



MODEL: RLKL-B

Package Air Conditioner

FORM NO. SSC-959

Sure Comfort® RLKL-B Package Air Conditioner



RLKL-B High Efficiency

- Nominal Sizes 7.5, 10 & 12.5 Tons [26.4, 35.2 & 44.0 kW]
- ASHRAE 90.1-2010 Compliant Model



"Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your Contractor for details or visit www.energystar.gov."

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These quality features are included in the Sure Comfort Package Air Conditioner Unit

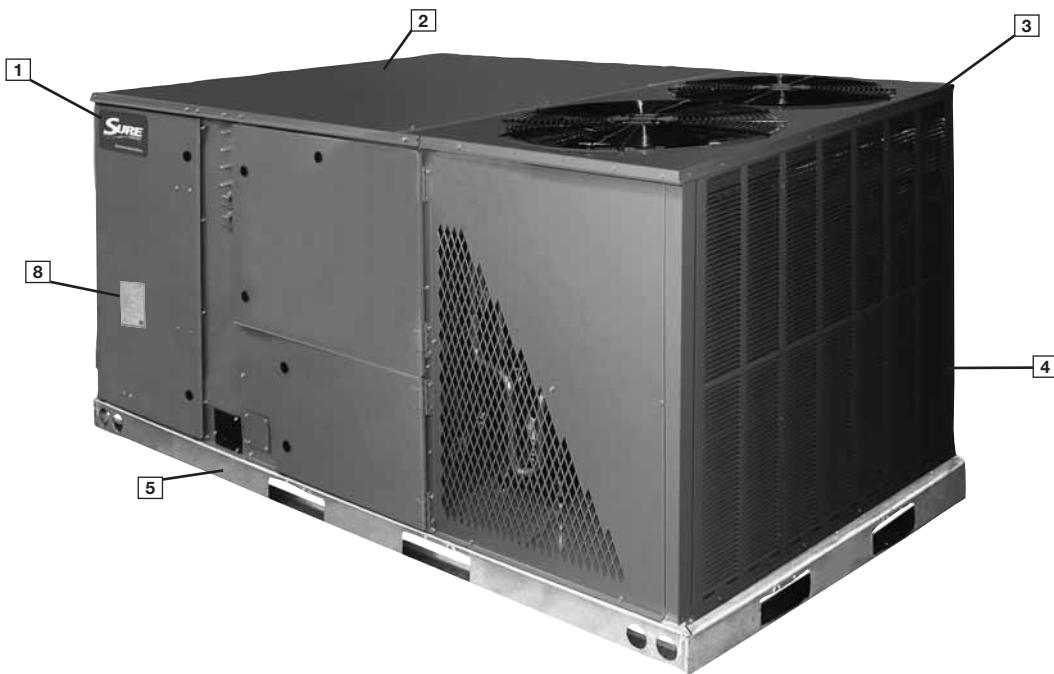


STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Single stage compressor.
- Convertible airflow.
- Orifice metering system on 7.5 and 10 ton. TXV metering on 12.5 ton.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintained high efficiencies.
- MicroChannel outdoor coil.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Mechanical fasteners, door with heavy-duty gasketing.
- Slide Out Indoor fan assembly for added service convenience.

- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator and condenser 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.
- Molded compressor plug.
- Supplemental electric heat provides 100% efficient heating.

Sure Comfort® RLKL-B Package Air Conditioner



Sure Comfort 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 Sure Comfort label (1) identifies the brand to the customer. The sheet-metal cabinet (2) uses nothing less than 18-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a one-piece top with a 1/8" drip lip (3), gasket-protected panels and screws. The Sure Comfort hail guard (optional) (4) is its trademark, and sets the standard for coil protection in the industry. Every Sure Comfort 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 insulation has been placed on the underside of the basepan, removing areas that would allow for potential moisture accumulation, which can facilitate growth of harmful bacteria. All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden. The drainpan (7) is made of material that resists the growth of harmful bacteria and is sloped for the latest IAQ benefits. Furthermore, the drain pan slides out for easy cleaning.



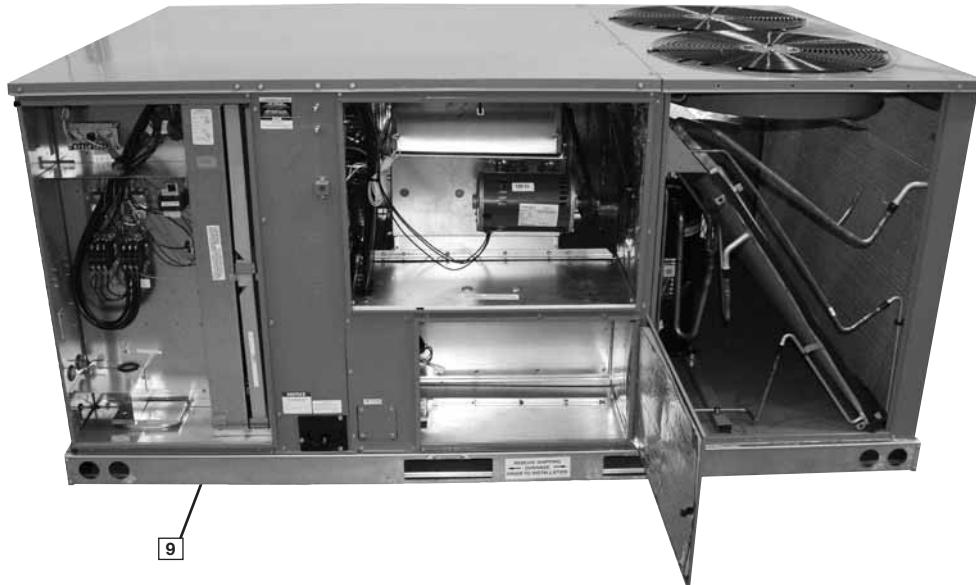
During development, each unit was tested to U.L. 1995, AHRI 340-370 and other Sure Comfort-required reliability tests. Sure Comfort adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can rest assured that when a Sure Comfort package unit arrives at the job, it is ready to go with a factory charge and quality checks. Each unit also proudly displays the "Made in the USA" designation.

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

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

The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having this information on the inside will assure model identification for the life of the product. The production line quality test assurance label is also placed in this location (8). The two-inch throwaway filters (9) are easily removed on a tracked system for easy replacement.





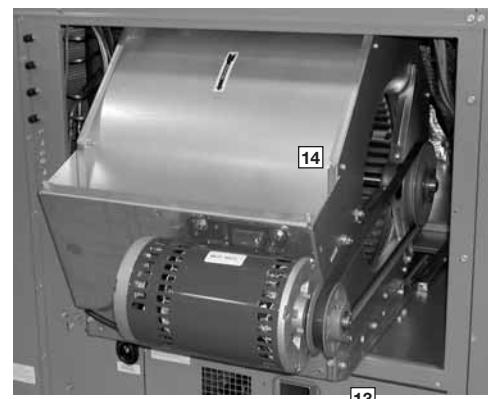
Inside the control box (**10**), each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The control transformer has a low voltage circuit breaker that trips if a low voltage electrical short occurs. There is a blower contactor and compressor for each compressor.

For added convenience in the field, a factory-installed convenience outlet (**11**) is available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made integrated cooling control. The high-voltage connection is terminated at the number 1 compressor contactor. The suggested mounting for the field-installed disconnect is on the exterior side of the electrical control box.

To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection (**12**). With the gauge ports mounted externally, an accurate diagnostic of system operation can be performed quickly and easily. The blower compartment is to the right of the gauge ports and can be

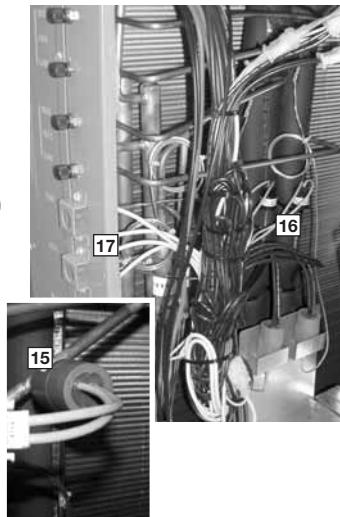


accessed by removing mechanical turn fasteners. To allow easy maintenance of the blower assembly, the entire assembly easily slides out by removing the 3/8" screws from the blower retention bracket. The adjustable motor pulley (**13**) can easily be adjusted by loosening the bolts on either side of the 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, Sure Comfort 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.



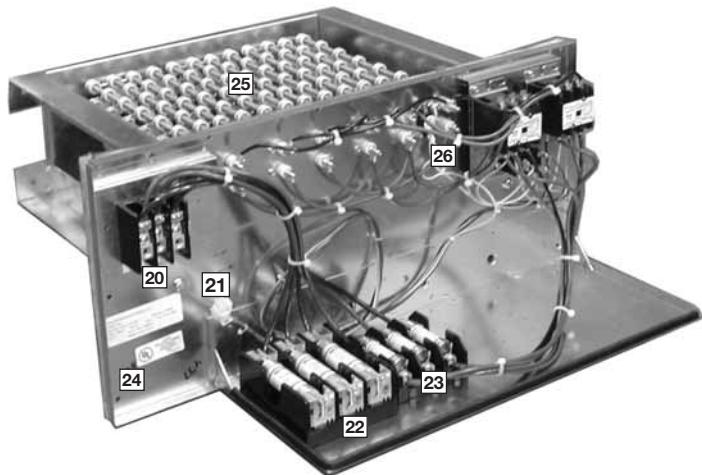
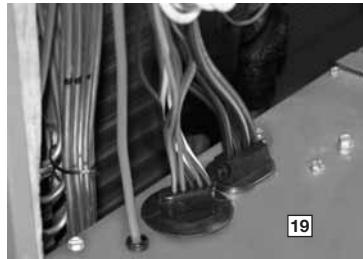
Sure Comfort® RLKL-B Package Air Conditioner

Also inside the blower compartment is the low-ambient control (**15**), low-pressure switch (**16**), high-pressure switch (**17**) and freeze stat refrigerant safety device (**18**) (optional). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch will shut off the compressors if pressures exceeds, 610 PSIG are detected, this may occur if the outdoor fan motor fails. The low-pressure switch shuts off the compressors if low pressure is detected due to loss of charge. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow. Each factory-installed option is brazed into the appropriate high or low side and wired appropriately. Use of polarized plugs and shadern fittings allow for easy field installation.



Inside the blower compartment the interlaced evaporator can also be viewed. The evaporator uses enhanced fin technology for maximum heat transfer. The fixed orifice metering device (TXV's on 12.5 ton) assures even distribution of refrigerant throughout the evaporator. MicroChannel technology is used on outdoor coil.

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 (**19**) 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.



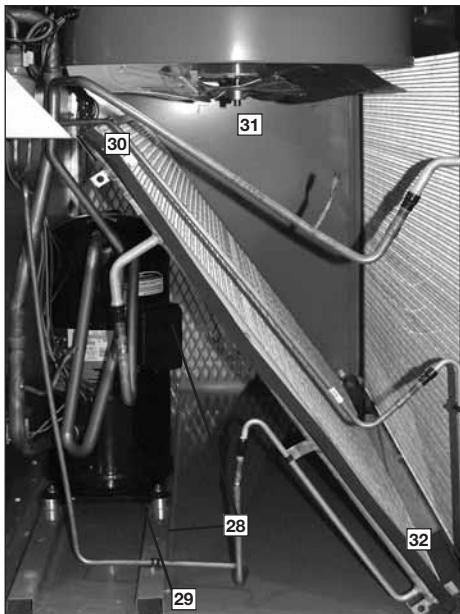
The heating compartment contains the latest electric furnace technology on the market. The 100% efficient electric furnace can be factory-installed or easily field-installed. Built with ease-of-installation in mind, the electric furnace is completely wired for slide-in, plug-and-play installation in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

Power hook-up in the field is easy with single-point wiring to a terminal block (**20**) and a polarized plug for the low-voltage connection (**21**). The electric furnace comes with fuses for the unit (**22**) and for the electric furnace (**23**), and is UL certified (**24**). The electric heating elements are of a wound-wire construction (**25**) and isolated with ceramic bushings. The limit switch (**26**) protects the design from over-temperature conditions. Each electric furnace has the capability to be converted from single-stage operation to two-stage operation by removing a jumper on the low-voltage terminal strip.

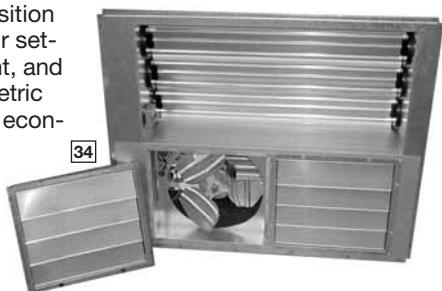
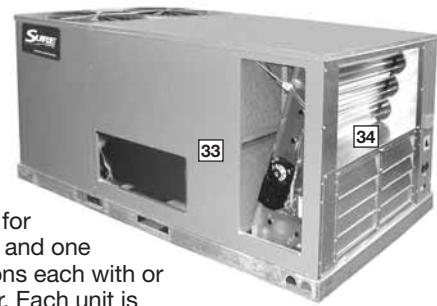
The compressor compartment houses the heart-beat of the unit. The scroll compressor (28) is known for its long life, and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (29) to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing.

Each unit comes standard with filter dryer (30). The condenser fan motor (31) can easily be accessed and maintained through the compressor compartment. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

The outdoor coil uses the latest MicroChannel technology (32) for the most effective method of heat transfer. The outdoor coil is protected by optional louvered panels, which allow unobstructed airflow while protecting the unit from both Mother Nature and vandalism.



Each unit is designed for both downflow or horizontal applications (33) for job configuration flexibility. The return air compartment can also contain an economizer (34). Four models exits, one for downflow applications, and one for horizontal applications each with or without smoke detector. Each unit is pre-wired for the economizer to allow quick plug-in installation. The 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 setpoint, an outdoor-air setpoint, a mix-air setpoint, and a CO₂ setpoint. Barometric relief is standard on all economizers. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plug-in assembly. The wire harness to the economizer also has accommodations for a smoke detector.



The Sure Comfort roofcurb (35) is made for toolless assembly at the jobsite by engaging a pin into the hinged corner brackets into the adjacent curb sides, which makes the assembly process quick and easy.



Sure Comfort® RLKL-B Package Air Conditioner

To select an RLKL- 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:

Total cooling capacity—	106,000 BTUH [31.26 kW]
Sensible cooling capacity—	82,000 BTUH [24.03 kW]
Heating capacity—	150,000 BTUH [43.96 kW]
*Condenser Entering Air—	95°F [35°C] DB
*Evaporator Mixed Air Entering—	65°F [18°C] WB; 78°F [26°C] DB
*Indoor Air Flow (vertical)—	3600 CFM [1699 L/s]
*External Static Pressure—	.40 in. WG

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

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

$$\text{Total Capacity} = 118,900 \text{ BTUH} [34.80 \text{ kW}]$$

$$\text{Sensible Capacity} = 99,950 \text{ BTUH} [29.29 \text{ kW}]$$

Power Input (Compressor and Cond. Fans) = 8,950 watts

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

$$\text{Sensible Capacity} = 92,268 \text{ BTUH} [27.24 \text{ kW}]$$

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

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

$$\text{Total Capacity, } 118,900 \times .98 = 116,522 \text{ BTUH} [34.15 \text{ kW}]$$

$$\text{Sensible Capacity, } 92,268 \times .95 = 87,655 \text{ BTUH} [25.67 \text{ kW}]$$

$$\text{Power Input } 11,650 \times .99 = 8,861 \text{ Watts}$$

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

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

Enter Indoor Blower performance table at 3600 CFM [1699 L/s]. Total ESP (external static pressure) per the spec of .40 in. includes the system duct and grilles. Add from the table "Component Air Resistance," .076 for wet coil, .13 for vertical air flow, for a total selection static pressure of .606 (.6) inches of water, and determine:

$$\text{RPM} = 796$$

$$\text{WATTS} = 1,650$$

DRIVE = L (standard 2 H.P. motor)

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

$$\text{BTUH} = 1,650 \times 3.412 = 5,630$$

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

$$\text{Net Total Capacity} = 116,522 - 5,630 = 110,892 \text{ BTUH} [32.5 \text{ kW}]$$

$$\text{Net Sensible Capacity} = 87,655 - 5,630 = 82,025 \text{ BTUH} [24.04 \text{ kW}]$$

7. CALCULATE UNIT INPUT AND JOB EER.

$$\text{Total Power Input} = 88,610 \text{ (step 3)} + 1,650 \text{ (step 4)} = 10,511 \text{ Watts}$$

$$\text{EER} = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{110,892}{10,511} = 10.55$$

8. SELECT UNIT HEATING CAPACITY.

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

CC51C Heater Kit

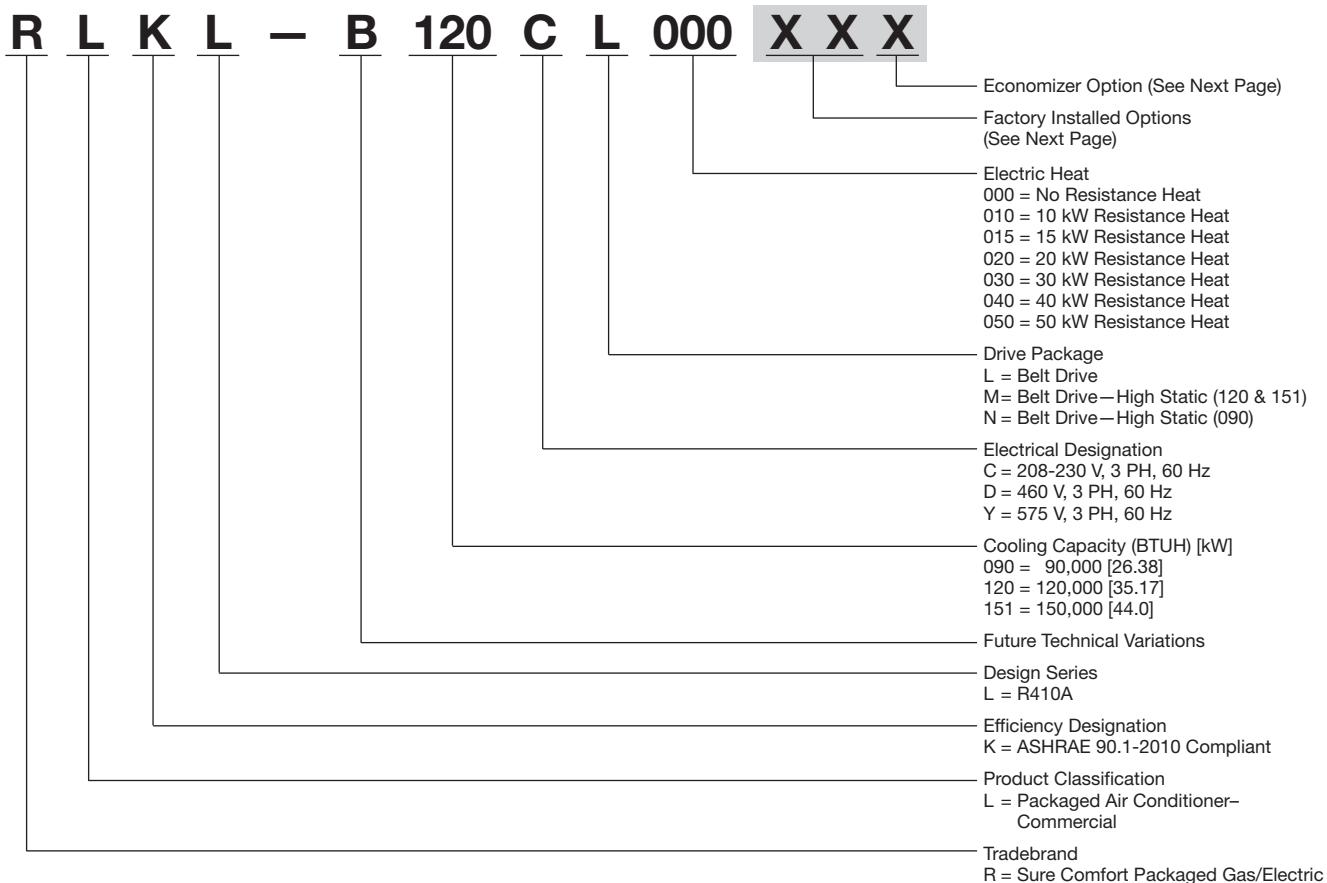
$$\text{kW} \times 3412 = 163,776 \text{ BTUH} [48.00 \text{ kW}]$$

$$+ 5,630 \text{ BTUH} [1.65 \text{ kW}]$$

$$\text{Heating Capacity} = 169,406 \text{ BTUH} [49.65 \text{ kW}]$$

*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



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7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW]

Option Code	Hail Guard	Non-Powered Convenience Outlet	Low Ambient/Freeze Stat
AD	X		
AG		X	
AP			X
BY	X		X
BJ	X	X	
CX	X	X	X
JC		X	X

"X" indicates factory installed option.

**ECONOMIZER SELECTION FOR LKL
7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW]**

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.

Instructions for Factory Installed Option(s) Selection

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

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

Proceed to Step 2.

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

Examples:

RLKL-B120CL000this unit has no factory installed options.

RLKL-B120CL000ADAthis unit is equipped with hail guards.

RLKL-B120CL000BYAthis unit is equipped with hail guards, low ambient and unit freeze stat.

RLKL-B120CL000BYFthis unit is equipped as above and includes an Economizer with single enthalpy sensor and with barometric relief.

RLKL-B120CL000AAGthis unit is equipped with an Economizer with single enthalpy sensor and barometric relief with smoke detector.

[] Designates Metric Conversions

**NOM. SIZES 7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW]
ASHRAE 90.1-2010 COMPLIANT MODELS**

Model RLKL-	B090CL	B090CM	B090CN	B090DL
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]
AHRI Net Cooling Capacity Btu [kW]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]
Net Latent Capacity Btu [kW]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]
IEER ³	12.1	12.1	12.1	12.1
Net System Power kW	7.5	7.5	7.5	7.5
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)⁴	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4500 [2124]	4500 [2124]	4500 [2124]	4500 [2124]
No. Motors/HP	1 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	2	2	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	117.6 [3334]	117.6 [3334]	117.6 [3334]	117.6 [3334]
Weights				
Net Weight lbs. [kg]	882 [401]	882 [401]	890 [404]	882 [401]
Ship Weight lbs. [kg]	919 [417]	919 [417]	927 [420]	919 [417]

See Page 17 for Notes.

[] Designates Metric Conversions

NOM. SIZES 7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW]

ASHRAE 90.1-2010 COMPLIANT MODELS

Model RLKL-	B090DM	B090DN	B090YL	B090YM
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]
AHRI Net Cooling Capacity Btu [kW]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]
Net Latent Capacity Btu [kW]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]
IEER ³	12.1	12.1	12.1	12.1
Net System Power kW	7.5	7.5	7.5	7.5
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)⁴	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4500 [2124]	4500 [2124]	4500 [2124]	4500 [2124]
No. Motors/HP	1 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	2	3	2	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	117.6 [3334]	117.6 [3334]	117.6 [3334]	117.6 [3334]
Weights				
Net Weight lbs. [kg]	882 [401]	890 [404]	882 [401]	882 [401]
Ship Weight lbs. [kg]	919 [417]	927 [420]	919 [420]	919 [420]

See Page 17 for Notes.

