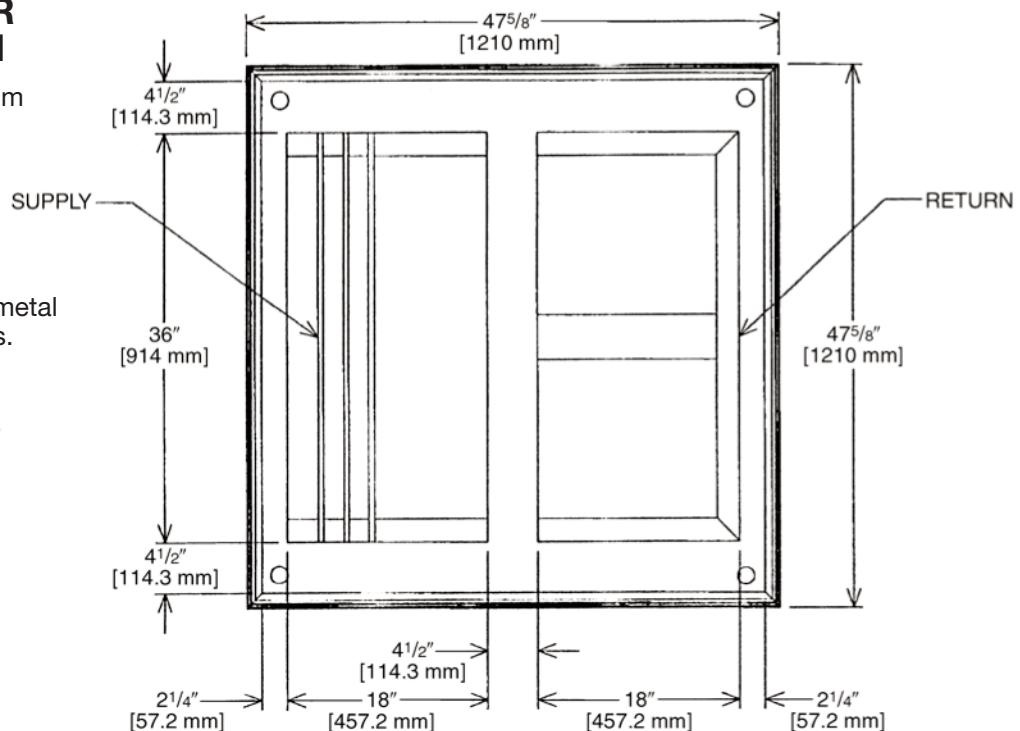


Illustration  
ST-A1125-33  
RXMC-CK08

[ ] Designates Metric Conversions

## CONCENTRIC DIFFUSER 15 TON [52.8 kW] FLUSH

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



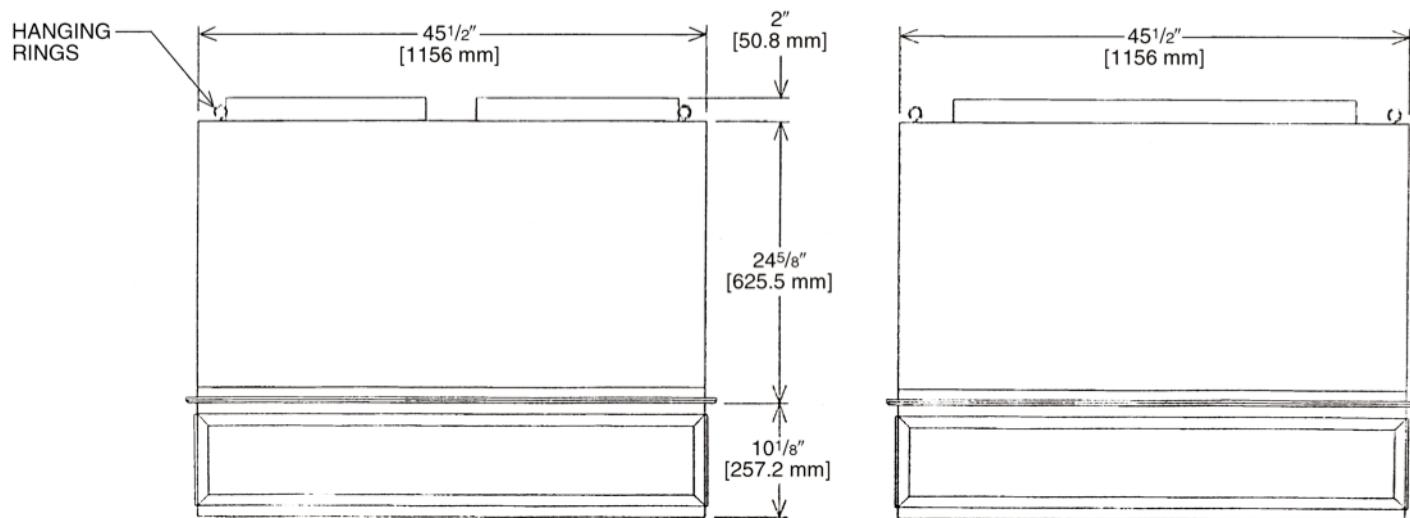
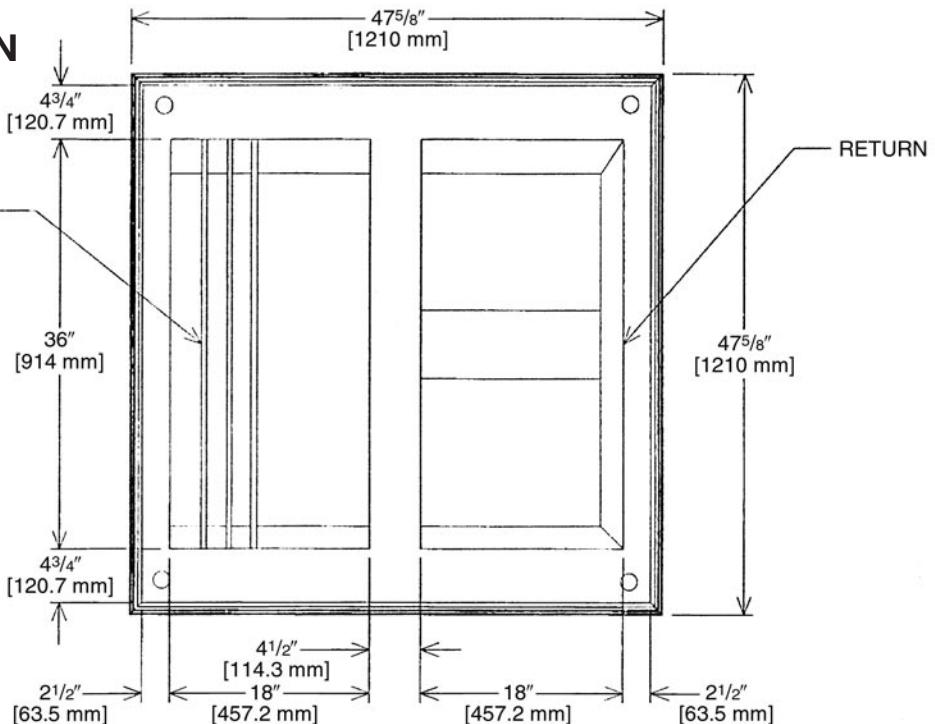
## CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD80	5600 [2643]	0.36	28-37	1000	2082
	5800 [2737]	0.39	29-38	1036	2156
	6000 [2832]	0.42	40-50	1071	2230
	6200 [2926]	0.46	42-51	1107	2308
	6400 [3020]	0.50	43-52	1143	2379
	6600 [3115]	0.54	45-56	1179	2454