[] Designates Metric Conversions

NOM. SIZES 7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RLKL-	B090YN	B120CL	B120CM	B120DL
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	87,000 [25.49]	123,000 [36.04]	123,000 [36.04]	123,000 [36.04]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2800/2925 [1321/1380]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	4000/3600 [1888/1699]
AHRI Net Cooling Capacity Btu [kW]	84,000 [24.61]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	87,200 [25.55]	87,200 [25.55]	87,200 [25.55]
Net Latent Capacity Btu [kW]	19,200 [5.63]	31,800 [9.32]	31,800 [9.32]	31,800 [9.32]
IEER ³	12.1	12.2	12.2	12.2
Net System Power kW	7.5	10.62	10.62	10.62
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)⁴	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	13.5 [1.25]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4500 [2124]	8400 [3964]	8400 [3964]	8400 [3964]
No. Motors/HP	1 at 1/2 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	2	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	117.6 [3334]	204.8 [5806]	204.8 [5806]	204.8 [5806]
Weights				
Net Weight lbs. [kg]	890 [404]	984 [446]	992 [450]	984 [446]
Ship Weight lbs. [kg]	927 [420]	1021 [463]	1029 [467]	1021 [463]

See Page 17 for Notes.

[] Designates Metric Conversions

NOM. SIZES 7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW]

ASHRAE 90.1-2010 COMPLIANT MODELS

Model RLKL-	B120DM	B120DL	B120YM	B151CL
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	123,000 [36.04]	123,000 [36.04]	123,000 [36.04]	146,000 [42.78]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	5000/4225 [2360/1994]
AHRI Net Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	140,000 [41.02]
Net Sensible Capacity Btu [kW]	87,200 [25.55]	87,200 [25.55]	87,200 [25.55]	99,500 [29.15]
Net Latent Capacity Btu [kW]	31,800 [9.32]	31,800 [9.32]	31,800 [9.32]	40,500 [11.87]
IEER ³	12.2	12.2	12.2	10.8
Net System Power [kW]	10.62	10.62	10.62	12.73
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁴	88	88	88	88
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth In. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	2 / 23 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	4 / 15 [6]
Refrigerant Control	Orifices	Orifices	Orifices	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8400 [3964]	8400 [3964]	8400 [3964]	8000 [3775]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/2 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt (Adjustable)/Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	204.8 [5806]	204.8 [5806]	204.8 [5806]	147.2/152 [4173/4309]
Weights				
Net Weight lbs. [kg]	992 [450]	984 [446]	992 [450]	1230 [558]
Ship Weight lbs. [kg]	1029 [467]	1021 [463]	1029 [467]	1267 [575]

See Page 17 for Notes.

[] Designates Metric Conversions

NOM. SIZES 7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RLKL-	B151CM	B151DL	B151DM	B151YL
Cooling Performance¹	CONTINUED →			
Gross Cooling Capacity Btu [kW]	146,000 [42.78]	146,000 [42.78]	146,000 [42.78]	146,000 [42.78]
EER/SEER ²	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	5000/4225 [2360/1994]	5000/4225 [2360/1994]	5000/4225 [2360/1994]	5000/4225 [2360/1994]
AHRI Net Cooling Capacity Btu [kW]	140,000 [41.02]	140,000 [41.02]	140,000 [41.02]	140,000 [41.02]
Net Sensible Capacity Btu [kW]	99,500 [29.15]	99,500 [29.15]	99,500 [29.15]	99,500 [29.15]
Net Latent Capacity Btu [kW]	40,500 [11.87]	40,500 [11.87]	40,500 [11.87]	40,500 [11.87]
IEER ³	10.8	10.8	10.8	10.8
Net System Power [kW]	12.73	12.73	12.73	12.73
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁴	88	88	88	88
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth In. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt (Adjustable)/Single	Belt (Adjustable)/Single	Belt (Adjustable)/Single	Belt (Adjustable)/Single
No. Motors	1	1	1	1
Motor HP	5	3	5	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	56	184	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	147.2/152 [4173/4309]	147.2/152 [4173/4309]	147.2/152 [4173/4309]	147.2/152 [4173/4309]
Weights				
Net Weight lbs. [kg]	1238 [562]	1230 [558]	1238 [562]	1230 [558]
Ship Weight lbs. [kg]	1275 [578]	1267 [575]	1275 [578]	1267 [575]

See Page 17 for Notes.

[] Designates Metric Conversions

NOM. SIZES 7.5, 10, & 12.5 TON [26.4, 35.2 & 44.0 kW]

ASHRAE 90.1-2010 COMPLIANT MODELS

Model RLKL-	B151YM
Cooling Performance¹	
Gross Cooling Capacity Btu [kW]	146,000 [42.78]
EER/SEER ²	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	5000/4225 [2360/1994]
AHRI Net Cooling Capacity Btu [kW]	140,000 [41.02]
Net Sensible Capacity Btu [kW]	99,500 [29.15]
Net Latent Capacity Btu [kW]	40,500 [11.87]
IEER ³	10.8
Net System Power [kW]	12.73
Compressor	
No./Type	2/Scroll
Outdoor Sound Rating (dB)⁴	
	88
Outdoor Coil—Fin Type	
Tube Type	Louvered
MicroChannel Depth In. [mm]	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]
Rows / FPI [FPcm]	27 [2.51]
	2 / 23 [9]
Indoor Coil—Fin Type	
Tube Type	Rifled
Tube Size in. [mm]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]
Rows / FPI [FPcm]	4 / 15 [6]
Refrigerant Control	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]
Outdoor Fan—Type	
No. Used/Diameter in. [mm]	Propeller
2/24 [609.6]	
Drive Type/No. Speeds	Direct/1
CFM [L/s]	8000 [3775]
No. Motors/HP	2 at 1/2 HP
Motor RPM	1075
Indoor Fan—Type	
No. Used/Diameter in. [mm]	FC Centrifugal
1/15x15 [381x381]	
Drive Type/No. Speeds	Belt (Adjustable)/Single
No. Motors	1
Motor HP	5
Motor RPM	1725
Motor Frame Size	184
Filter—Type	
Furnished	Disposable
Yes	
(NO.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	
	147.2/152 [4173/4309]
Weights	
Net Weight lbs. [kg]	1238 [562]
Ship Weight lbs. [kg]	1275 [578]

See Page 17 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 and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. IEER is rated in accordance with AHRI Standard 340/360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GROSS SYSTEMS PERFORMANCE DATA—B090

ENTERING INDOOR AIR @ 80°F [26.7°C] dB E ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		3600 [1699]	2925 [1380]	2400 [1133]	3600 [1699]	2925 [1380]	2400 [1133]	3600 [1699]	2925 [1380]	2400 [1133]	
DR ①		.05	.09	.11	.05	.09	.11	.05	.09	.11	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	106.3 [31.2]	102.1 [29.9]	98.7 [28.9]	100.6 [29.5]	96.5 [28.3]	93.4 [27.4]	97.3 [28.5]	93.4 [27.4]	90.4 [26.5]
	75 [23.9]	Sens BTUH [kW]	73.3 [21.5]	62.0 [18.2]	53.7 [15.7]	84.3 [24.7]	72.0 [21.1]	63.1 [18.5]	94.8 [27.8]	81.7 [24.0]	72.1 [21.1]
	75 [23.9]	Power	5.7	5.5	5.5	5.6	5.4	5.4	5.4	5.3	5.2
	80 [26.7]	Total BTUH [kW]	104.4 [30.6]	100.2 [29.4]	96.9 [28.4]	98.6 [28.9]	94.6 [27.7]	91.6 [26.8]	95.3 [27.9]	91.5 [26.8]	88.5 [25.9]
	80 [26.7]	Sens BTUH [kW]	72.6 [21.3]	61.3 [18.0]	53.1 [15.6]	83.3 [24.4]	71.2 [20.9]	62.5 [18.3]	93.9 [27.5]	81.0 [23.7]	71.5 [21.0]
	80 [26.7]	Power	6.0	5.8	5.7	5.8	5.7	5.6	5.7	5.6	5.5
	85 [29.4]	Total BTUH [kW]	102.0 [29.9]	97.9 [28.7]	94.7 [27.8]	96.3 [28.2]	92.4 [27.1]	89.4 [26.2]	93.0 [27.3]	89.2 [26.1]	86.3 [25.3]
	85 [29.4]	Sens BTUH [kW]	71.3 [20.9]	60.3 [17.7]	52.3 [15.3]	82.2 [24.1]	70.3 [20.6]	61.7 [18.1]	92.8 [27.2]	80.0 [23.5]	70.6 [20.7]
	85 [29.4]	Power	6.3	6.1	6.0	6.2	6.0	5.9	6.0	5.9	5.8
	90 [32.2]	Total BTUH [kW]	99.3 [29.1]	95.3 [27.9]	92.2 [27.0]	93.5 [27.4]	89.8 [26.3]	86.8 [25.4]	90.3 [26.5]	86.6 [25.4]	83.8 [24.6]
	90 [32.2]	Sens BTUH [kW]	69.9 [20.5]	59.1 [17.3]	51.3 [15.0]	80.6 [23.6]	69.1 [20.3]	60.6 [17.8]	90.3 [26.5]	78.7 [23.1]	69.5 [20.4]
	90 [32.2]	Power	6.6	6.5	6.4	6.5	6.3	6.2	6.4	6.2	6.1
	95 [35]	Total BTUH [kW]	96.2 [28.2]	92.3 [27.1]	89.3 [26.2]	90.5 [26.5]	86.8 [25.4]	84.0 [24.6]	87.2 [25.6]	83.7 [24.5]	80.9 [23.7]
	95 [35]	Sens BTUH [kW]	68.1 [20.0]	57.6 [16.9]	50.0 [14.7]	79.0 [23.2]	67.6 [19.8]	59.4 [17.4]	87.2 [25.6]	77.3 [22.7]	68.3 [20.0]
	95 [35]	Power	6.9	6.8	6.7	6.8	6.7	6.6	6.7	6.6	6.5
	100 [37.8]	Total BTUH [kW]	92.7 [27.2]	89.0 [26.1]	86.1 [25.2]	87.0 [25.5]	83.5 [24.5]	80.8 [23.7]	83.7 [24.5]	80.3 [23.5]	77.7 [22.8]
	100 [37.8]	Sens BTUH [kW]	66.0 [19.4]	55.9 [16.4]	48.6 [14.3]	76.9 [22.5]	65.9 [19.3]	57.9 [17.0]	83.7 [24.5]	75.5 [22.1]	66.8 [19.6]
	100 [37.8]	Power	7.3	7.1	7.0	7.2	7.0	6.9	7.1	6.9	6.8
	105 [40.6]	Total BTUH [kW]	88.9 [26.1]	85.3 [25.0]	82.5 [24.2]	83.2 [24.4]	79.8 [23.4]	77.2 [22.6]	79.9 [23.4]	76.7 [22.5]	74.2 [21.7]
	105 [40.6]	Sens BTUH [kW]	63.7 [18.7]	53.9 [15.8]	46.8 [13.7]	74.5 [21.8]	63.9 [18.7]	56.2 [16.5]	79.9 [23.4]	73.6 [21.6]	65.1 [19.1]
	105 [40.6]	Power	7.6	7.5	7.4	7.5	7.4	7.3	7.4	7.3	7.2
	110 [43.3]	Total BTUH [kW]	84.7 [24.8]	81.3 [23.8]	78.7 [23.1]	79.0 [23.2]	75.8 [22.2]	73.3 [21.5]	75.7 [22.2]	72.6 [21.3]	70.3 [20.6]
	110 [43.3]	Sens BTUH [kW]	61.0 [17.9]	51.7 [15.2]	45.0 [13.2]	71.9 [21.1]	61.7 [18.1]	54.2 [15.9]	75.7 [22.2]	71.3 [20.9]	63.2 [18.5]
	110 [43.3]	Power	8.0	7.9	7.7	7.9	7.8	7.6	7.8	7.7	7.5
	115 [46.1]	Total BTUH [kW]	80.1 [23.5]	76.9 [22.5]	74.4 [21.8]	74.4 [21.8]	71.4 [20.9]	69.1 [20.3]	71.1 [20.8]	68.3 [20.0]	66.0 [19.3]
	115 [46.1]	Sens BTUH [kW]	58.0 [17.0]	49.2 [14.4]	42.8 [12.6]	68.9 [20.2]	59.2 [17.4]	52.1 [15.3]	71.1 [20.8]	68.3 [20.0]	61.1 [17.9]
	115 [46.1]	Power	8.4	8.3	8.1	8.3	8.2	8.0	8.2	8.1	7.9

GROSS SYSTEMS PERFORMANCE DATA—B120

ENTERING INDOOR AIR @ 80°F [26.7°C] dB E ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		4800 [2265]	3600 [1699]	3200 [1510]	4800 [2265]	3600 [1699]	3200 [1510]	4800 [2265]	3600 [1699]	3200 [1510]	
DR ①		.0	.04	.07	.0	.04	.07	.0	.04	.07	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	153.4 [45.0]	144.6 [42.4]	141.7 [41.5]	146.5 [42.9]	138.2 [40.5]	135.4 [39.7]	141.4 [41.4]	133.3 [39.1]	130.6 [38.3]
	75 [23.9]	Sens BTUH [kW]	105.0 [30.8]	82.1 [24.1]	75.1 [22.0]	123.1 [36.1]	98.2 [28.8]	90.5 [26.5]	140.1 [41.1]	113.1 [33.2]	104.7 [30.7]
	75 [23.9]	Power	7.8	7.6	7.5	7.6	7.4	7.3	7.4	7.2	7.2
	80 [26.7]	Total BTUH [kW]	150.0 [44.0]	141.5 [41.5]	138.6 [40.6]	143.2 [42.0]	135.0 [39.6]	132.3 [38.8]	138.0 [40.4]	130.2 [38.2]	127.5 [37.4]
	80 [26.7]	Sens BTUH [kW]	103.2 [30.3]	80.8 [23.7]	73.9 [21.7]	121.3 [35.6]	96.8 [28.4]	89.2 [26.2]	138.0 [40.5]	111.8 [32.8]	103.4 [30.3]
	80 [26.7]	Power	8.2	8.0	7.9	8.0	7.8	7.7	7.8	7.6	7.5
	85 [29.4]	Total BTUH [kW]	146.3 [42.9]	138.0 [40.4]	135.2 [39.6]	139.5 [40.9]	131.5 [38.5]	128.8 [37.7]	134.3 [39.4]	126.6 [37.1]	124.1 [36.4]
	85 [29.4]	Sens BTUH [kW]	101.1 [29.6]	79.2 [23.2]	72.4 [21.2]	119.3 [35.0]	95.2 [27.9]	87.7 [25.7]	134.3 [39.4]	110.2 [32.3]	102.1 [29.9]
	85 [29.4]	Power	8.6	8.3	8.3	8.4	8.2	8.1	8.2	8.0	7.9
	90 [32.2]	Total BTUH [kW]	142.2 [41.7]	134.1 [39.3]	131.4 [38.5]	135.4 [39.7]	127.6 [37.4]	125.0 [36.6]	130.2 [38.2]	122.8 [36.0]	120.3 [35.3]
	90 [32.2]	Sens BTUH [kW]	98.9 [29.0]	77.5 [22.7]	70.9 [20.8]	117.1 [34.3]	93.5 [27.4]	86.2 [25.3]	130.2 [38.2]	108.5 [31.8]	100.5 [29.5]
	90 [32.2]	Power	9.0	8.7	8.7	8.8	8.6	8.5	8.6	8.4	8.3
	95 [35]	Total BTUH [kW]	137.7 [40.4]	129.8 [38.0]	127.2 [37.3]	130.9 [38.4]	123.4 [36.2]	120.9 [35.4]	125.7 [36.8]	118.5 [34.7]	116.1 [34.0]
	95 [35]	Sens BTUH [kW]	96.4 [28.3]	75.5 [22.1]	69.1 [20.3]	114.5 [33.6]	91.6 [26.9]	84.5 [24.8]	125.7 [36.8]	106.6 [31.3]	98.8 [29.0]
	95 [35]	Power	9.4	9.2	9.1	9.2	9.0	8.9	9.0	8.8	8.7
	100 [37.8]	Total BTUH [kW]	132.8 [38.9]	125.2 [36.7]	122.7 [36.0]	126.0 [36.9]	118.8 [34.8]	116.4 [34.1]	120.8 [35.4]	113.9 [33.4]	111.6 [32.7]
	100 [37.8]	Sens BTUH [kW]	93.6 [27.4]	73.4 [21.5]	67.2 [19.7]	111.7 [32.7]	89.5 [26.2]	82.6 [24.2]	120.8 [35.4]	104.5 [30.6]	96.9 [28.4]
	100 [37.8]	Power	9.9	9.6	9.5	9.7	9.4	9.3	9.5	9.2	9.1
	105 [40.6]	Total BTUH [kW]	127.6 [37.4]	120.3 [35.3]	117.9 [34.6]	120.7 [35.4]	113.8 [33.4]	111.5 [32.7]	115.6 [33.9]	109.0 [31.9]	106.8 [31.3]
	105 [40.6]	Sens BTUH [kW]	90.7 [26.6]	71.2 [20.9]	65.2 [19.1]	108.7 [31.9]	87.2 [25.6]	80.5 [23.6]	115.6 [33.9]	102.2 [30.0]	94.8 [27.8]
	105 [40.6]	Power	10.4	10.1	10.0	10.2	9.9	9.8	10.0	9.7	9.6
	110 [43.3]	Total BTUH [kW]	121.9 [35.7]	115.0 [33.7]	112.6 [33.0]	115.1 [33.7]	108.5 [31.8]	106.3 [31.2]	109.9 [32.2]	103.6 [30.4]	101.5 [29.7]
	110 [43.3]	Sens BTUH [kW]	87.4 [25.6]	68.7 [20.1]	62.9 [18.4]	105.5 [30.9]	84.7 [24.8]	78.2 [22.9]	109.9 [32.2]	99.7 [29.2]	92.5 [27.1]
	110 [43.3]	Power	10.9	10.6	10.5	10.7	10.4	10.3	10.5	10.2	10.1
	115 [46.1]	Total BTUH [kW]	115.9 [34.0]	109.3 [32.0]	107.1 [31.4]	109.0 [31.9]	102.8 [30.1]	100.7 [29.5]	103.9 [30.5]	98.0 [28.7]	96.0 [28.1]
	115 [46.1]	Sens BTUH [kW]	84.0 [24.6]	66.1 [19.4]	60.6 [17.8]	102.0 [29.9]	82.1 [24.1]	75.9 [22.3]	103.9 [30.5]	97.1 [28.5]	90.2 [26.4]
	115 [46.1]	Power	11.4	11.1	11.0	11.2	10.9	10.8	11.0	10.7	10.6

DR —Depression ratio
dB E —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 E - 80)].

[] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—B151

ENTERING INDOOR AIR @ 80°F [26.7°C] dB E ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		5070 [2393]	4225 [1994]	3380 [1595]	5070 [2393]	4225 [1994]	3380 [1595]	5070 [2393]	4225 [1994]	3380 [1595]	
DR ①		0.11	0.08	0.05	0.11	0.08	0.05	0.11	0.08	0.05	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	180.7 [52.9]	174.3 [51.1]	168 [49.2]	171.0 [50.1]	165 [48.3]	159 [46.6]	163 [47.8]	157.3 [46.1]	151.6 [44.4]
		Sens BTUH [kW]	98.6 [28.9]	90.2 [26.4]	81.8 [24.0]	119.8 [35.1]	109.6 [32.1]	99.4 [29.1]	137.4 [40.3]	125.7 [36.8]	114 [33.4]
		Power	9.2	9.1	8.9	9	8.8	8.7	8.8	8.6	8.5
	80 [26.7]	Total BTUH [kW]	176.1 [51.6]	169.9 [49.8]	163.7 [48.0]	166.4 [48.8]	160.6 [47.1]	154.7 [45.3]	158.4 [46.4]	152.9 [44.8]	147.3 [43.2]
		Sens BTUH [kW]	98.5 [28.9]	90.1 [26.4]	81.7 [23.9]	119.7 [35.1]	109.5 [32.1]	99.3 [29.1]	137.3 [40.2]	125.6 [36.8]	113.9 [33.4]
		Power	9.7	9.5	9.4	9.5	9.3	9.2	9.3	9.1	8.9
	85 [29.4]	Total BTUH [kW]	171.3 [50.2]	165.3 [48.4]	159.3 [46.7]	161.6 [47.4]	156 [45.7]	150.3 [44.0]	153.6 [45.0]	148.3 [43.4]	142.9 [41.9]
		Sens BTUH [kW]	97.8 [28.7]	89.4 [26.2]	81.1 [23.8]	119 [34.9]	108.8 [31.9]	98.7 [28.9]	136.6 [40.0]	124.9 [36.6]	113.3 [33.2]
		Power	10.2	10	9.9	10	9.8	9.6	9.8	9.6	9.4
	90 [32.2]	Total BTUH [kW]	166.4 [48.8]	160.5 [47.0]	154.7 [45.3]	156.7 [45.9]	151.2 [44.3]	145.7 [42.7]	148.7 [43.6]	143.5 [42.0]	138.2 [40.5]
		Sens BTUH [kW]	96.4 [28.2]	88.2 [25.8]	79.9 [23.4]	117.6 [34.5]	107.6 [31.5]	97.5 [28.6]	135.2 [39.6]	123.7 [36.2]	112.1 [32.9]
		Power	10.8	10.6	10.4	10.5	10.4	10.2	10.3	10.1	9.9
	95 [35]	Total BTUH [kW]	161.2 [47.2]	155.6 [45.6]	149.9 [43.9]	151.5 [44.4]	146.2 [42.8]	140.9 [41.3]	143.5 [42.1]	138.5 [40.6]	133.5 [39.1]
		Sens BTUH [kW]	94.4 [27.7]	86.3 [25.3]	78.3 [22.9]	115.6 [33.9]	105.7 [31.0]	95.8 [28.1]	133.2 [39.0]	121.8 [35.7]	110.4 [32.4]
		Power	11.3	11.1	10.9	11.1	10.9	10.7	10.9	10.7	10.5
	100 [37.8]	Total BTUH [kW]	155.9 [45.7]	150.4 [44.1]	144.9 [42.5]	146.2 [42.8]	141 [41.3]	135.9 [39.8]	138.2 [40.5]	133.3 [39.1]	128.5 [37.7]
		Sens BTUH [kW]	91.7 [26.9]	83.9 [24.6]	76 [22.3]	112.9 [33.1]	103.3 [30.3]	93.6 [27.4]	130.5 [38.2]	119.4 [35]	108.2 [31.7]
		Power	11.9	11.7	11.5	11.7	11.5	11.3	11.5	11.3	11.1
	105 [40.6]	Total BTUH [kW]	150.3 [44.1]	145.1 [42.5]	139.8 [41.0]	140.6 [41.2]	135.7 [39.8]	130.8 [38.3]	132.7 [38.9]	128 [37.5]	123.4 [36.1]
		Sens BTUH [kW]	88.4 [25.9]	80.8 [23.7]	73.3 [21.5]	109.6 [32.1]	100.2 [29.4]	90.9 [26.6]	127.2 [37.3]	116.3 [34.1]	105.5 [30.9]
		Power	12.6	12.4	12.1	12.3	12.1	11.9	12.1	11.9	11.7
	110 [43.3]	Total BTUH [kW]	144.6 [42.4]	139.6 [40.9]	134.5 [39.4]	134.9 [39.5]	130.2 [38.2]	125.5 [36.8]	126.9 [37.2]	122.5 [35.9]	118 [34.6]
		Sens BTUH [kW]	84.4 [24.7]	77.2 [22.6]	70 [20.5]	105.6 [30.9]	96.6 [28.3]	87.6 [25.7]	123.2 [36.1]	112.7 [33]	102.2 [29.9]
		Power	13.2	13	12.8	13	12.8	12.6	12.8	12.6	12.3
	115 [46.1]	Total BTUH [kW]	138.7 [40.7]	133.9 [39.2]	129 [37.8]	129 [37.8]	124.5 [36.5]	120 [35.2]	121 [35.5]	116.8 [34.2]	112.6 [33]
		Sens BTUH [kW]	79.8 [23.4]	73 [21.4]	66.2 [19.4]	101 [29.6]	92.4 [27.1]	83.8 [24.5]	118.6 [34.8]	108.5 [31.8]	98.4 [28.8]
		Power	13.9	13.7	13.4	13.7	13.5	13.2	13.5	13.2	13
	120 [48.9]	Total BTUH [kW]	132.6 [38.9]	128 [37.5]	123.3 [36.1]	122.9 [36.0]	118.6 [34.8]	114.3 [33.5]	115 [33.7]	110.9 [32.5]	106.9 [31.3]
		Sens BTUH [kW]	74.6 [21.8]	68.2 [20.0]	61.8 [18.1]	95.8 [28.1]	87.6 [25.7]	79.4 [23.3]	113.4 [33.2]	103.7 [30.4]	94 [27.6]
		Power	14.7	14.4	14.1	14.4	14.2	13.9	14.2	14	13.7
	125 [51.7]	Total BTUH [kW]	126.4 [37.0]	121.9 [35.7]	117.5 [34.4]	116.7 [34.2]	112.6 [33.0]	108.5 [31.8]	108.7 [31.8]	104.9 [30.7]	101 [29.6]
		Sens BTUH [kW]	68.7 [20.1]	62.8 [18.4]	56.9 [16.7]	89.9 [26.3]	82.2 [24.1]	74.5 [21.8]	107.5 [31.5]	98.3 [28.8]	89.1 [26.1]
		Power	15.4	15.1	14.9	15.2	14.9	14.7	15	14.7	14.4

DR —Depression ratio
dB E —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 E - 80)].

[] Designates Metric Conversions

AIRFLOW PERFORMANCE – 7.5 TON [26.4 kW] (B090)

External Static Pressure—Inches of Water [kPa]																																									
Air Flow CFM [l/s]	Capacity 7.5 Ton [26.4 kW]			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																				
2400 [1132]	—	—	—	560	580	664	612	729	645	812	711	890	740	952	770	1014	799	1076	826	1139	857	1200	887	1261	929	1538	987	1623	1075	1905	1105	2050									
2500 [1180]	—	—	—	562	633	593	717	624	791	656	878	720	950	749	1012	778	1074	808	1136	837	1198	866	1260	895	1522	936	1602	985	1687	1053	1704	1046	1879	1075	1995						
2600 [1227]	—	—	—	564	687	603	769	635	853	667	945	729	1010	758	1072	787	1134	816	1196	846	1258	875	1320	914	1581	943	1666	972	1751	1002	1837	1031	1921	1061	2008	1090	2036	1119	2178		
2700 [1274]	—	—	—	539	670	577	744	614	828	648	923	680	1017	737	1070	766	1132	796	1194	825	1256	854	1318	883	1380	921	1645	950	1730	980	1816	1009	1901	1038	1986	1068	2072	1097	2157	1127	2243
2800 [1321]	—	—	—	554	733	590	801	625	887	660	993	746	1131	775	1192	804	1254	834	1316	863	1378	902	1440	978	1709	987	1794	880	1816	1065	1965	1046	2050	1075	2136	1104	2235	1134	2307		
2900 [1369]	—	—	—	569	801	604	866	638	956	671	1069	725	1129	755	1191	784	1313	813	1315	872	1438	902	1683	936	1773	965	1858	994	1944	1024	2029	1053	2115	1102	2220	1112	2255	1141	2371		
3000 [1416]	546	741	854	869	617	931	650	1024	685	1144	734	1189	763	1251	792	1313	822	1375	851	1437	880	1498	913	1752	943	1837	972	1923	1002	2008	1031	2093	1060	2179	1090	2264	1119	2350	1148	2435	
3100 [1463]	560	804	598	940	632	1010	664	1107	713	1187	743	1249	772	1311	801	1373	830	1425	860	1497	889	1559	921	1816	950	1901	979	1987	1009	2072	1038	2157	1068	2243	1097	2307	1126	2414	1156	2499	
3200 [1510]	576	876	612	1011	646	1089	678	1189	722	1247	751	1309	781	1371	810	1433	839	1495	868	1557	888	1619	928	1880	957	1965	987	2051	1023	2136	1045	2222	1075	2307	1104	2392	1134	2478	1163	2563	
3300 [1557]	592	954	628	1096	660	1168	724	1274	731	1307	760	1369	789	1431	817	1493	848	1557	877	1659	935	1944	965	2029	984	2151	1023	2286	1053	2386	1104	2471	1156	2571	1170	2627					
3400 [1605]	607	1030	643	1180	673	1247	710	1327	739	1368	761	1430	798	1491	827	1553	856	1615	886	1767	917	2029	1001	2179	1031	2264	1080	2343	1119	2521	1148	2606	1178	2691							
3500 [1652]	622	1112	658	1271	689	1344	719	1366	748	1428	777	1490	807	1552	836	1613	865	1675	894	1737	920	1987	950	2072	972	2158	1009	2243	1038	2328	1067	2414	1097	2499	1126	2565	1155	2670	1185	2756	
3600 [1699]	638	1222	672	1361	704	1440	728	1426	757	1488	786	1550	815	1612	844	1674	874	1753	903	1797	928	2051	957	2136	986	2222	1016	2307	1045	2393	1075	2478	1104	2563	1133	2649	1163	2747	1192	2820	

Drive Package	L	M	N
Motor H.P. [W]	2.0 [1491.4]	2.0 [1491.4]	3.0 [2237.1]
Blower Sheave	BK110	BK90	BK65
Motor Sheave	1VP-44	1VP-44	1VP-44
Turns Open	1	2	3
RPM	682	650	620

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

2. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum E.S.P.
3. Do not operate above blower RPM shown as motor overloading will occur.
4. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 7.5 TON [26.4 kW] (B090)

ACTUAL—CFW [L/s]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]
TOTAL MBH	0.97	0.98	0.99	1.00	1.01	1.02	1.03
SENSIBLE MBH	0.91	0.94	0.97	1.00	1.02	1.05	1.08
POWER kW	0.99	0.99	0.99	1.00	1.00	1.01	1.02

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

1 Designee Metrics Convictions

COMPONENT AIR RESISTANCE, IWC 7.5 TON [26.4 kW] (B090)

Component	Standard Indoor Airflow—CFM [L/s]						3600 [1699]
	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1604]	
Resistance—Inches Water [kPa]							
Wet Coil	0.047 [0.012]	0.051 [0.013]	0.055 [0.014]	0.060 [0.015]	0.065 [0.016]	0.071 [0.018]	0.076 [0.019]
Concentric Diffuser RXRN-FA65 or FA75 & Transition RXMC-CD04	DNA	0.017 [0.042]	0.020 [0.050]	0.025 [0.062]	0.031 [0.077]	0.037 [0.092]	DNA
Concentric Diffuser RXRN-AA61 or AA71 & Transition RXMC-CE05	DNA	DNA	DNA	DNA	DNA	DNA	0.17 [0.042]
Economizer	0.05 [0.012]	0.06 [0.015]	0.07 [0.017]	0.08 [0.020]	0.09 [0.022]	0.10 [0.025]	0.11 [0.027]
100% R.A. Damper Open	0.03 [0.007]	0.04 [0.009]	0.04 [0.010]	0.05 [0.011]	0.06 [0.012]	0.06 [0.014]	0.06 [0.015]
Horizontal Economizer							
100% R.A. Damper Open	0.08 [0.020]	0.08 [0.020]	0.08 [0.020]	0.10 [0.024]	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]

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NOTE: Add component res

AIRFLOW PERFORMANCE – 10 TON [35.2 kW] (B120)

NOTE: I -Drive left of hold line M-Drive right of hold line

NOTES: 1. Factory sheave settings are shown in bold print.
2. Re-adjustment of sheave required to achieve rated airflow at AHR1 minimum E.S.P.
3. Do not operate above blower RPM shown as motor overloading will occur.

COMPONENT AIR RESISTANCE, IWC 10 TON [35.2 kW] (B120)

Component	Standard Indoor Airflow—CFM [L/s]						Resistance—Inches Water [kPa]
	3200 [1510]	3400 [1604]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	
Wet Coil	0.065 [0.016]	0.071 [0.018]	0.076 [0.019]	0.082 [0.020]	0.087 [0.022]	0.093 [0.023]	0.099 [0.025]
Concentric Diffuser RXRN-FA65 or FA75 & Transition RXMC-CD04	0.31 [0.077]	0.37 [0.092]	DNA	DNA	DNA	DNA	DNA
Concentric Diffuser RXRN-AA61 or AA71 & Transition RXMC-CE05	DNA	DNA	0.17 [0.042]	0.18 [0.045]	0.21 [0.052]	0.24 [0.060]	0.27 [0.067]
Concentric Diffuser RXRN-AA66 or AA76 & Transition RXMC-CF06	DNA	DNA	DNA	DNA	DNA	DNA	DNA
Economizer	0.09 [0.022]	0.10 [0.025]	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]	0.14 [0.035]	0.15 [0.037]
100% R.A. Damper Open	0.05 [0.012]	0.06 [0.014]	0.06 [0.015]	0.07 [0.017]	0.08 [0.020]	0.09 [0.021]	0.09 [0.022]
Horizontal Economizer	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]	0.15 [0.034]	0.16 [0.040]	0.18 [0.044]	0.19 [0.047]
100% R.A. Damper Open	0.05 [0.012]	0.06 [0.014]	0.06 [0.015]	0.07 [0.017]	0.08 [0.020]	0.09 [0.021]	0.10 [0.024]
Horizontal Economizer	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]	0.15 [0.034]	0.16 [0.040]	0.18 [0.044]	0.21 [0.052]
100% OA Damper Open	0.05 [0.012]	0.06 [0.014]	0.06 [0.015]	0.07 [0.017]	0.08 [0.020]	0.09 [0.021]	0.10 [0.024]

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

AIRFLOW CORRECTION FACTORS 10 TON [35.2 kW] (B120)

ACTUAL—CFW	3200	3400	3600	3800	4000	4200	4400	4600	4800
[L/s]	[1510]	[1605]	[1699]	[1793]	[1888]	[1982]	[2077]	[2171]	[2265]
TOTAL MBH	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04
SENSIBLE MBH	0.91	0.93	0.95	0.97	1.00	1.02	1.05	1.07	1.09
POWER kW	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.01

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity

Ergonomics in Design 11

AIRFLOW PERFORMANCE—12.5 TON [44.0 kW] (B151)

External Static Pressure—Inches of Water [kPa]												
Air Flow		CFM [l/s]										
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]	
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	
3800 [1793]	—	—	—	828	1605	854	1661	879	1722	904	1786	
4000 [1888]	—	—	—	—	905	1796	880	1859	905	1927	930	1997
4200 [1982]	—	—	—	835	1735	955	2072	979	2149	1004	2230	
4400 [2076]	—	—	—	832	1877	858	1941	883	2008	908	2079	
4600 [2171]	867	2263	891	2337	916	2415	940	2496	964	2561	988	2639
4800 [2265]	897	2518	922	2599	946	2684	970	2772	983	2864	1017	2959
5000 [2359]	929	2795	953	2883	976	2975	1000	3070	1023	3168	1046	3270
5200 [2454]	961	3093	984	3188	1007	3286	1030	3388	1053	3494	1076	3603
5400 [2548]	983	3412	1016	3514	1039	3619	1062	3728	1084	3841	1106	3956
5600 [2643]	1026	3752	1049	3861	1071	3974	1093	4089	1115	4209	1137	4331
5800 [2737]	1060	4114	1082	4230	1104	4349	1126	4472	1147	4598	1169	4728

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	BK72H	BK85H	
Motor Sheave	1VP-44	1VP-65	
Turns Open	1	2	3
RPM	1051	1009	966
	1051	1009	920
		876	824
		1294	1256
			1216
			1177
			1136
			1094

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

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

3. Re-adjustment of sheave required to achieve rated airflow at ARI 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.

**AIRFLOW CORRECTION FACTORS
12.5 TON [44.0 kW] (B151)**

ACTUAL—CFM [l/s]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2076]	4600 [2171]	4800 [2265]	5000 [2359]	5200 [2454]	5400 [2548]	5600 [2643]	5800 [2737]
TOTAL MBH	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	
SENSIBLE MBH	0.93	0.96	1.00	1.04	1.07	1.11	1.14	1.18	1.21	1.25	
POWER kW	0.99	1.00	1.00	1.00	1.01	1.01	1.02	1.03	1.03	1.03	

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

**COMPONENT AIR RESISTANCE,
IWC 12.5 TON [44.0 kW] (B151)**

Component	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2076]	4600 [2171]	4800 [2265]	5000 [2359]	5200 [2454]	5400 [2548]	5600 [2643]	5800 [2737]
Wet Coil	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.13	0.14
Downflow Economizer	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
RA Damper Open	[.03]	[.03]	[.03]	[.04]	[.04]	[.04]	[.04]	[.04]	[.05]	[.05]	[.05]
Horizontal Economizer	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.13
RA Damper Open	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]
Concentric Grill RXRN-AA61 or RXRN-AA71 & Transition RXMC-CE05	0.19	0.21	0.24	0.27	0.30	0.33	0.40	0.44	0.48	0.52	
Concentric Grill RXRN-AA66 or RXRN-AA76 & Transition RXMC-CF06	0.23	0.25	0.27	0.29	0.30	0.32	0.34	0.36	0.40	0.43	

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

ELECTRICAL DATA – RLKL							
	B090CL	B090CM	B090CN	B090DL	B090DM	B090DN	B090YL
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Minimum Circuit Ampacity	40/40	40/40	45/45	20	20	23
	Minimum Overcurrent Protection Device Size	50/50	50/50	60/60	25	25	30
	Maximum Overcurrent Protection Device Size	60/60	60/60	60/60	30	30	20
Compressor Motor	No.	1	1	1	1	1	1
	Volts	200/240	200/240	200/240	480	480	480
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	6	6	6	6	6	6
	Amps (RLA), Comp. 1	23.2/23.2	23.2/23.2	23.2/23.2	11.2	11.2	11.2
	Amps (LRA), Comp. 1	164/164	164/164	164/164	75	75	75
	HP, Compressor 2	—	—	—	—	—	—
	Amps (RLA), Comp. 2	—	—	—	—	—	—
	Amps (LRA), Comp. 2	—	—	—	—	—	—
Condenser Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.3/2.3	2.3/2.3	2.3/2.3	1.5	1.5	1.5
	Amps (LRA, each)	5.6/5.6	5.6/5.6	5.6/5.6	3.1	3.1	2.2
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	2	3	2	3	2
	Amps (FLA, each)	8/8	8/8	13/13	4	4	7
	Amps (LRA, each)	56/56	56/56	74.5/74.5	28	28	38.1

ELECTRICAL DATA – RLKL

	B090YM	B090YN	B120CL	B120CM	B120DL	B120DM	B120YL
Unit Information	Unit Operating Voltage Range	518-632	518-632	187-253	187-253	414-506	414-506
	Volts	575	575	208/230	208/230	460	460
	Minimum Circuit Ampacity	15	19	51/51	56/56	28	31
	Minimum Overcurrent Protection Device Size	20	25	60/60	70/70	35	35
	Maximum Overcurrent Protection Device Size	20	25	80/80	80/80	40	45
Compressor Motor	No.	1	1	1	1	1	1
	Volts	600	600	200/240	200/240	480	480
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	6	6	10	10	10	10
	Amps (RLA), Comp. 1	7.9	7.9	30.1/30.1	30.1/30.1	16.7	16.7
	Amps (LRA), Comp. 1	54	54	225/225	225/225	114	114
	HP, Compressor 2	—	—	—	—	—	—
	Amps (RLA), Comp 2	—	—	—	—	—	—
	Amps (LLA), Comp 2	—	—	—	—	—	—
Condenser Motor	No.	1	1	2	2	2	2
	Volts	575	575	208/230	208/230	460	460
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1	1	2.4/2.4	2.4/2.4	1.4	1.4
	Amps (LRA, each)	2.2	2.2	4.7/4.7	4.7/4.7	2.4	2.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	575	575	208/230	208/230	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	3	2
	Amps (FLA, each)	4	8	8/8	13/13	4	7
	Amps (LRA, each)	19	20	56/56	74.5/74.5	28	38.1

ELECTRICAL DATA – RLKL							
	B120YM	B151CL	B151CM	B151DL	B151DM	B151YL	B151YM
Unit Information	Unit Operating Voltage Range	518-632	187-253	187-253	414-506	414-506	518-632
	Volts	575	208/230	208/230	460	460	575
	Minimum Circuit Ampacity	26	67/67	71/71	33	36	28
	Minimum Overcurrent Protection Device Size	30	70/70	75/75	35	40	30
	Maximum Overcurrent Protection Device Size	35	80/80	90/90	40	45	35
Compressor Motor	No.	1	2	2	2	2	2
	Volts	600	208/230	208/230	460	460	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
	Amps (RLA), Comp. 1	12.2	22.4/22.4	22.4/22.4	10.6	10.6	7.7
	Amps (LRA), Comp. 1	80	149/149	149/149	75	75	54
	HP, Compressor 2	—	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
	Amps (RLA), Comp 2	—	19/19	19/19	9.7	9.7	7.4
	Amps (LLA), Comp 2	—	123/123	123/123	62	62	50
Condenser Motor	No.	2	2	2	2	2	2
	Volts	575	208/230	208/230	460	460	575
	Phase	1	1	1	1	1	1
	HP	1/3	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	1	2.3/2.3	2.3/2.3	1.5	1.5	1
	Amps (LRA, each)	1.5	5.6/5.6	5.6/5.6	3.1	3.1	2.2
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	575	208/230	208/230	460	460	575
	Phase	3	3	3	3	3	3
	HP	3	3	5	3	3	5
	Amps (FLA, each)	8	15/15	18.8/18.8	7	10	8
	Amps (LRA, each)	20	74.5/74.5	82.6/82.6	38.1	41.3	20

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

Single Power Supply For Both Unit and Heater Kit

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

208/240 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					
Unit Model No. RLKL-	RXJX-Heater Kit Nominal kW	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner				
		No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Unit Max. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min. Ckt. Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Circuit Ampacity 208/240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min./Max. @ 240 V		
C151CM	No Heat	—	—	—	—	71/71	75/90	—	—	—	71/71	75/90	75/90	—	—
	CC110C	1	7.2/9.6	24.56/32.75	20/23.1	71/71	80/90	25/29	25/30	—	—	—	—	—	—
	CC115C	1	10.8/14.4	36.84/49.13	30/34.6	71/71	80/90	38/44	40/45	—	—	—	—	—	—
	CC220C	1	14.4/19.2	49.13/65.5	40/46.2	74/82	80/90	50/58	50/60	—	—	—	—	—	—
	CC330C	1	21.6/28.8	73.69/98.25	60/69.3	99/111	100/100	125/125	75/87	80/90	—	—	—	—	—
	CC440C	1	28.8/38.4	98.25/131	80.1/92.4	124/140	125/125	150/150	101/116	110/125	—	—	—	—	—
	CC550C	1	36.1/48	123.16/163.75	100.1/115.5	149/168	150/150	175/175	126/145	150/150	—	—	—	—	—
B090CN	No Heat	—	—	—	—	45/45	60/60	—	—	—	45/45	60/60	60/60	—	—
	CC110C	1	7.2/9.6	24.56/32.75	20/23.1	45/46	60/60	25/29	25/30	—	—	—	—	—	—
	CC115C	1	10.8/14.4	36.84/49.13	30/34.6	54/60	60/60	38/44	40/45	—	—	—	—	—	—
	CC220C	1	14.4/19.2	49.13/65.5	40/46.2	67/75	70/70	80/80	50/58	50/60	—	—	—	—	—
	CC330C	1	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	80/90	—	—	—	—	—
	CC331C	1	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	80/90	—	—	—	—	—
	CC440C	1	28.8/38.4	98.25/131	80.1/92.4	117/132	125/125	150/150	101/116	110/125	—	—	—	—	—
* = For Canadian use only. Uses "P" fuses for inductive circuit.															
+ = 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					
Unit Model No. RLKL-	RXJ-J Heater Kit Nominal kW	Heater Kit			Air Conditioner			Heater Kit			Air Conditioner				
		No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size Min./Max. @ 480 V	Min. Ckt. Ampacity @ 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max. @ 480 V	Min./Max. @ 480 V	Over Current Protective Device Size Min./Max. @ 480 V		
B090DL	No Heat	—	9.6	32.75	11.5	20	25/30	—	—	15	15	—	—	25/30	—
	CC10D	1	14.4	49.13	17.3	27	30/30	—	22	25	—	—	—	—	—
	CC15D	1	19.2	65.5	23.1	34	35/35	—	29	30	—	—	—	—	—
	CC20D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—	—	—
	CC30D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—	—	—
	CC31D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—	—	—
	CC40D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—	—	—
	CC41D	1	—	—	—	—	—	—	—	—	—	—	—	—	—
B120DL	No Heat	—	9.6	32.75	11.5	28	35/40	—	—	15	15	—	—	28	35/40
	CC10D	1	14.4	49.13	17.3	28	35/40	—	22	25	—	—	—	—	—
	CC15D	1	19.2	65.5	23.1	34	35/40	—	29	30	—	—	—	—	—
	CC20D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—	—	—
	CC30D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—	—	—
	CC40D	1	48	163.75	57.7	78	80/80	—	73	80	—	—	—	—	—
	CC50D	1	—	—	—	—	—	—	—	—	—	—	—	—	—
	No Heat	—	9.6	32.75	11.5	33	35/40	—	—	15	15	—	—	33	35/40
B151DL	CC10D	1	14.4	49.13	17.3	33	40/40	—	—	15	15	—	—	—	—
	CC15D	1	19.2	65.5	23.1	38	40/40	—	22	25	—	—	—	—	—
	CC20D	1	28.8	98.25	34.6	52	60/60	—	29	30	—	—	—	—	—
	CC30D	1	38.4	131	46.2	67	70/70	—	44	45	—	—	—	—	—
	CC40D	1	48	163.75	57.7	81	90/90	—	58	60	—	—	—	—	—
	CC50D	1	—	—	—	—	—	—	73	80	—	—	—	—	—
	No Heat	—	9.6	32.75	11.5	20	25/30	—	—	15	15	—	—	20	25/30
	CC10D	1	14.4	49.13	17.3	27	30/30	—	22	25	—	—	—	—	—
B090DM	CC15D	1	19.2	65.5	23.1	34	35/35	—	29	30	—	—	—	—	—
	CC20D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—	—	—
	CC30D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—	—	—
	CC31D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—	—	—
	CC40D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—	—	—
	CC41D	1	48	163.75	57.7	81	90/90	—	—	—	—	—	—	—	—
	No Heat	—	9.6	32.75	11.5	31	35/45	—	—	15	15	—	—	31	35/45
	CC10D	1	14.4	49.13	17.3	31	35/45	—	22	25	—	—	—	—	—
B120DM	CC15D	1	19.2	65.5	23.1	38	40/45	—	29	30	—	—	—	—	—
	CC20D	1	28.8	98.25	34.6	52	60/60	—	44	45	—	—	—	—	—
	CC30D	1	38.4	131	46.2	67	70/70	—	58	60	—	—	—	—	—
	CC40D	1	48	163.75	57.7	81	90/90	—	—	—	—	—	—	—	—

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

+ = 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								
Unit Model No.	RXJ-J Heater Kit Nominal kW	No. of Sequence Steps	Heater Kit			Unit Min. Ckt. Ampacity @ 480 V	Air Conditioner			Min. Ckt. Ampacity 480 V	Max. Fuse Size 480 V	Min. Circuit Ampacity 480 V	Over Current Protective Device Size Min./Max. @ 480 V	Over Current Protective Device Size Min./Max. @ 480 V	Air Conditioner
			Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V		Unit Min. Ckt. Ampacity @ 480 V	Protective Device Size Min./Max. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V						
B151DM	No Heat	—	—	—	—	36	40/45	—	—	15	15	36	40/45	—	—
	CC10D	1	9.6	32.75	11.5	36	40/45	—	—	22	25	—	—	—	—
	CC15D	1	14.4	49.13	17.3	36	40/45	—	—	29	30	—	—	—	—
	CC20D	1	19.2	65.5	23.1	42	45/45	—	—	44	45	—	—	—	—
	CC30D	1	28.8	98.25	34.6	56	60/60	—	—	58	60	—	—	—	—
	CC40D	1	38.4	131	46.2	71	80/80	—	—	73	80	—	—	—	—
	CC50D	1	48	163.75	57.7	85	90/90	—	—	—	—	—	—	—	—
	No Heat	—	—	—	—	23	30/30	—	—	—	—	23	30/30	—	—
	CC10D	1	9.6	32.75	11.5	24	30/30	—	—	15	15	—	—	—	—
	CC15D	1	14.4	49.13	17.3	31	35/35	—	—	22	25	—	—	—	—
B090DN	CC20D	1	19.2	65.5	23.1	38	40/40	—	—	29	30	—	—	—	—
	CC30D	1	28.8	98.25	34.6	52	60/60	—	—	44	45	—	—	—	—
	CC31D	1	28.8	98.25	34.6	52	60/60	—	—	44	45	—	—	—	—
	CC40D	1	38.4	131	46.2	67	70/70	—	—	58	60	—	—	—	—
	CC41D	1	38.4	131	46.2	67	70/70	—	—	58	60	—	—	—	—

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

+ = Field installed only.