[ ] Designates Metric Conversions

## CONCENTRIC DIFFUSER 15 TON [52.8 kW] STEP DOWN

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



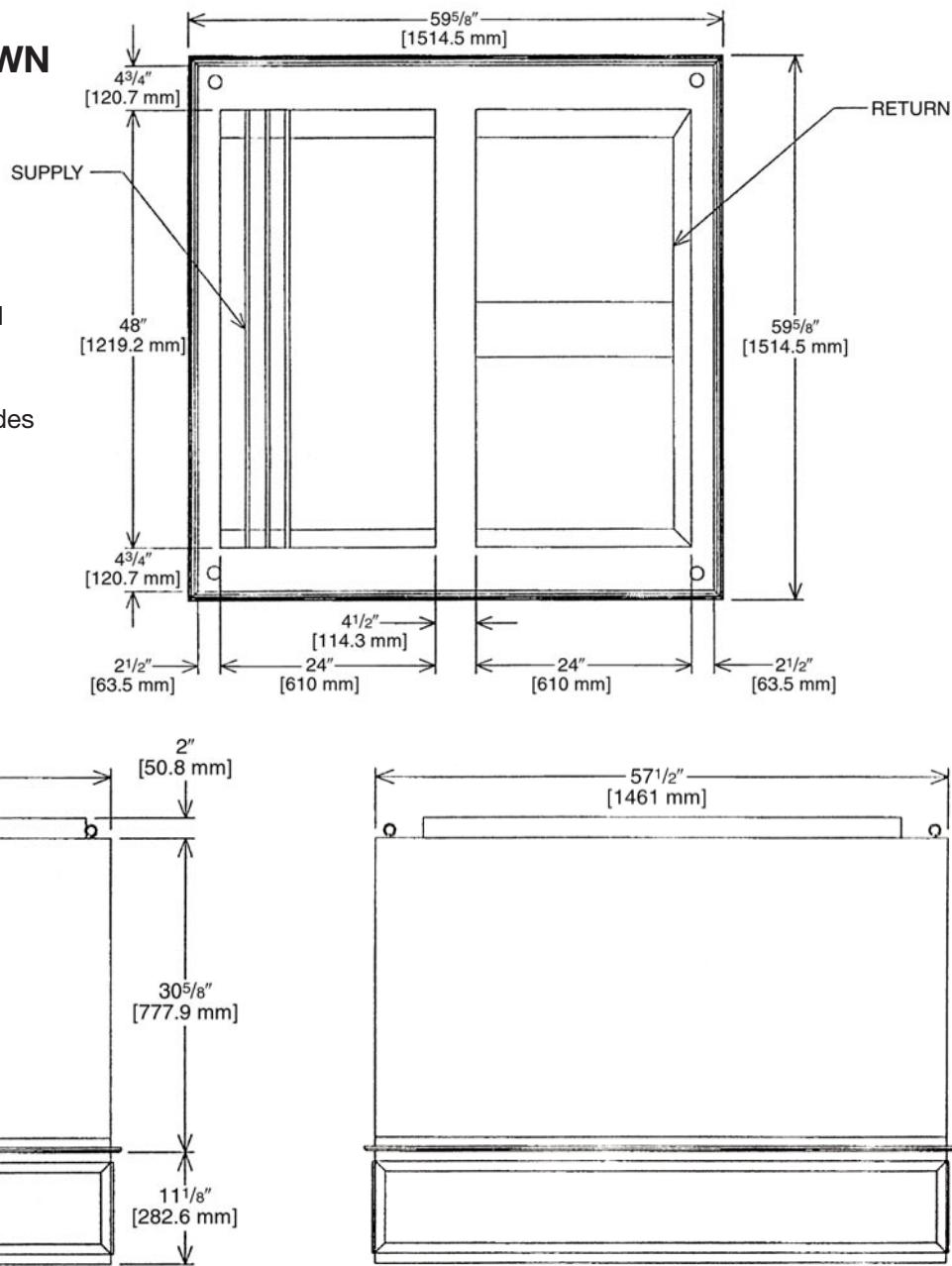
## CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD81	5600 [2643]	0.36	39-49	920	920
	5800 [2737]	0.39	42-51	954	954
	6000 [2832]	0.42	44-54	1022	1022
	6200 [2926]	0.46	45-55	1056	1056
	6400 [3020]	0.50	46-55	1090	1090
	6600 [3115]	0.54	47-56	1124	1124

[ ] Designates Metric Conversions

## CONCENTRIC DIFFUSER RXRN-AD86 SERIES 20 TON [70.3 kW] STEP DOWN

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



## CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD86	7200 [3398]	0.39	33-38	827	827
	7400 [3492]	0.41	35-40	850	850
	7600 [3587]	0.43	36-41	873	873
	7800 [3681]	0.47	38-43	896	896
	8000 [3776]	0.50	39-44	918	918
	8200 [3870]	0.53	41-46	941	941
	8400 [3964]	0.56	43-49	964	964
	8600 [4059]	0.59	44-50	987	987
	8800 [4153]	0.63	47-55	1010	1010

[ ] Designates Metric Conversions

## Guide Specifications RLNL-B180 thru B241

Note about this specification: Please feel free to copy this specification directly into your building spec. 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: 15-20 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. energize both "W" and "G" when calling for heat.
  - b. have capability to energize 2 different stages of cooling, and 2 different stages of heating.
  - c. must include capability for occupancy scheduling.