600 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION										
Unit Model No. RLKL-	Single Power Supply For Both Unit and Heater Kit					Separate Power Supply For Both Unit and Heater Kit				
	RXJU-Heater Kit Nominal kW	No. of Sequence Steps	Heater Kit		Unit Min. Ckt. Ampacity @ 600 V	Air Conditioner		Min. Ckt. Ampacity 600 V	Max. Fuse Size 600 V	Over Current Protective Device Size Min./Max. @ 600 V
			Rated Heater kW @ 600 V	Heater KBTU/Hr @ 600 V		Min./Max. @ 600 V	Protective Device Size Min./Max. @ 600 V			
B090YL	No Heat	—	—	—	—	15	20/20	—	—	20/20
	CC10Y	1	9.6	32.75	9.2	17	20/20	—	12	—
	CC15Y	1	14.4	49.13	13.9	23	25/25	—	18	—
	CC20Y	1	19.2	65.5	18.5	29	30/30	—	24	—
	CC30Y	1	28.8	98.25	27.7	40	40/40	35	35	—
	CC40Y	1	38.4	131	37	52	60/60	47	50	—
	No Heat	—	—	—	—	22	25/30	—	—	22
B120YL	CC10Y	1	9.6	32.75	9.2	22	25/30	—	12	15
	CC15Y	1	14.4	49.13	13.9	23	25/30	—	18	20
	CC20Y	1	19.2	65.5	18.5	29	30/30	—	24	25
	CC30Y	1	28.8	98.25	27.7	40	40/40	35	35	—
	CC40Y	1	38.4	131	37	52	60/60	47	50	—
	CC50Y	1	48	163.75	46.2	63	70/70	58	60	—
	No Heat	—	—	—	—	28	30/35	—	—	28
B151YL	CC10Y	1	9.6	32.75	9.2	28	30/35	—	12	15
	CC15Y	1	14.4	49.13	13.9	28	30/35	—	18	20
	CC20Y	1	19.2	65.5	18.5	34	35/35	—	24	25
	CC30Y	1	28.8	98.25	27.7	45	45/45	35	35	—
	CC40Y	1	38.4	131	37	57	60/60	47	50	—
	CC50Y	1	48	163.75	46.2	68	70/70	58	60	—
	No Heat	—	—	—	—	15	20/20	—	—	15
B090YMM	CC10Y	1	9.6	32.75	9.2	17	20/20	—	12	15
	CC15Y	1	14.4	49.13	13.9	23	25/25	—	18	20
	CC20Y	1	19.2	65.5	18.5	29	30/30	—	24	25
	CC30Y	1	28.8	98.25	27.7	40	40/40	35	35	—
	CC40Y	1	38.4	131	37	52	60/60	47	50	—
	CC50Y	1	48	163.75	46.2	68	70/70	58	60	—
	No Heat	—	—	—	—	26	30/35	—	—	26
B120YMM	CC10Y	1	9.6	32.75	9.2	26	30/35	—	12	15
	CC15Y	1	14.4	49.13	13.9	28	30/35	—	18	20
	CC20Y	1	19.2	65.5	18.5	34	35/35	—	24	25
	CC30Y	1	28.8	98.25	27.7	45	45/45	35	35	—
	CC40Y	1	38.4	131	37	57	60/60	47	50	—
	CC50Y	1	48	163.75	46.2	68	70/70	58	60	—
	No Heat	—	—	—	—	26	30/35	—	—	26

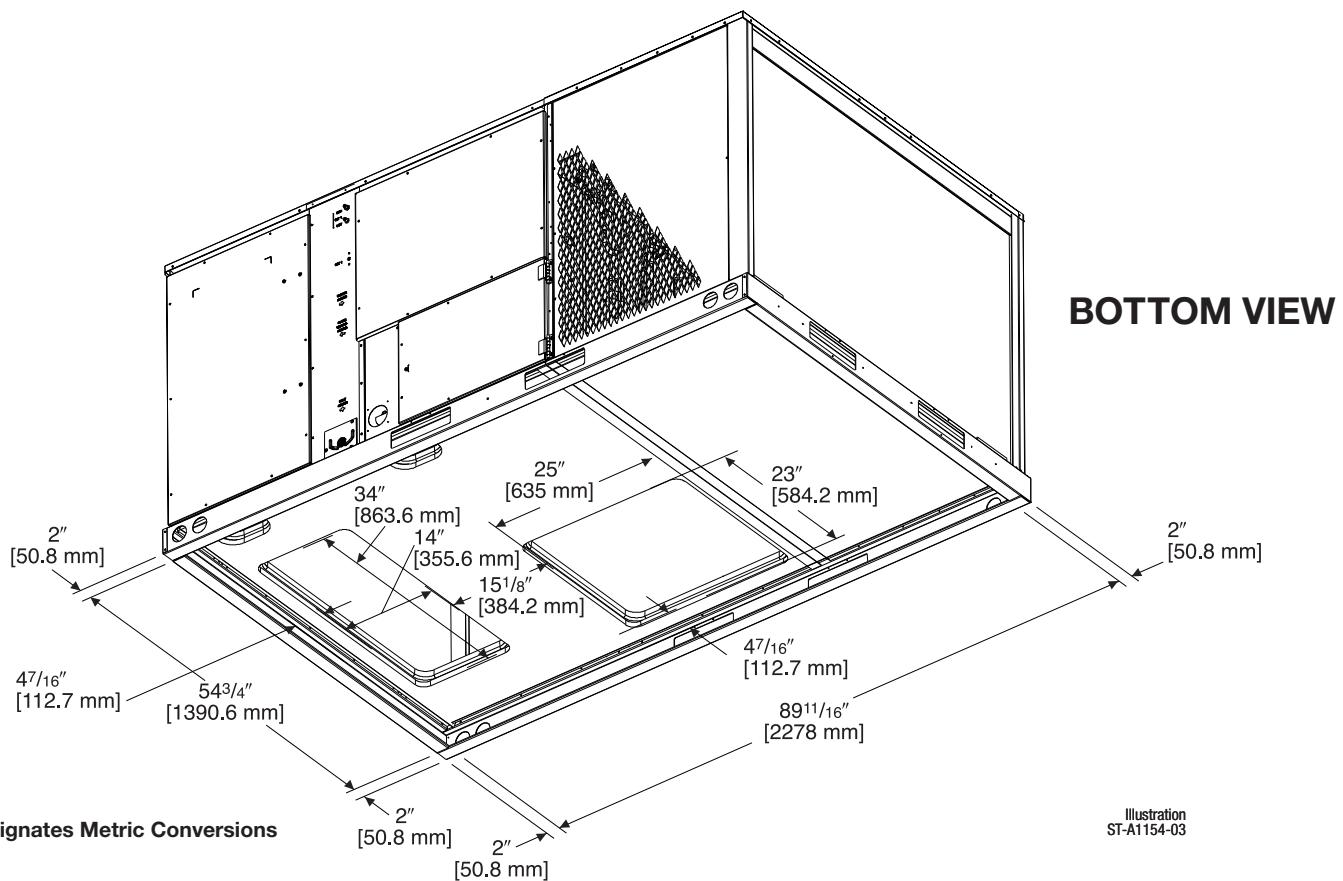
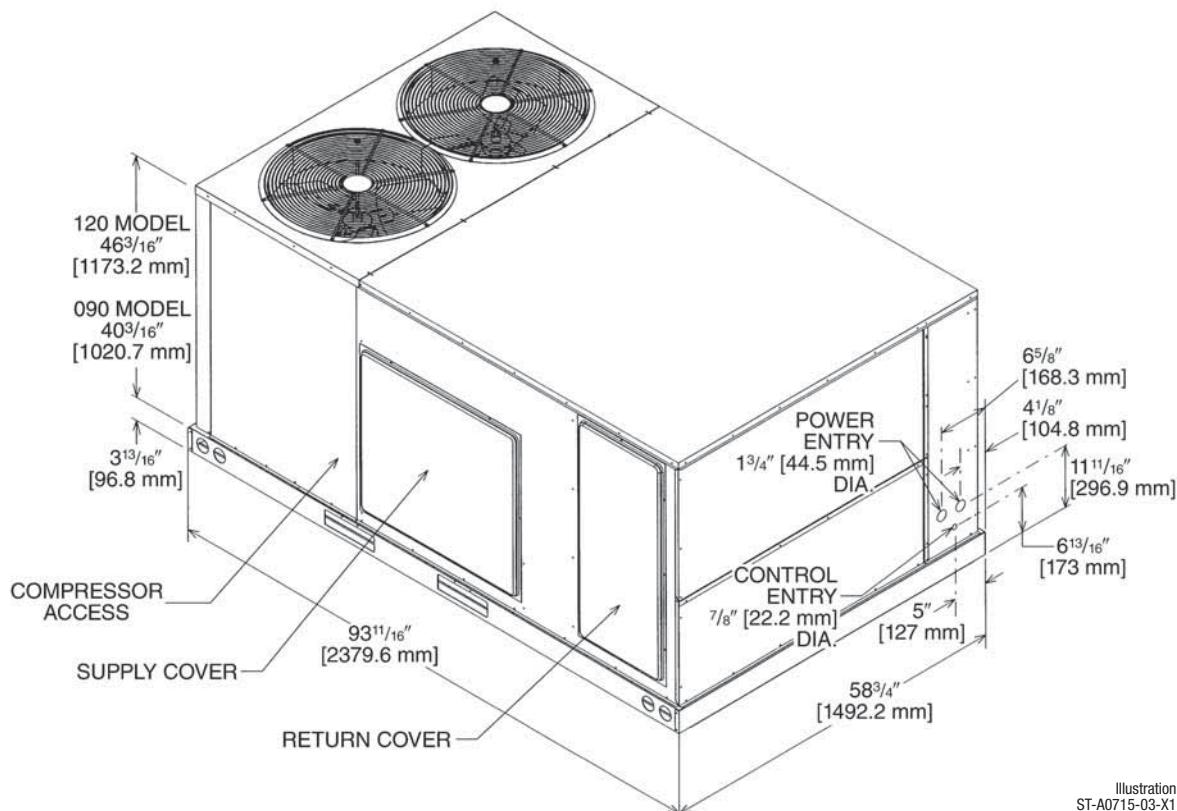
*= For Canadian use only. Uses "P" fuses for inductive circuit.
+= Field installed only.

600 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							
Unit Model No.	RXJU-Heater Kit Nominal kW	No. of Sequence Steps	Heater Kit			Unit Min. Ckt. Ampacity @ 600 V	Air Conditioner			Min. Ckt. Ampacity 600 V	Max. Fuse Size 600 V	Min. Circuit Ampacity 600 V	Over Current Protective Device Size Min./Max. @ 600 V	Over Current Protective Device Size Min./Max. @ 600 V
			Rated Heater kW @ 600 V	Heater KBTU/Hr @ 600 V	Heater Amp. @ 600 V		Unit Min. Ckt. Ampacity @ 600 V	Protective Device Size Min./Max. @ 600 V	Unit Min. Ckt. Ampacity @ 600 V					
B151YM	No Heat	—	—	—	—	28	30/35	—	—	12	15	28	30/35	—
	CC10Y	1	9.6	32.75	9.2	28	30/35	—	—	18	20	—	—	—
	CC15Y	1	14.4	49.13	13.9	28	30/35	—	—	24	25	—	—	—
	CC20Y	1	19.2	65.5	18.5	34	35/35	—	—	35	35	—	—	—
	CC30Y	1	28.8	98.25	27.7	45	45/45	—	—	47	50	—	—	—
	CC40Y	1	38.4	131	37	57	60/60	—	—	58	60	—	—	—
	CC50Y	1	48	163.75	46.2	68	70/70	—	—	—	—	—	—	—
	No Heat	—	—	—	—	19	25/25	—	—	—	—	19	25/25	—
	CC10Y	1	9.6	32.75	9.2	22	25/25	—	—	12	15	—	—	—
	CC15Y	1	14.4	49.13	13.9	28	30/30	—	—	18	20	—	—	—
B090YN	CC20Y	1	19.2	65.5	18.5	34	35/35	—	—	24	25	—	—	—
	CC30Y	1	28.8	98.25	27.7	45	45/45	—	—	35	35	—	—	—
	CC40Y	1	38.4	131	37	57	60/60	—	—	47	50	—	—	—

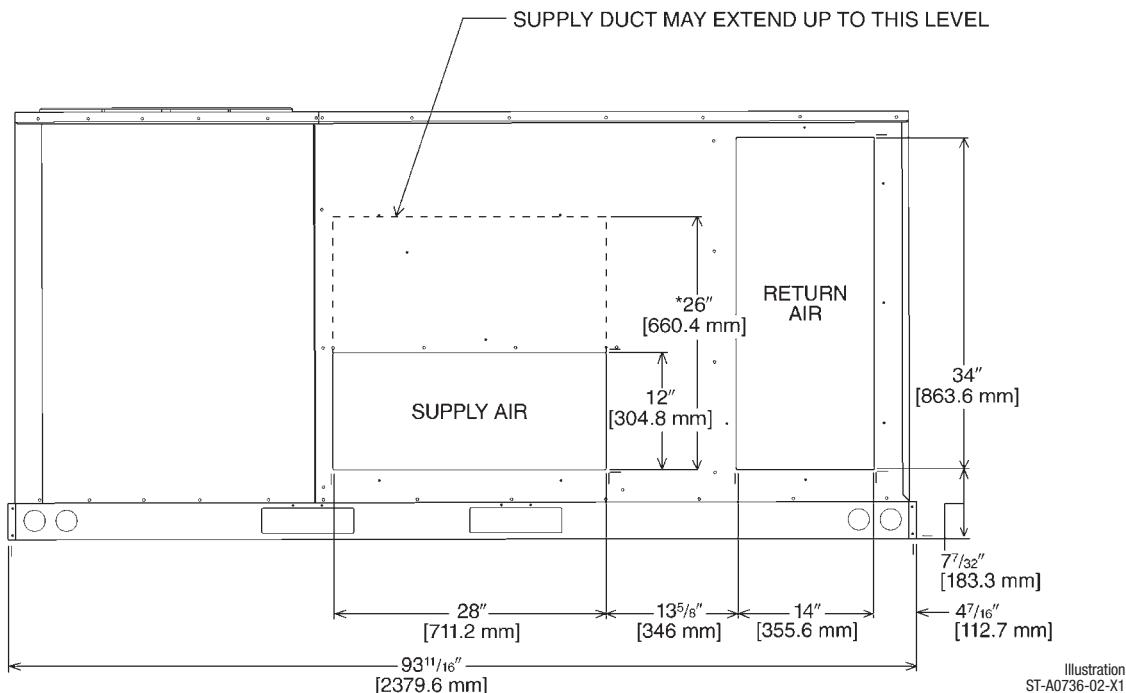
* = For Canadian use only. Uses "P" fuses for inductive circuit.
+ = Field installed only.

PACKAGE AIR CONDITIONER



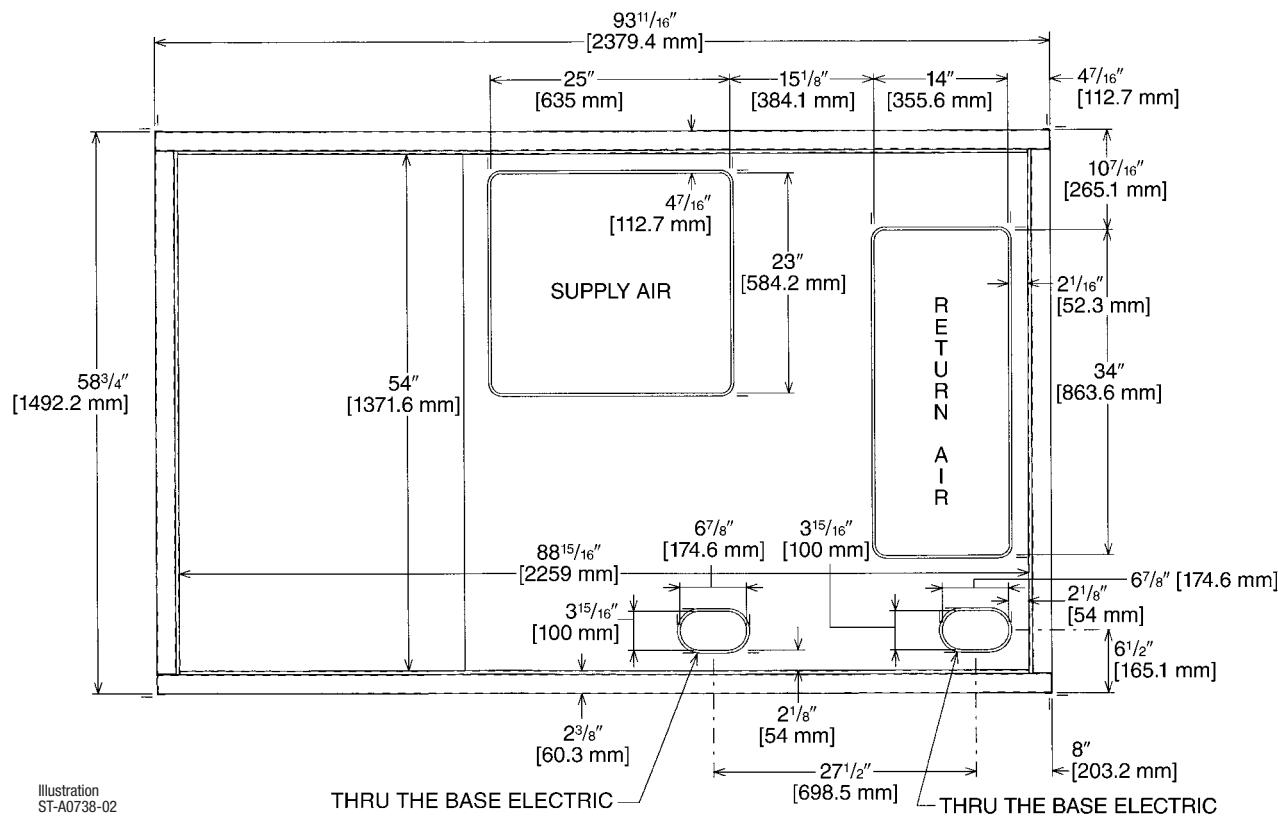
PACKAGE AIR CONDITIONER

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



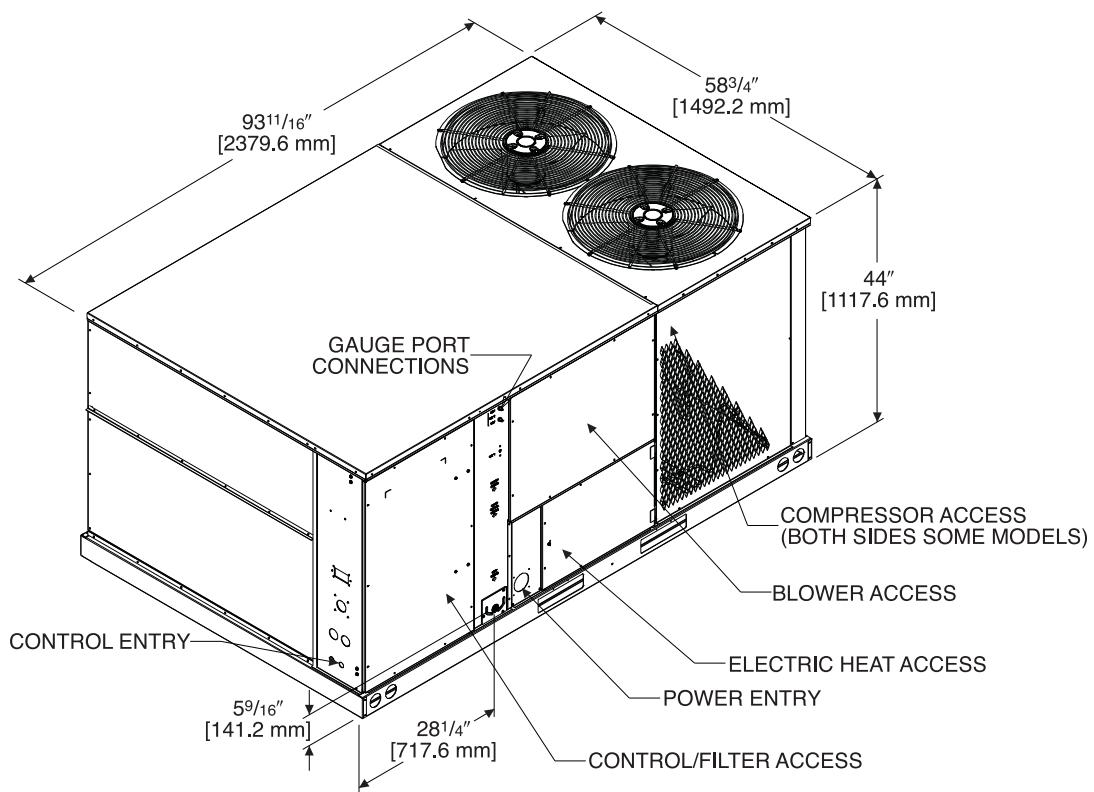
*RECOMMENDED DUCT DIMENSIONS ARE 26"

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



[] Designates Metric Conversions

PACKAGE AIR CONDITIONER



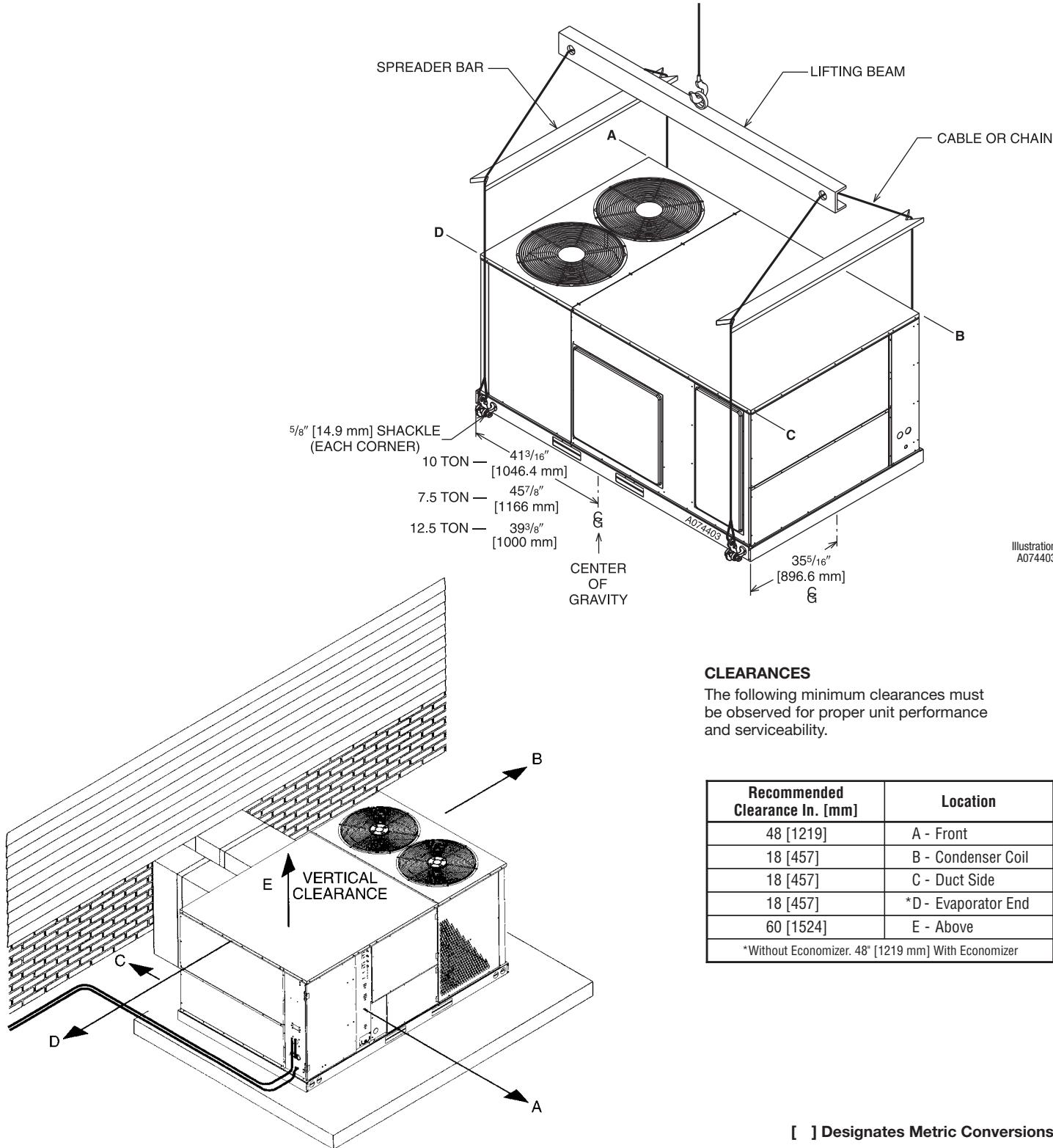
[] Designates Metric Conversions

Illustration
ST-A1154-04

WEIGHTS

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

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5 [26.4]	30%	35%	14%	21%
10 [35.2]	33%	27%	17%	23%
12.5 [44.0]	44%	30%	12%	14%



FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Electric Heaters*—Canadian Use Only.	RXJJ-CC10 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
	RXJJ-CC15 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
	RXJJ-CC20 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
Electric Heaters*—Canadian Use Only.	RXJJ-CC30 (C,D,Y)	47 [21.3]	37 [16.8]	Yes
Electric Heaters*—Canadian Use Only.	RXJJ-CC40 (C,D,Y)	49 [22.2]	39 [17.7]	Yes
Electric Heaters*—Canadian Use Only.	RXJJ-CC50 (C,D,Y)	51 [23.1]	41 [18.6]	Yes
Economizer w/Single Enthalpy	AXRD-PDCM3	90 [40.8]	81 [36.7]	Yes
Economizer w/Single Enthalpy and Smoke Dectector	AXRD-SDCM3	91 [41.3]	82 [37.2]	Yes
Dual Enthalpy Kit	RXRX-AV02	1 [0.5]	1 [0.5]	No
Horizontal Economizer w/Single Enthalpy	AXRD-RDCM3	94 [42.6]	89 [40.4]	No
Carbon Dioxide Sensor	RXRX-AR02	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-BFF02 (C,D,Y)	43 [19.5]	38 [17.2]	No
Manual Fresh Air (Left Panel Mounted)	AXRF-KDA1	38 [17.2]	31 [14.0]	No
Manual Fresh Air (Return Panel)	AXRF-JDA1	26 [11.8]	21 [9.5]	No
Motorized Fresh Air (Return Panel)	AXRF-JDB1	43 [19.5]	21 [9.5]	No
Motor Kit for RXRF-KDA1 (Left Panel Mounted)	RXRX-AW02	35 [15.19]	27 [17.7]	No
Roofcurb, 14"	RXKG-CAE14	90 [40.8]	85 [38.5]	No
Roofcurb, 24"	RXKG-CAE24	140 [63.5]	135 [61.2]	No
Roofcurb Adapters	RXRX-CDCE50	300 [136.1]	290 [131.5]	No
	RXRX-CFCE54	325 [147.4]	315 [142.9]	No
	RXRX-CFCE56	350 [158.8]	340 [154.2]	No
	RXRX-CGCC12	450 [204.1]	410 [186.0]	No
Concentric Diffuser (Step-Down, 18 x 28)	RXRN-AA61	200 [90.7]	185 [83.9]	No
Concentric Diffuser (Step-Down, 18 x 32)	RXRN-AA66	247 [112.0]	227 [103.0]	No
Concentric Diffuser (Flush, 18 x 28)	RXRN-AA71	170 [77.1]	155 [70.3]	No
Concentric Diffuser (Flush, 18 x 32)	RXRN-AA76	176 [79.8]	161 [73.0]	No
Downflow Adapters (Rect. to Round)	RXMC-CD04	15 [6.8]	13 [5.9]	No
Downflow Adapters (Rect. to Rect., 18 x 28)	RXMC-CE05 ①	18 [8.2]	16 [7.3]	No
Downflow Adapters (Rect. to Rect., 18 x 32)	RXMC-CF06 ②	20 [9.1]	18 [8.2]	No
Compressor Time-Delay Relay Kit	RXMD-A04	2 [1.0]	1 [0.5]	No
Low-Ambient Control Kit (1 Per Compressor)	RXRZ-C02	3 [1.4]	2 [1.0]	Yes
Freeze-Stat Kit	RXRX-AM01	1 [0.5]	0.5 [0.2]	Yes
Outdoor Coil Louver Kit	AXRX-AAD02A (7½-12½ Ton)	29 [11.3]	26 [11.8]	Yes
Unwired Convenience Outlet	RXRX-AN01	2 [1.0]	1.5 [0.7]	Yes

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

② Used with RXRN-AA66 and RXRN-AA76 concentric diffusers.

③ Please refer to conversion kit index provided with the unit for LP conversion kit.

[] Designates Metric Conversions

ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

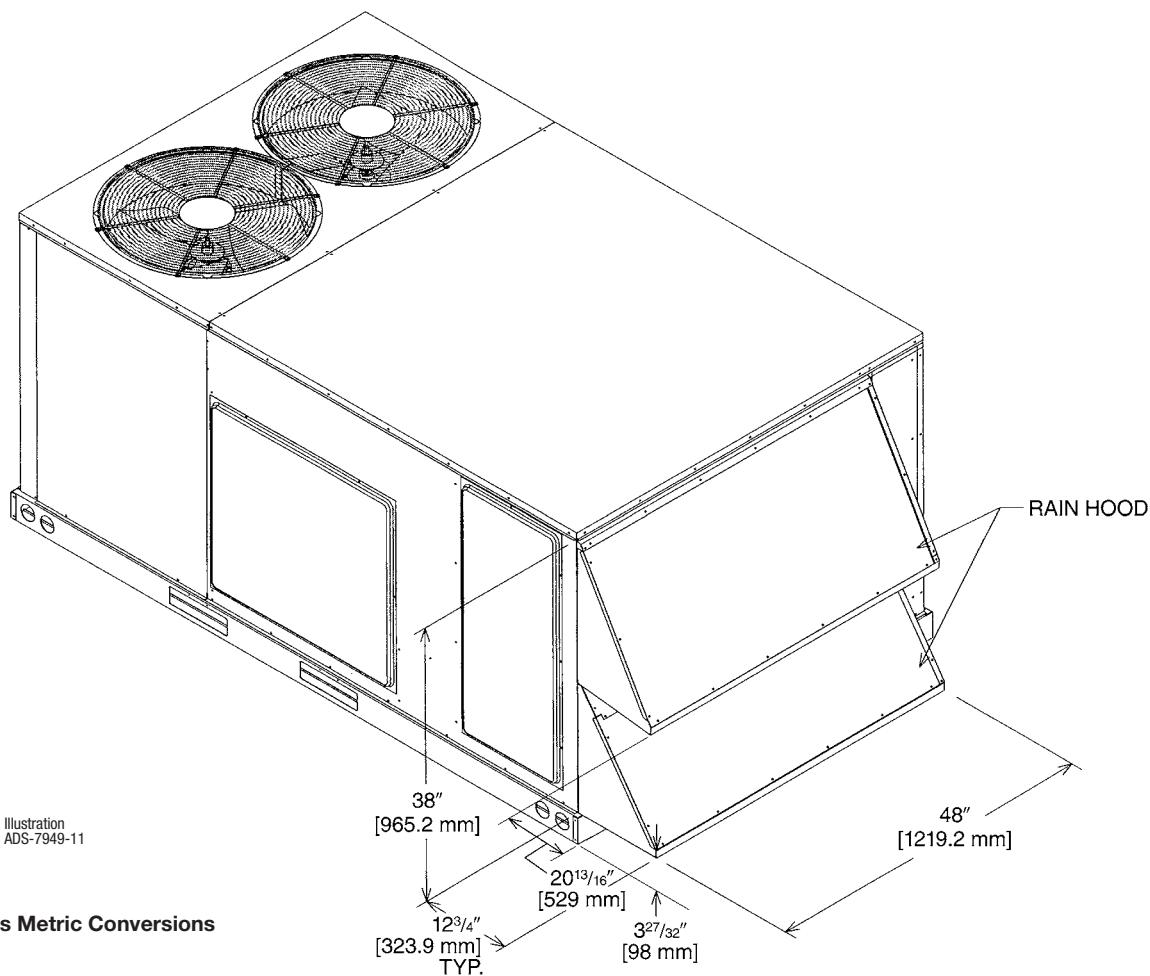
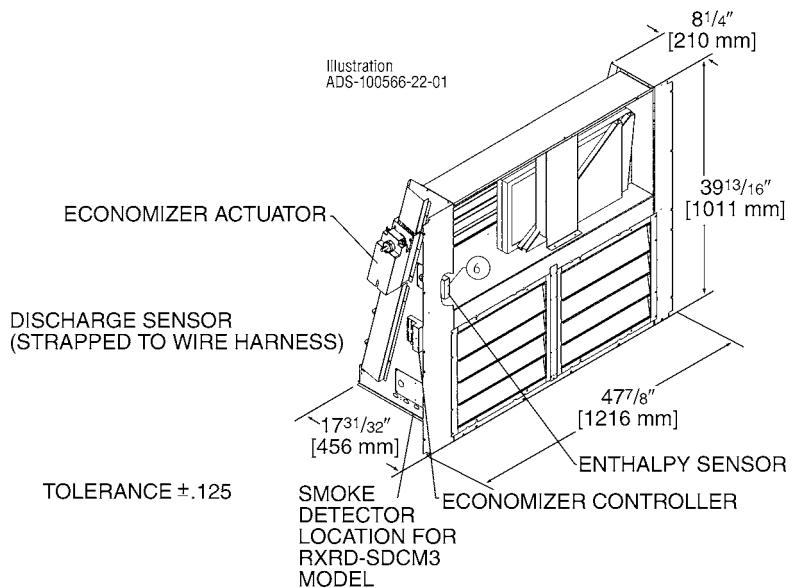
Use to Select Factory Installed Options Only

AXRD-PDCM3—Single Enthalpy (Outdoor) and AXRD-SDCM3 Single Enthalpy with Smoke Detector

RXRX-AV02—Dual Enthalpy Upgrade Kit

RXRX-AR02—Optional Wall-Mounted CO₂ Sensor

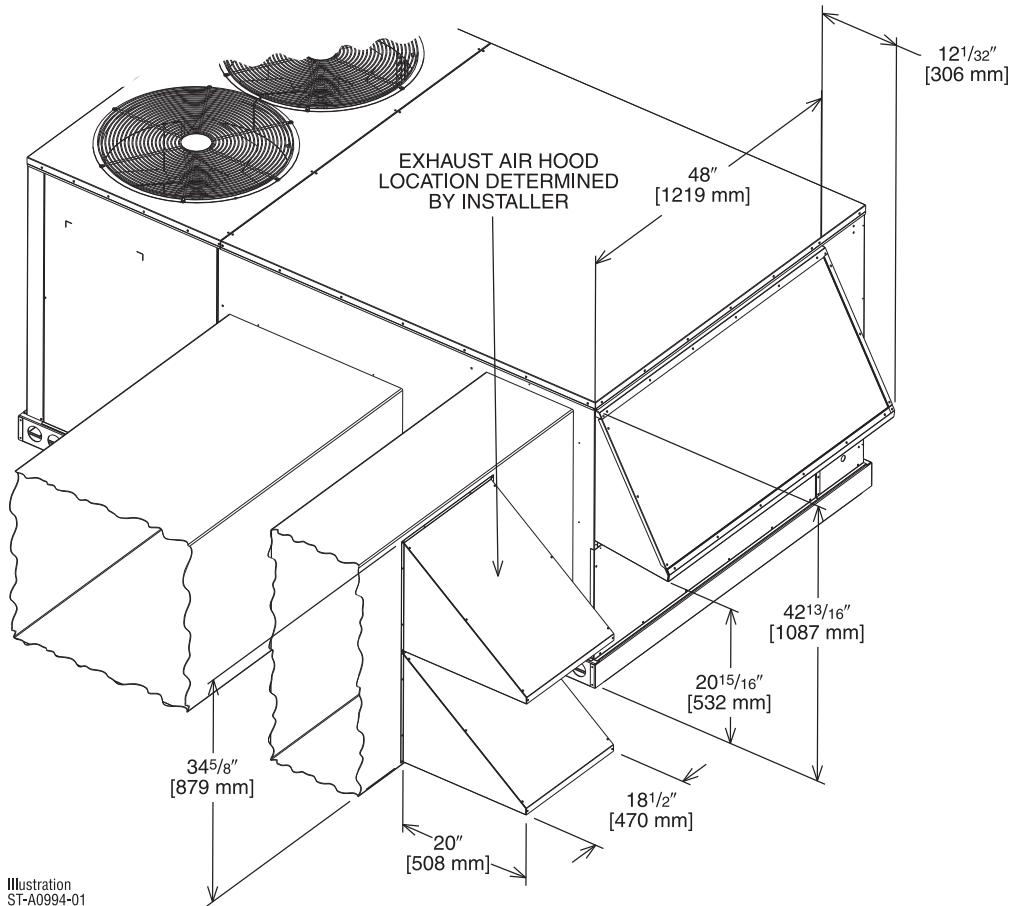
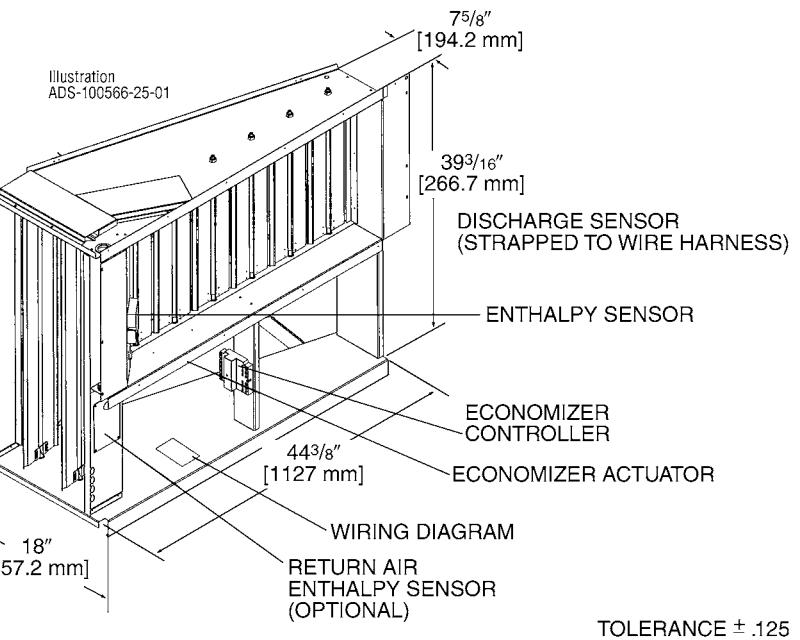
- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (Honeywell #S963B1128) is Available from Prostock.
- Field Installed Power Exhaust Available
- Prewired for Smoke Detector



[] Designates Metric Conversions

ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION**Field Installed Only****AXRD-RDCM3—Single Enthalpy (Outdoor)****RXRX-AV02—Dual Enthalpy Upgrade Kit****RXRX-AR02—Wall-mounted CO₂ Sensor**

- Features **Honeywell** Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Pre-Configured—
No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade
Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships
with Economizer
- Economizer Ships Complete for
Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer
(Honeywell #S963B1128) is Available from Prostock
- Field Installed Power Exhaust Available



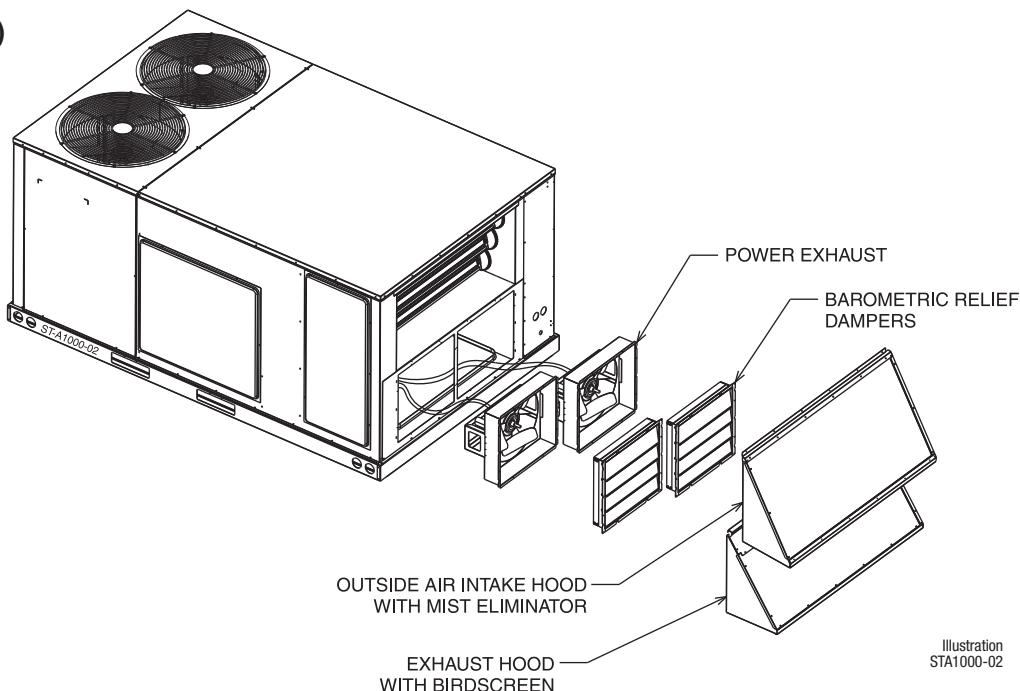
[] Designates Metric Conversions

POWER EXHAUST KIT FOR RXRD-PDCM3(-), RXRD-RDCM3(-), RXRD-SDCM3 ECONOMIZERS

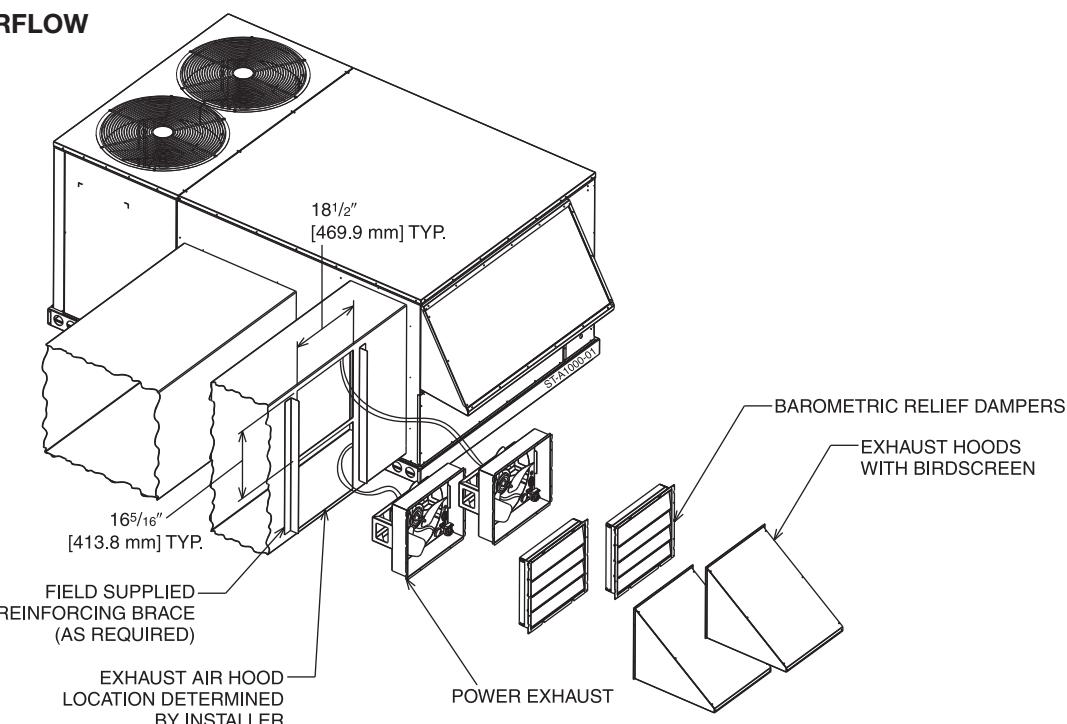
RXRX-BFF02 (C, D, or Y*)

*Voltage Code

VERTICAL AIRFLOW



HORIZONTAL AIRFLOW



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-BFF02C	2	208-230	1	0.33	2200 [1038]	1518	2500 [1179]	1670	1.48	3.6
RXRX-BFF02D	2	460	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.75	1.8
RXRX-BFF02Y	2	575	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.81	1.5

NOTES: 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-AWO2

(Motor Kit for RXRF-KDA1)

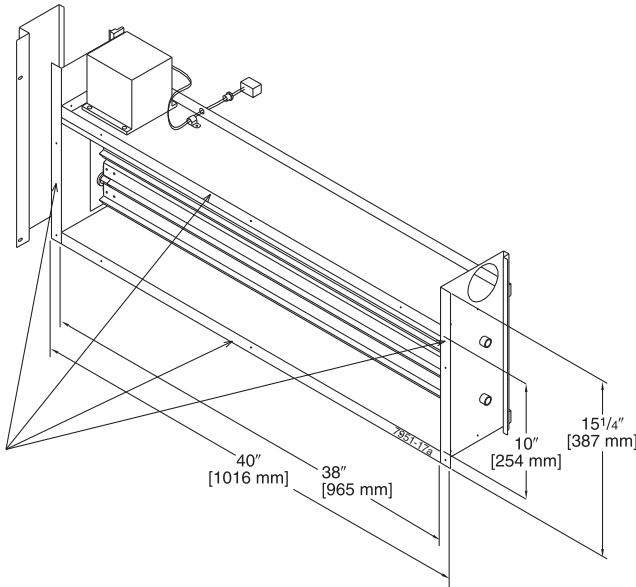


Illustration
ST-7951-17

AXRF-KDA1 (Manual)

**DNWFLOW OR
HORIZONTAL APPLICATION**

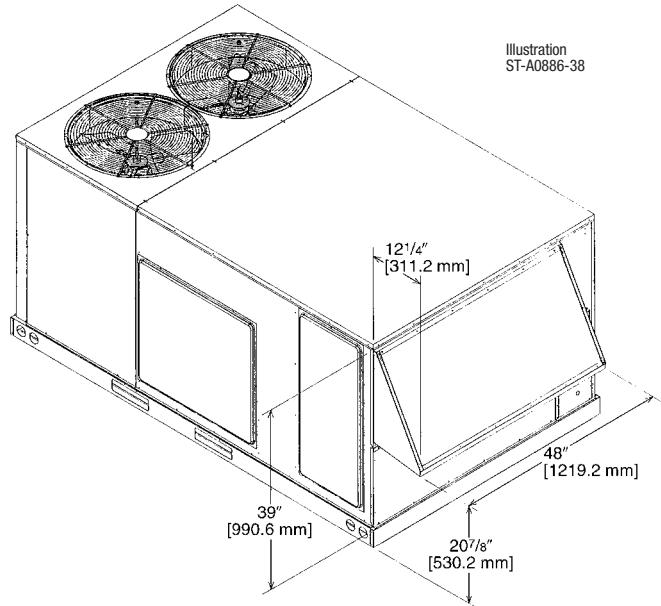


Illustration
ST-A0886-38

[] Designates Metric Conversions

FRESH AIR DAMPER (Cont.)