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

**23 09 33.13 Decentralized, Rooftop Units:**

23 09 33.13.A. General:

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side.
2. Shall utilize color-coded wiring.
3. Unit shall include a minimum of one 9-pin screw terminal connection board for connection of control wiring.

23 09 33.23.B. Safeties:

1. Compressor over-temperature, over current.
2. Low-pressure switch.
3. High-pressure switch.
4. Automatic reset, motor thermal overload protector.

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

**23 09 93.13 Decentralized, Rooftop Units:**

23 09 93.13 INSERT SEQUENCE OF OPERATION

**23 40 13 Panel Air Filters**

**23 40 13.13 Decentralized, Rooftop Units:**

23 40 13.13.A. Standard filter section shall

1. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
2. 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).

**23 81 19 Self-Contained Air Conditioners**

**23 81 19.13 Small-Capacity Self-Contained Air Conditioners**

23 81 19.13.A. General

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and 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, R410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

23 81 19.13.B. Quality Assurance

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

23 81 19.13.C. Delivery, Storage, and Handling

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position.

23 81 19.13.E. Project Conditions

1. As specified in the contract.

23 81 19.13.F. Operating Characteristics

1. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 or 360 at ± 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 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 or 360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 3/4-in. thick, 1 lb. density, flexible fiberglass insulation, aluminum foil-faced coated on the air side.
4. Base of unit shall have locations for thru-the-base gas and electrical connections (factory installed or field installed), standard.
5. Base Rail
  - a. Unit shall have base rails on all sides.
  - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
  - c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
  - d. Base rail shall be a minimum of 14 gauge thickness.

6. Condensate pan and connections:

- a. Shall be a sloped condensate drain pan made of a non-corrosive material.
- b. Shall comply with ASHRAE Standard 62.
- c. Shall use a 1" x 11 1/2 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.
- b. Stainless steel metal hinges are standard on all doors.
- c. Panels covering control box, indoor fan, indoor fan motor, and electric or gas heater components (where applicable), shall have 1/4 turn latches.

23 81 19.13.J. Coils

1. Standard Aluminum/Copper Coils:

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

23 81 19.13.K. Refrigerant Components

1. Refrigerant circuit shall include the following control, safety, and maintenance features:

- a. Thermal Expansion Valve (TXV) with orifice type distributor.
- b. Refrigerant filter drier.
- c. Service gauge connections on suction and discharge lines.
- d. Pressure gauge access through an access port in the front and rear panel of the unit.

2. Compressors

- a. Unit shall use one fully hermetic, scroll compressor for each independent refrigeration circuit.
- b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
- c. Compressors shall be internally protected from high discharge temperature conditions. Advanced Scroll Temperature Protection on 240-300 sizes.
- 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.
- 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. Filters shall be held in place by sliding filter tray, facilitating easy removal and installation.
3. Shall consist of factory-installed, low velocity, throw-away 2-in. thick fiberglass filters.
4. Filter face velocity shall not exceed 365 fpm at nominal airflows.
5. Filters shall be standard, commercially available sizes.
6. Only one size filter per unit is allowed.

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.

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. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory installed option.
  - c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
  - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
  - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
  - f. Shall be capable of introducing up to 100% outdoor air.
  - g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
  - h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
  - i. An outdoor single enthalpy sensor shall be provided as standard. Outdoor air 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. A remote potentiometer may be used to override the damper set point.
  - l. Economizer controller shall accept a 2-10Vdc CO<sub>2</sub> sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
  - 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.
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. Convenience Outlet:
  - a. Non-Powered convenience outlet.
  - b. Outlet shall be powered from a separate 115-120v power source.
  - c. A transformer shall not be included.
  - d. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
  - e. Outlet shall include 15 amp GFI receptacles.
  - f. Outlet shall be accessible from outside the unit.
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 is shall be mounted in return ductwork.
  - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
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 nailing 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.
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 tool-less connection terminal access.
  - e. Shall have a recessed momentary switch for testing and resetting the detector.
  - f. 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.

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

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

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

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

### **Compressor**

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

### **Parts**

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





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

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