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

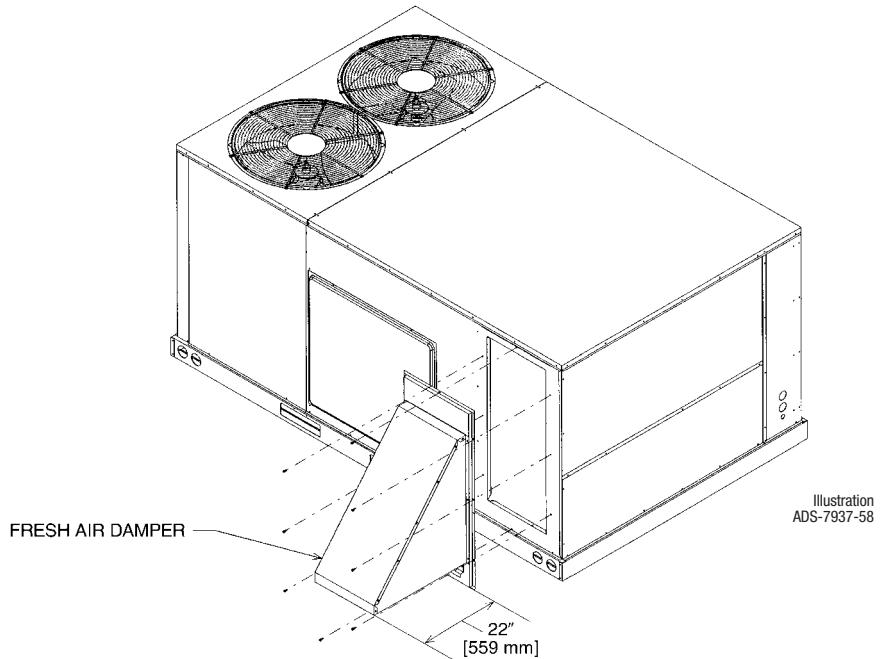
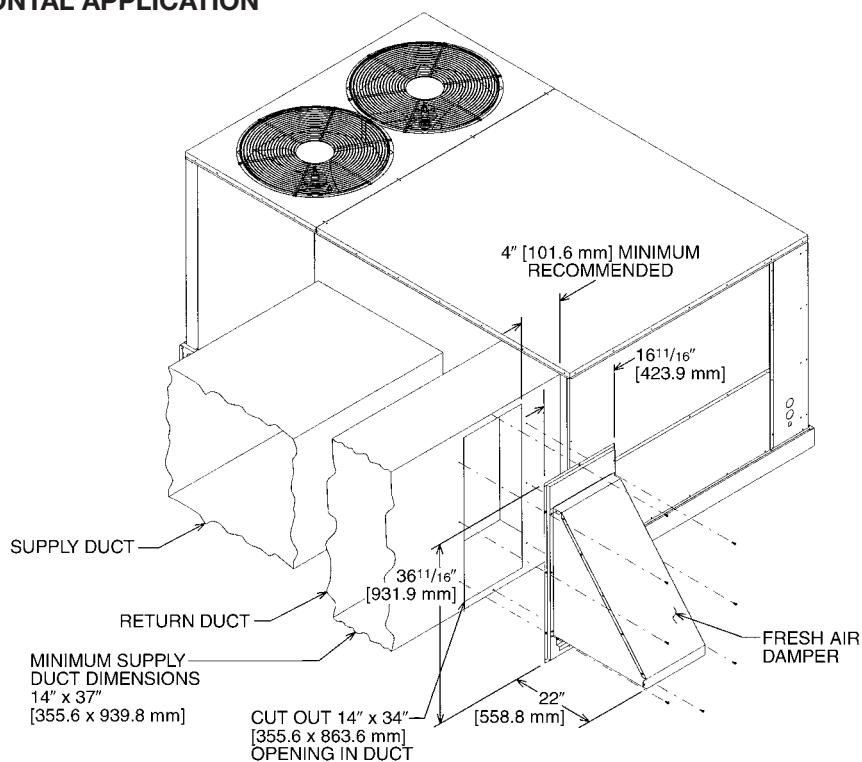
DOWNFLOW APPLICATION**HORIZONTAL APPLICATION**

Illustration
ST-A0901-01



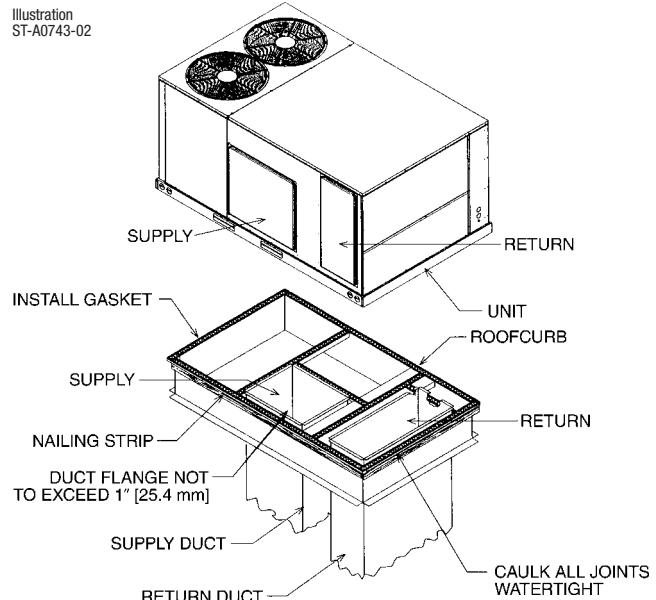
[] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

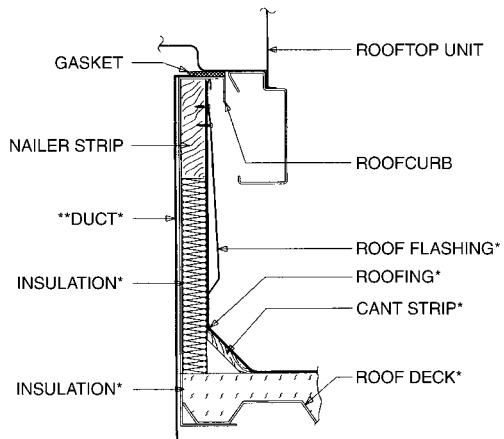
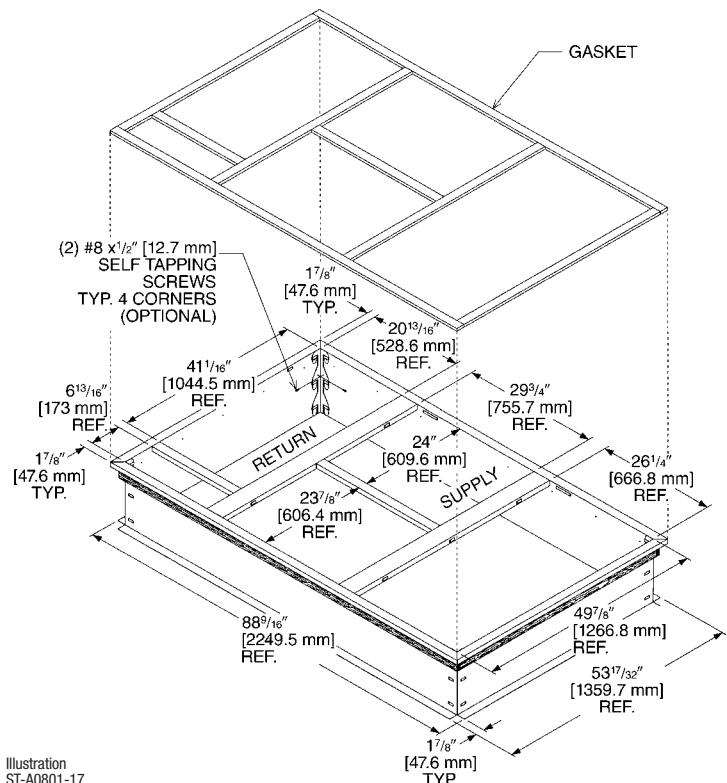
- Sure Comfort's roofcurb design can be utilized on 7.5 & 10 ton [26.4 & 35.2 kW] RLKL-B models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection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

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

TYPICAL INSTALLATION



ROOFCURB INSTALLATION



[] Designates Metric Conversions

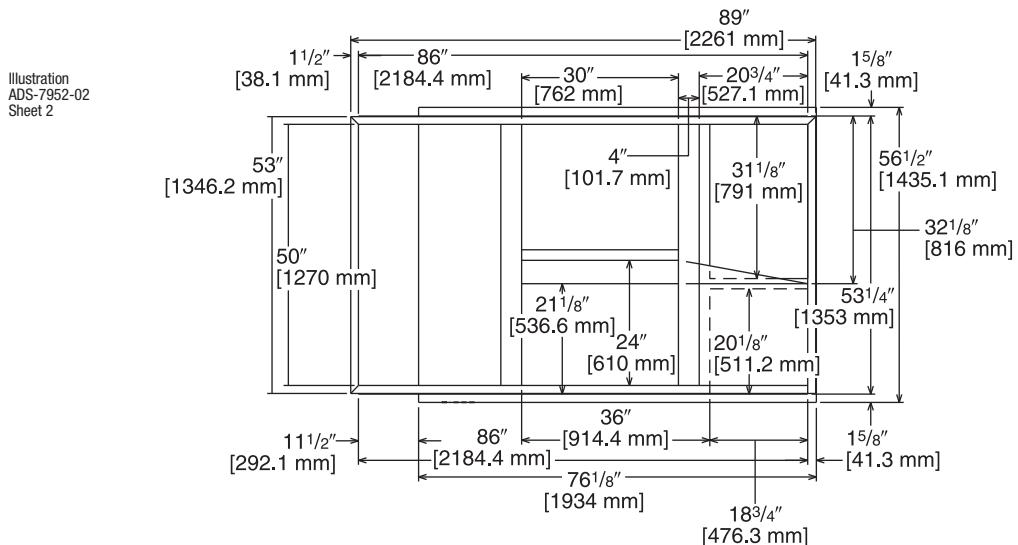
ROOFCURB ADAPTERS

OLD MODELS	OLD ROOFCURB	ROOFCURB ADAPTER	NEW MODELS (All Share Common Cabinet)
(-)RCF, (-)REF-075/076 (-)RGF-150075, (-)RGF-131076 (-)RGF-201076	RXRK-E50	RXRX-CDCE50	
(-)RGF-200075 (-)RGG, (-)REG, (-)RCG-075 (-)RGF, (-)REF, (-)RCF-085 (-)RGF, (-)REF, (-)RCF-100 (-)RGG, (-)REG, (-)RCG-100	RXRK-E54	RXRX-CFCE54	(R)LKL-B090 (R)LKL-B120 (R)LKL-B151
(-)RGF, (-)REF, (-)RCF-125	RXRK-E56	RXRX-CFCE56	
(-)PDC-075 (-)PDC-100/101	RXPK-C12	RXRX-CGCC12	

NOTE: Ductwork modifications may be necessary if the capacity and/or indoor airflow rate of replacement unit is not equivalent to that of the unit being replaced.
RLKL- B090, B120 and B151 on same roofcurb as the RLKB- A090, A120 and A150, RLMB- A090, A120 and A150, RLNB- A090 and A120.

ROOFCURB ADAPTERS (Cont.)

RXRX-CDCE50



TOP VIEW

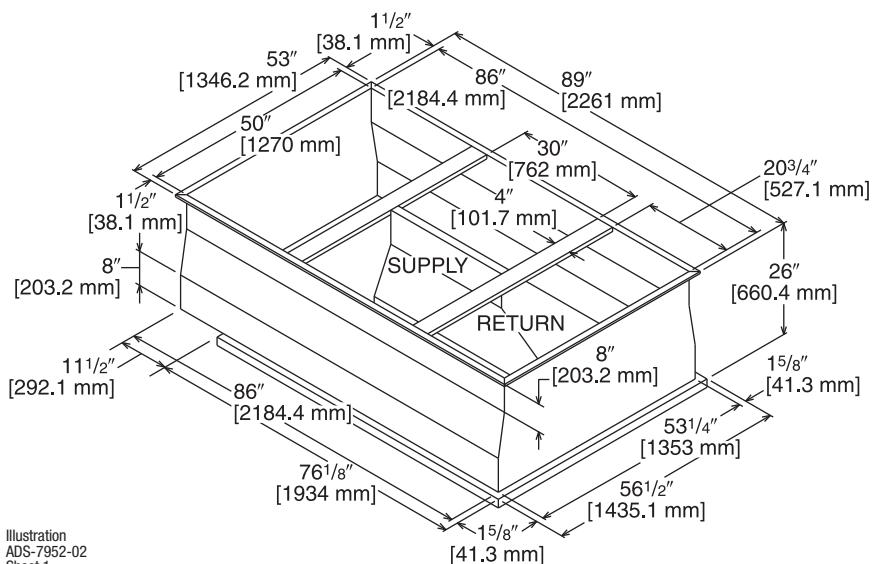
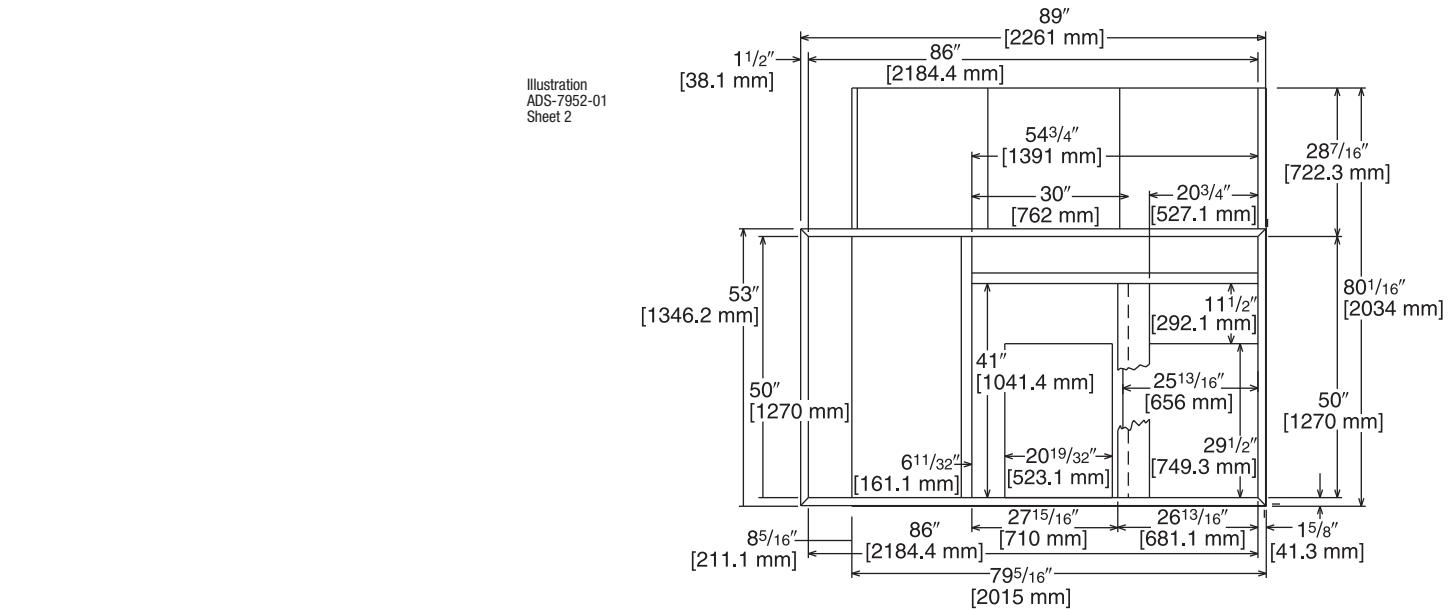


Illustration
ADS-7952-02
Sheet 1

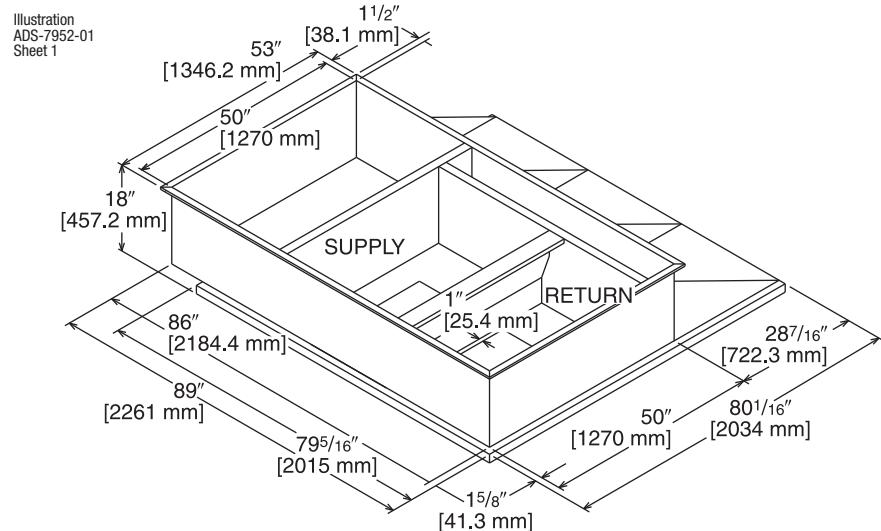
[] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

RXRX-CFCE54



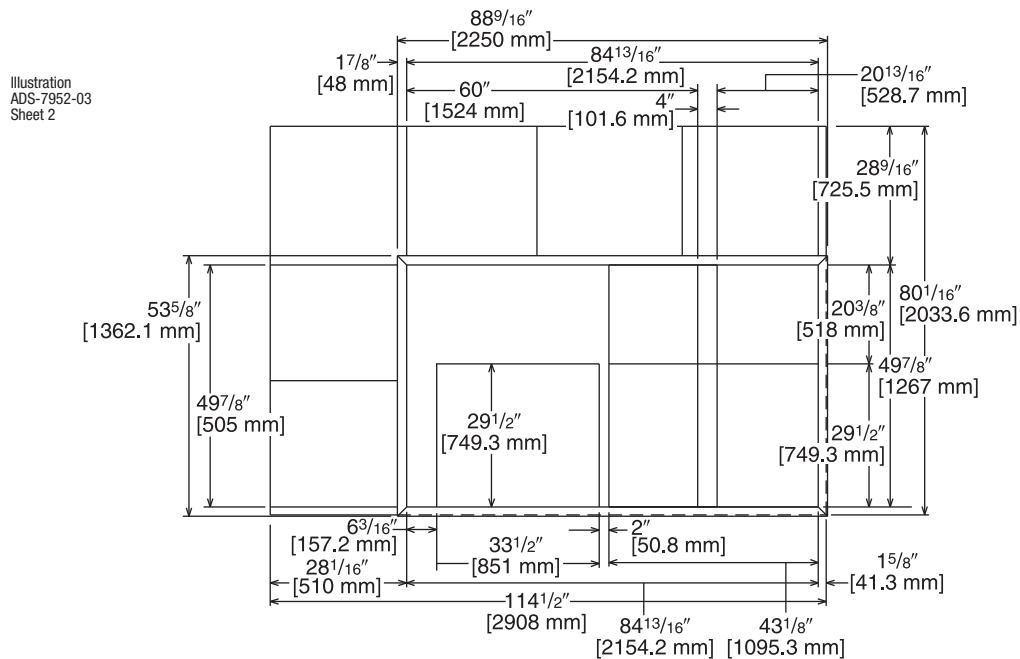
TOP VIEW



[] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

RXRX-CFCE56



TOP VIEW

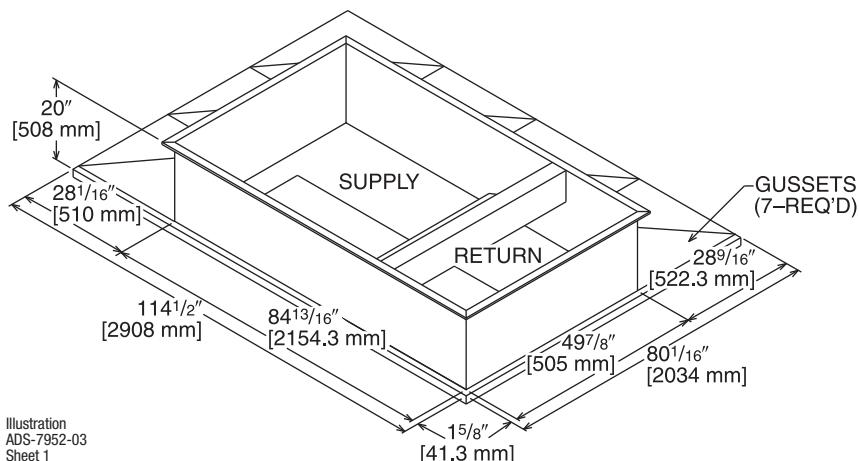
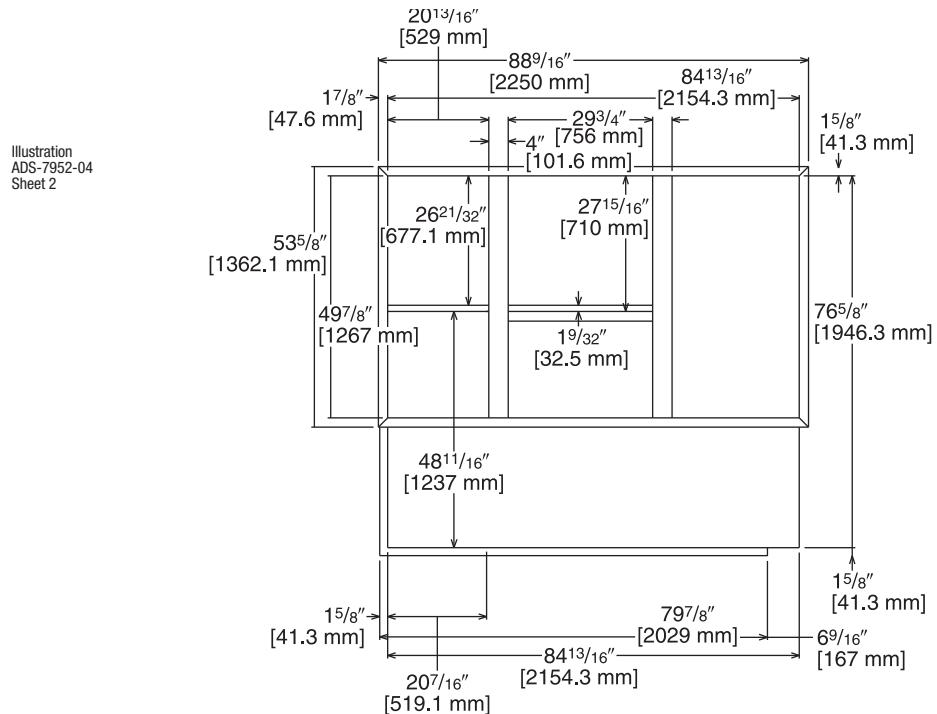


Illustration
ADS-7952-03
Sheet 1

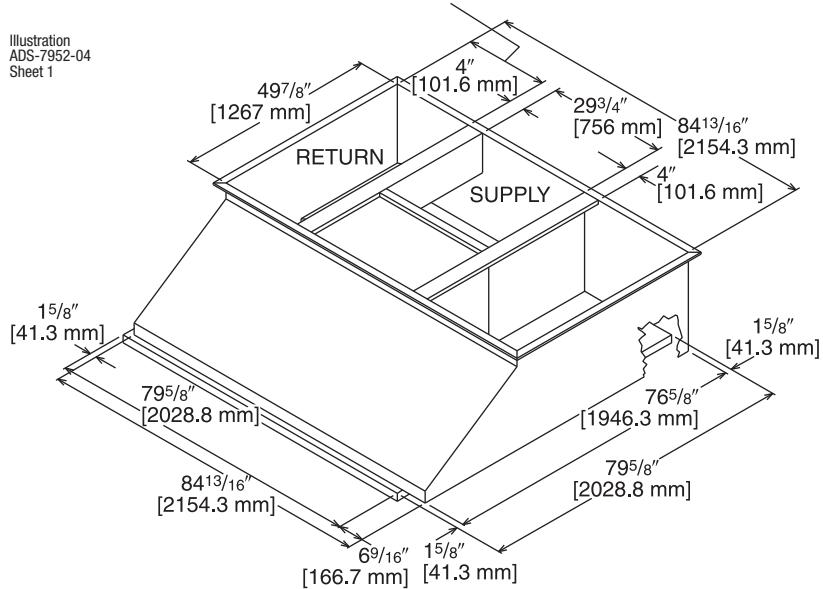
[] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

RXRX-CGCC12



TOP VIEW



[] Designates Metric Conversions

CONCENTRIC DIFFUSER APPLICATION

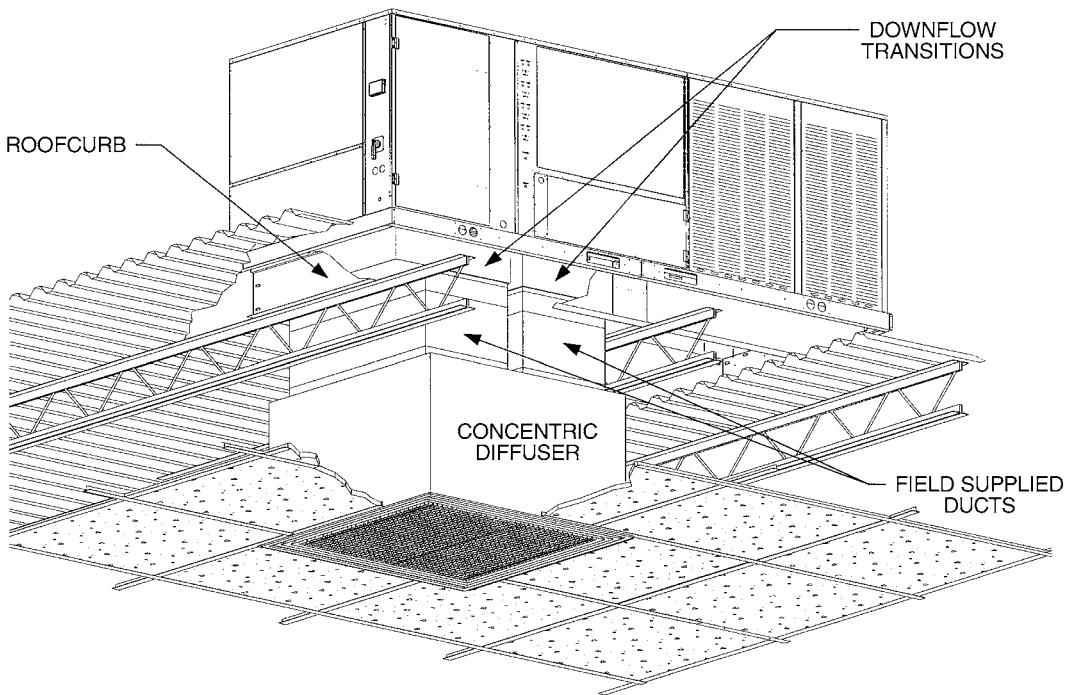


Illustration
ST-A0840-02

DOWNFLOW TRANSITION DRAWINGS

RXMC-CE05

- Used with RXRN-AA61 or RXRN-AA71 Concentric Diffusers.

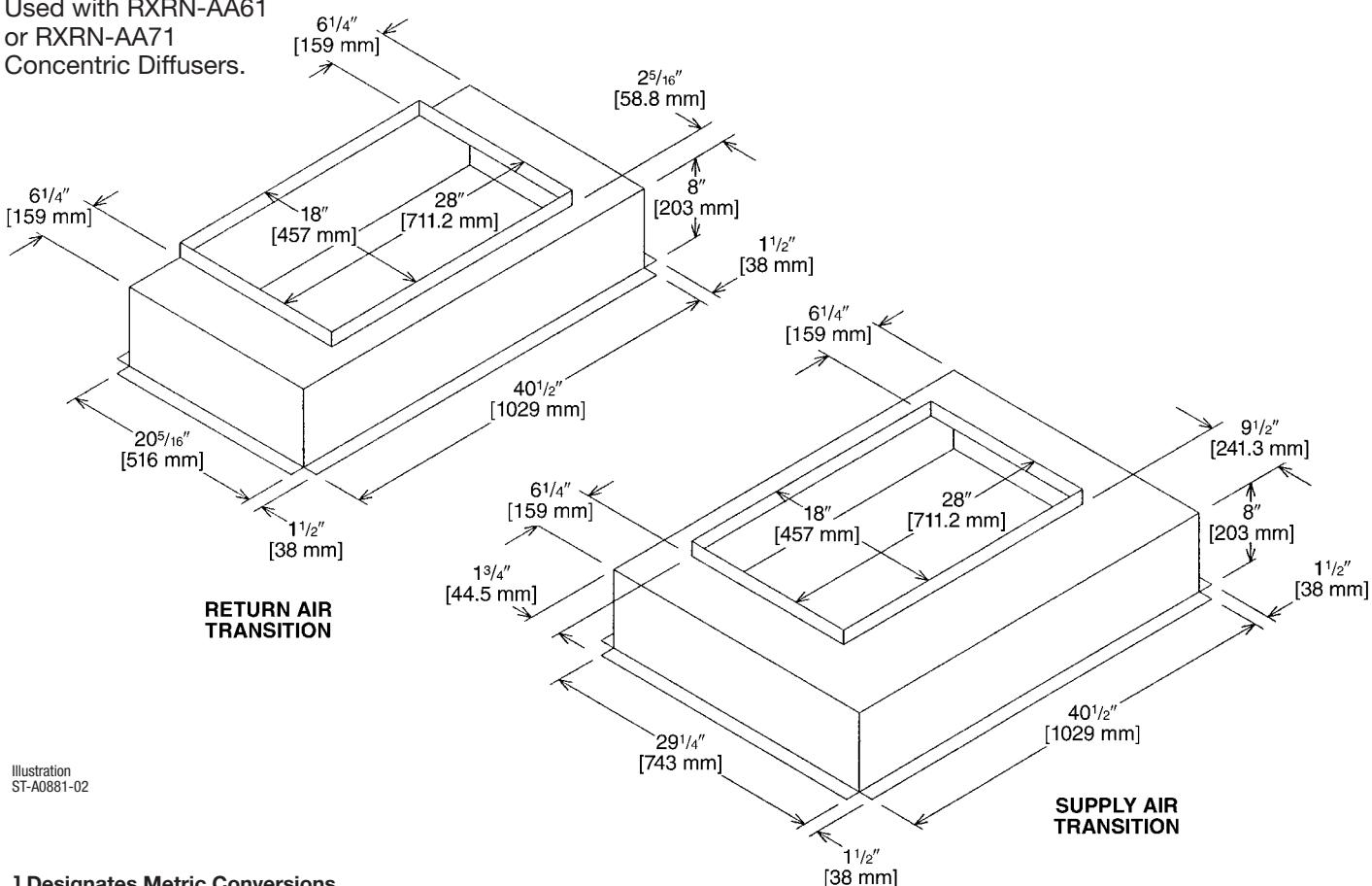


Illustration
ST-A0881-02

[] Designates Metric Conversions

DNDFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CF06

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

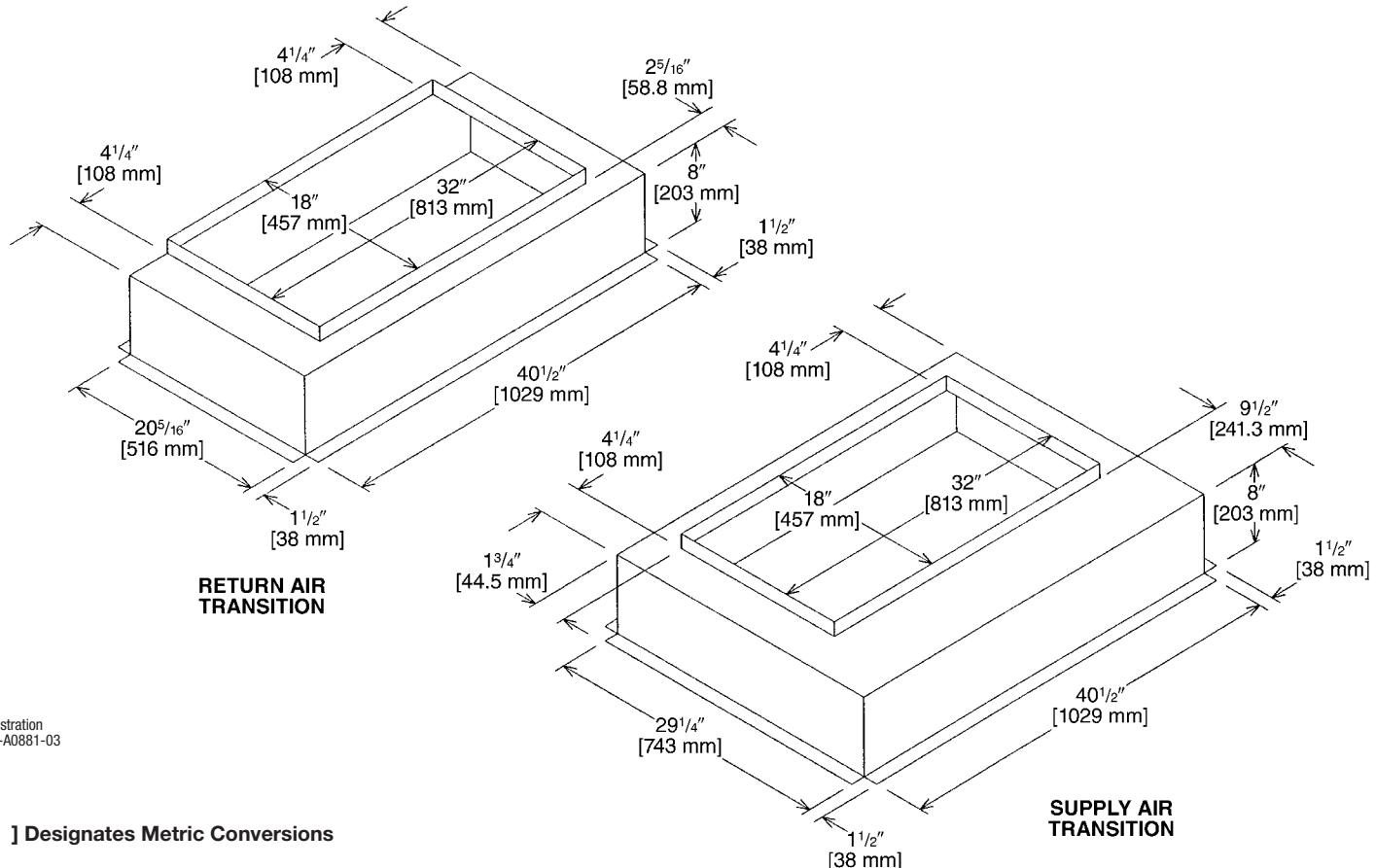


Illustration
ST-A0881-03

DOWNFLOW TRANSITION DRAWINGS (Cont.)**RXMC-CD04**

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

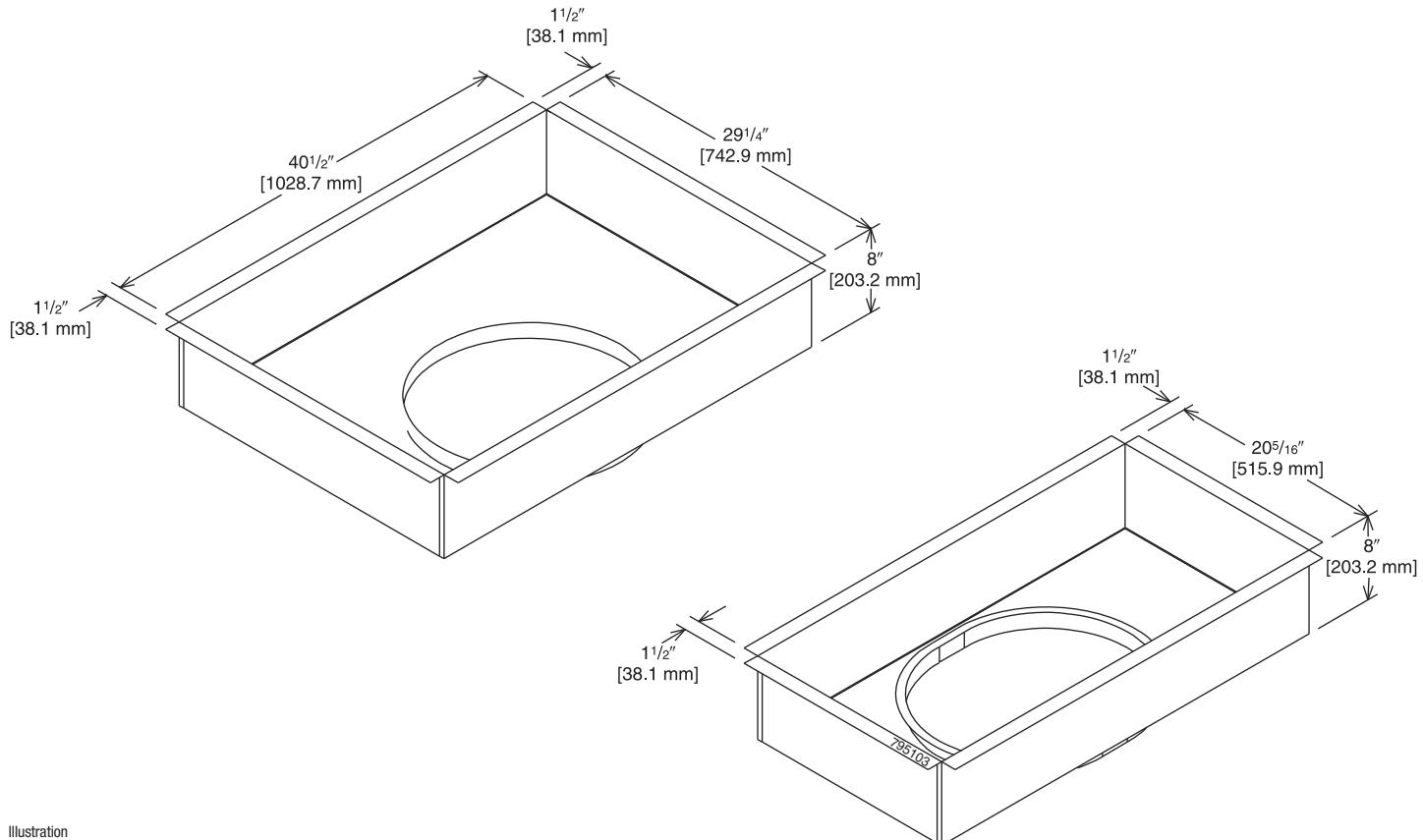


Illustration
ADS-7951-03

[] Designates Metric Conversions

CONCENTRIC DIFFUSER—STEP DOWN

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

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

- 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.

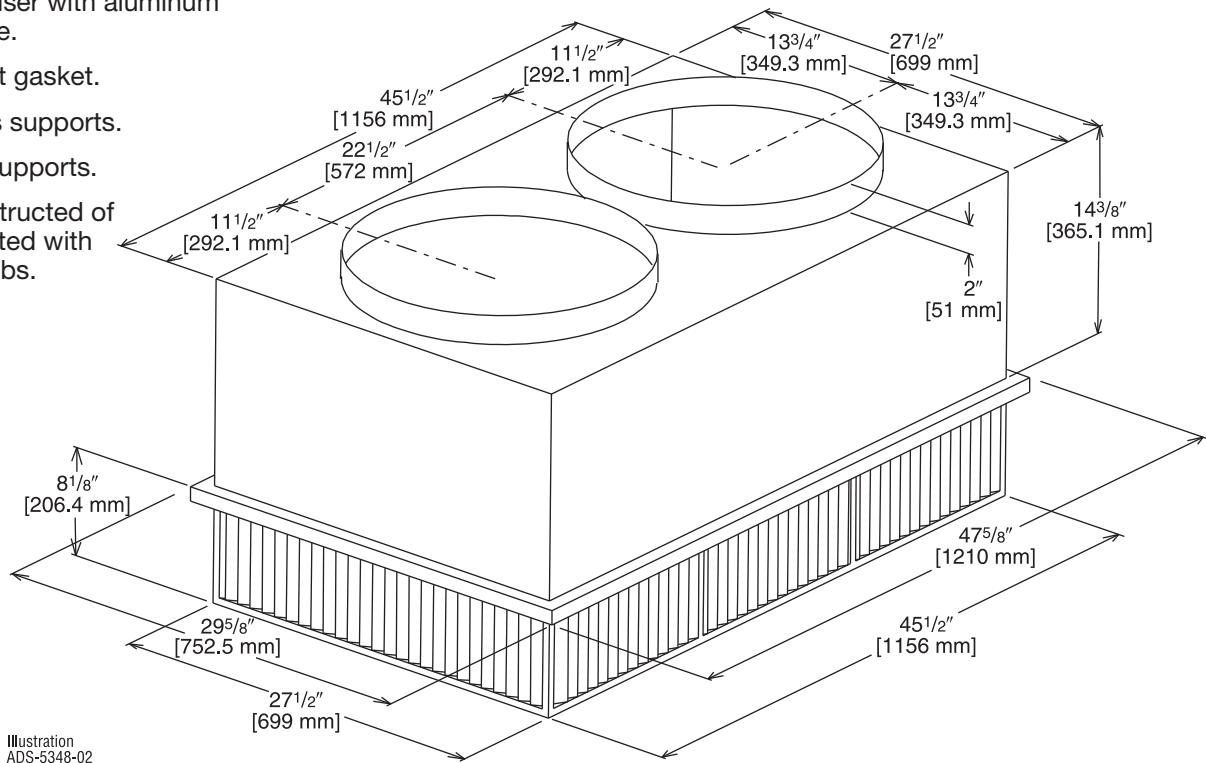


Illustration
ADS-5348-02

ENGINEERING DATA^①

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

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

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

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

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

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

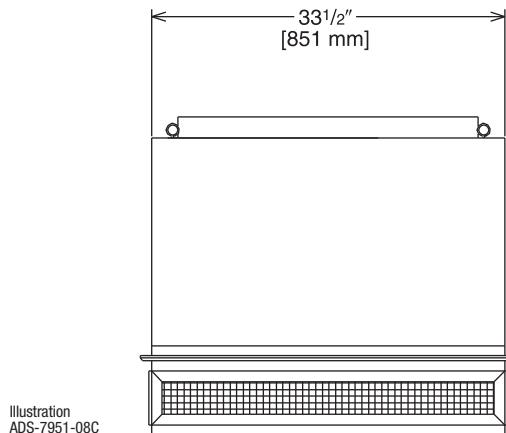
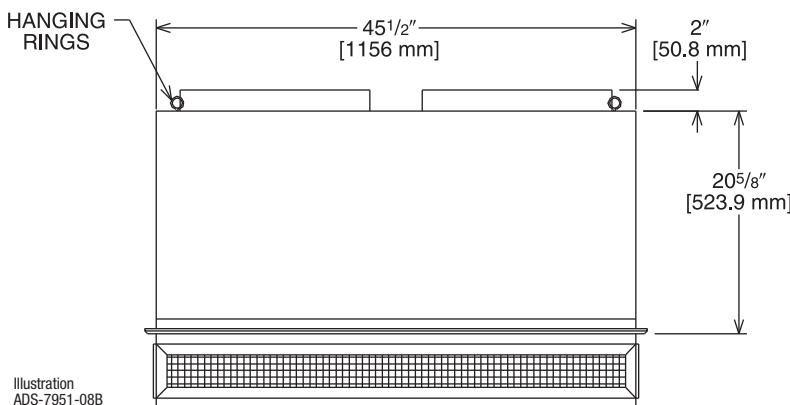
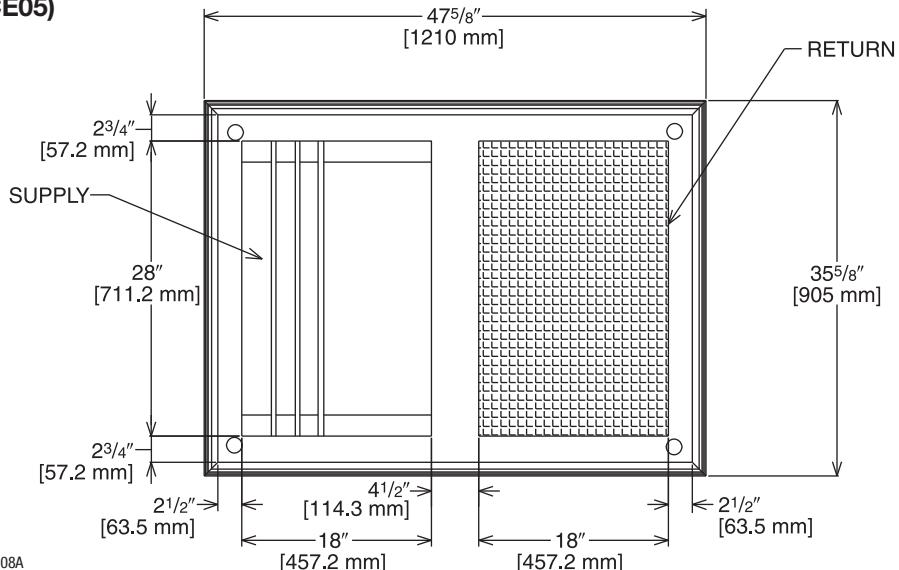
[] Designates Metric Conversions

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

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

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

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

**ENGINEERING DATA^①**

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

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

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

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

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

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

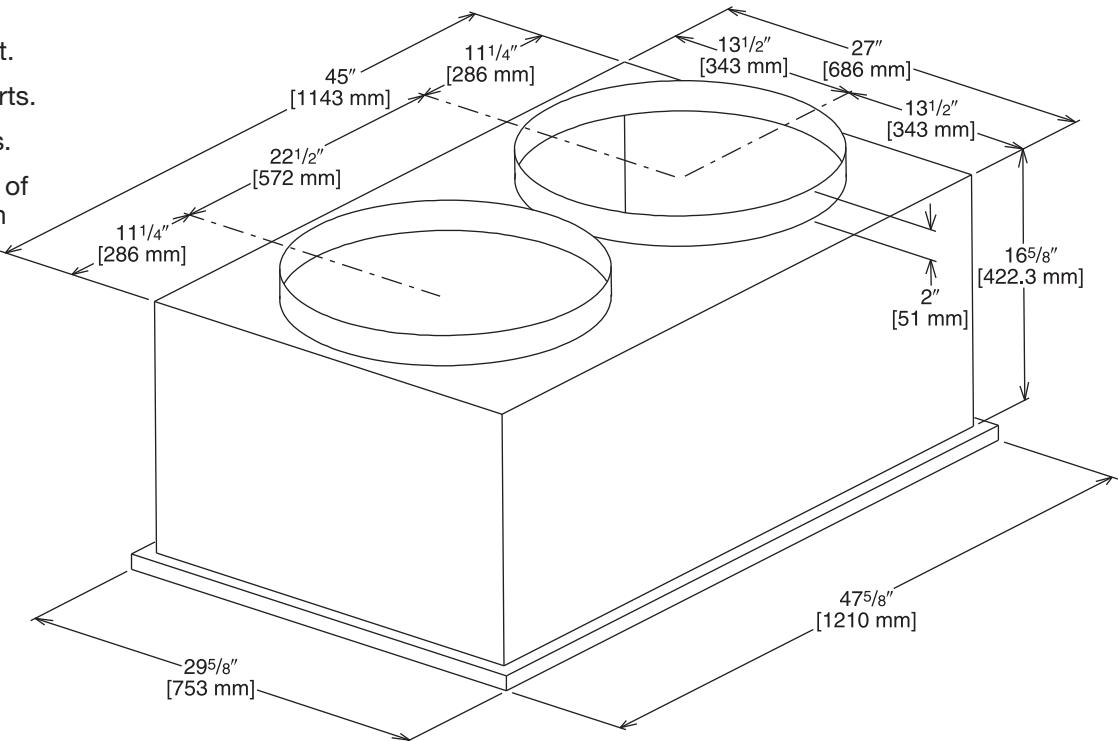
[] Designates Metric Conversions

FLUSH MOUNT CONCENTRIC DIFFUSER—FLUSH

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

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

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



ENGINEERING DATA^①

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

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

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

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

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

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

[] Designates Metric Conversions

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

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

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

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

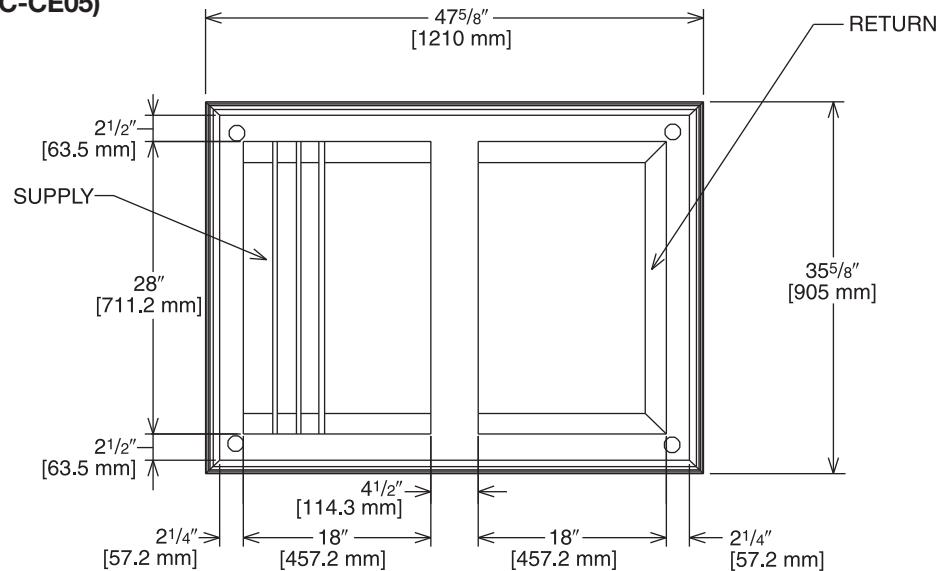


Illustration
ADS-7951-06A

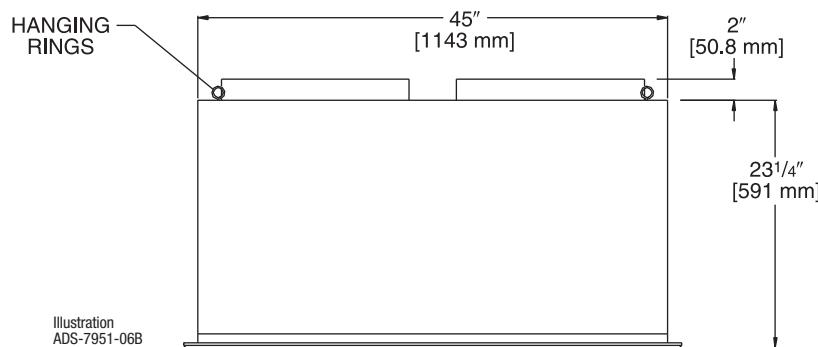


Illustration
ADS-7951-06B

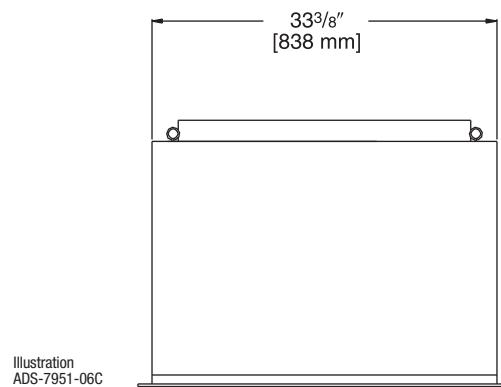


Illustration
ADS-7951-06C

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ^{②③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dBa)
RXRN-AA71	3600 [1699]	0.17 [0.042]	22-29 [6.7-8.8]	844 [4.3]	35
	3800 [1793]	0.18 [0.045]	22-30 [6.7-9.1]	891 [4.5]	40
	4000 [1888]	0.21 [0.052]	24-33 [7.3-10.1]	938 [4.8]	40
	4200 [1982]	0.24 [0.060]	26-35 [7.9-10.7]	985 [5.0]	40
	4400 [2076]	0.27 [0.067]	28-37 [8.5-11.3]	1032 [5.2]	40

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

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

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

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

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

[] Designates Metric Conversions

General

Units shall be convertible airflow. Operating range for units with electromechanical controls shall be between 125°F (51.7°C) and 50°F (4.4°C). Cooling performance shall be rated in accordance with DOE and/or AHRI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-410A, and 100 percent run-tested before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be UL listed and labeled, classified in accordance to UL 1995/CAN/CSA No. 236-M90 for central cooling air conditioners. Canadian units shall be CUL certified.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 1000 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. All exposed vertical panels and top covers in the indoor air section shall be insulated with a cleanable foil faced, fire retardant permanent, odorless glass fiber material and secured with adhesive and mechanical fasteners. The base of the unit shall be insulated with foil-faced material. All insulation edges shall be either captured or sealed. The unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1-1/8" [28.58 mm] high downflow supply return openings to provide an added water integrity precaution. The base rails of the unit shall have provisions for forklift and crane lifting, with forklift capabilities on three sides of the unit.

Unit Top

The indoor top cover shall be one-piece construction, it shall not be double-hemmed and gasket-sealed.

Filters

Two inch [50.8 mm], throwaway filters shall be standard on all units.

Compressors

Units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads shall be provided with the scroll compressors. The compressor shall have external isolation to minimize noise.

Refrigerant Circuits

Each refrigerant circuit shall have orifice refrigerant control expansion device or TXV. Service pressure ports, shall be factory-installed as standard.

Evaporator Coils and MicroChannel Condenser Coils

Evaporator shall be internally finned, 3/8" [9.53 mm] copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. Condenser coil shall be MicroChannel. Coils shall be leak tested at the factory to ensure pressure integrity. The evaporator coil and condenser coil shall be leak tested to 200 psig and pressure tested to 450 psig. A sloped condensate drain pan shall be standard and shall be removable.

Outdoor Fans

The outdoor fans shall be direct-drive statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

Indoor Fans

All 3-phase units offer belt drive, FC centrifugal fans with adjustable motor sheaves. All motors shall be thermally protected. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Controls

Unit shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Units shall provide an external location for mounting a fused disconnect device.

24-volt electromechanical control circuit shall include control transformer and contactor pressure lugs for power wiring. Unit shall have single point power entry as standard.

Accessories/Option

Roof Curb—The roof curb shall be designed to mate with the unit's downflow supply and return openings and provide support and a watertight installation when installed properly. The roof curb design shall allow field-fabricated rectangular supply/return ductwork to be connected directly to the curb. Curb design shall comply with NRCA requirements. Curbs shall be shipped knocked down for tool-less field assembly and shall include wood nailer strips.

Economizer—This accessory shall be either field or factory-installed and is available with barometric relief standard. The assembly includes direct drive gear driver, fully modulating 0-100 percent motor and dampers, minimum position setting, mixed air sensor, wiring harness with plug, and single enthalpy control. Optional differential enthalpy control shall be field-installed. The factory-installed economizer arrives ready for operation.

Remote Potentiometer—Field installed, the minimum position setting of economizer shall be adjusted with this accessory.

Motorized Outside Air Dampers

Field-installed manually set outdoor air dampers shall provide up to 50 percent outside air. Once set, outdoor air dampers shall open to set position when indoor fan starts. The damper shall close to the full closed position when indoor fan shuts down.

Manual Outside Air Damper—Factory or field-installed rain hood and screen shall provide up to 50 percent outside air.

Oversized Motors—Factory installed belt drive oversized motors shall be available for high static applications.

Powered Exhaust—The field installed powered exhaust, available for all units, shall provide exhaust of return air, when using an economizer, to maintain better building pressurization.

[] Designates Metric Conversions

Through the Base Electrical Access—An electrical service entrance shall be factory provided allowing electrical access for both control and main power connection inside the curb and through the base of the unit. Option will allow for field installation of liquid-tight conduit and an external field-installed disconnect switch.

Through the Base Electrical with Disconnect Switch—Factory-installed 3-pole, molded case disconnect switch with provisions for through the base electrical connections are available. The disconnect switch will be installed in the unit in a watertight enclosure with access through a hinged door. Factory wiring will be provided from the switch to the unit high voltage terminal block. The switch will be UL/CSA agency recognized. Note: The disconnect switch will be sized per NEC and UL guidelines but will not be used in place of unit over current protection.

Freeze/Clogged Filter Switches—This factory or field-installed option allows for individual fan failure or dirty filter protection. If indoor coil gets too cold due to low airflow, compressor operation will be temporarily interrupted.

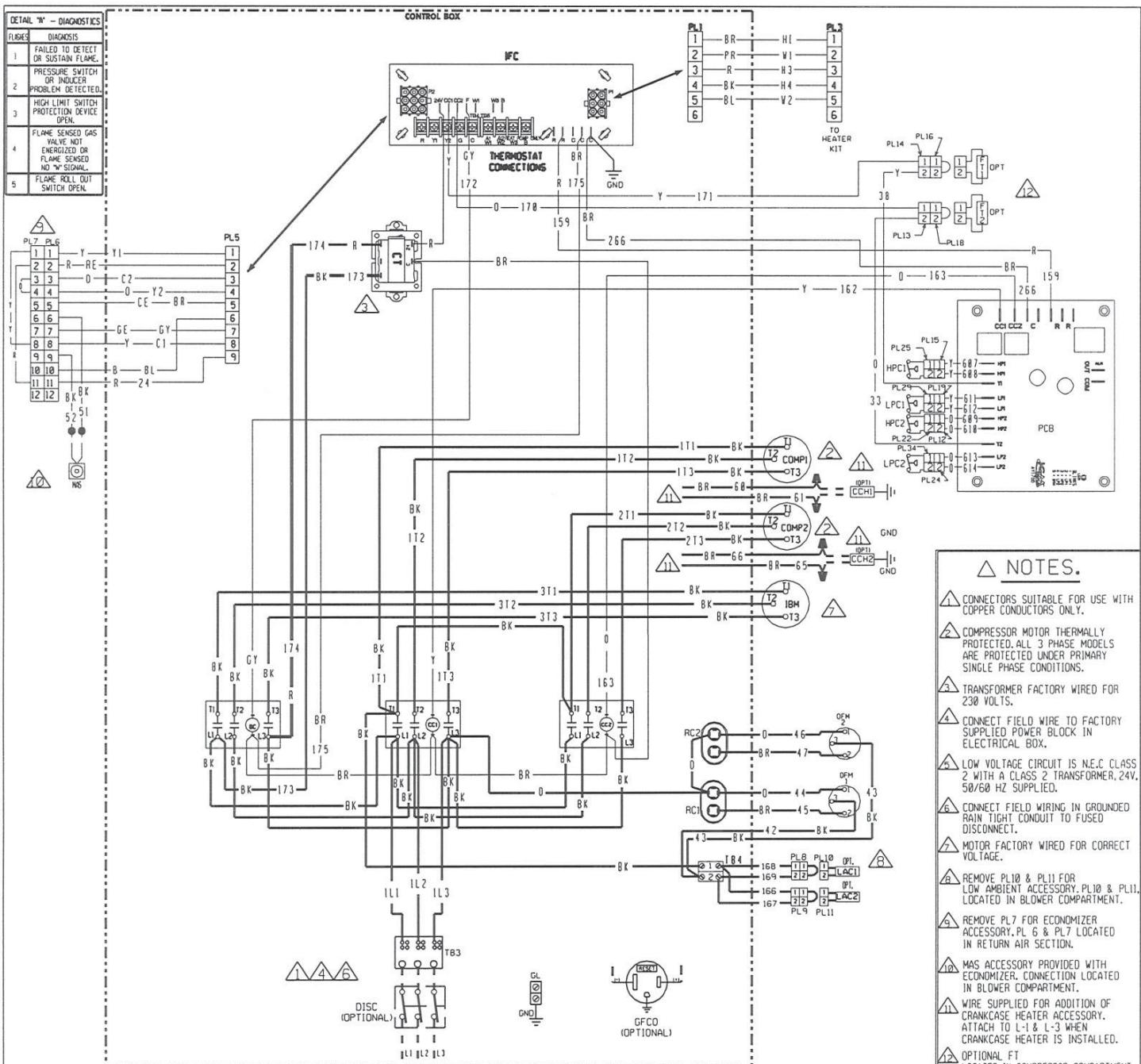
Enthalpy Control—Single Enthalpy Control shall be standard for all economizers. Enthalpy control offers a higher level of comfort control, along with energy savings potential, than the standard dry bulb control. This is due to the additional wet bulb sensing capability.

High Pressure Cutout—High pressure cutout shall be standard on all models and 1/4 turn fasteners. All scroll compressors shall include Internal Pressure Relief as standard.

Thermostats—Two stage heating and cooling operation shall be available, for field installation, in either manual or automatic changeover. Automatic programmable electronic with night set back shall also be available.

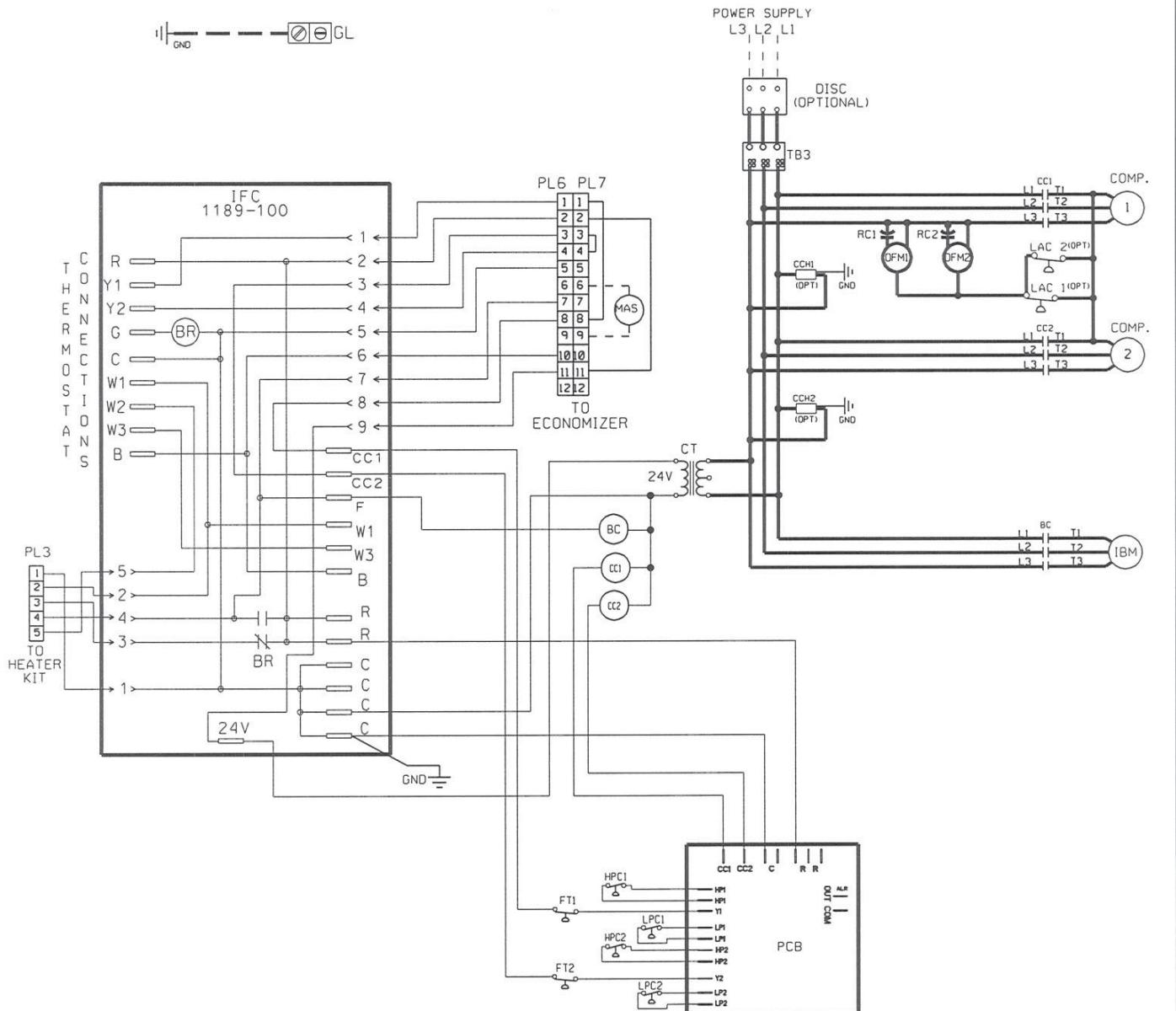
Differential Enthalpy—Adds on to the standard single control with other enthalpy sensors that compare total heat content of the indoor air and outdoor air to determine the most efficient air source. This control option offers the highest level of comfort control, plus energy efficiency available.

Low Ambient Cooling—Electromechanical models have cooling capabilities to 40°F as built, or to 0°F by adding the optional low ambient (frostat) control.



COMPONENT CODE	WIRING INFORMATION	WIRE COLOR CODE															
BC BLOWER CONTACTOR CC COMPRESSOR CONTACTOR CCH CRANKCASE HEATER COMP COMPRESSOR CT CONTROL TRANSFORMER DISC DISCONNECT SWITCH FLMS FLAME SENSOR FT FREEZE STAT GFCO GROUND FAULT CONVENIENCE OUTLET GE GROUND LUG GND GROUND GV GAS VALVE HPC HIGH PRESSURE CONTROL IMB INDOOR BLOWER MOTOR BELT DRIVE IDM INDUCED DRAFT MOTOR IFC INTEGRATED FURNACE CONTROL	<p>LAC LOW AMBIENT COOLING CONTROL LC LIMIT CONTROL LPC LOW PRESSURE CONTROL MRLC MANUAL RESET LIMIT CONTROL MAS MIX AIR SENSOR NPC NEGATIVE PRESSURE CONTROL OFM OUTDOOR FAN MOTOR PCB PRESSURE CONTROL BOARD PL10, PL11 RE RUN CAPACITOR SE SPARK ELECTRODE TB TERMINAL BLOCK WIRE NUT</p> <p>LINE VOLTAGE -FACTORY STANDARD -FACTORY OPTION -FIELD INSTALLED</p> <p>LOW VOLTAGE -FACTORY STANDARD -FACTORY OPTION -FIELD INSTALLED</p> <p>REPLACEMENT WIRE -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)</p> <p>WARNING -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., CEC. AND LOCAL CODES AS APPLICABLE.</p>	<table border="1"> <tr> <td>BK</td><td>BLACK</td><td>O ORANGE</td></tr> <tr> <td>BR</td><td>BROWN</td><td>PR PURPLE</td></tr> <tr> <td>BL</td><td>BLUE</td><td>R RED</td></tr> <tr> <td>G</td><td>GREEN</td><td>W WHITE</td></tr> <tr> <td>GY</td><td>GRAY</td><td>Y YELLOW</td></tr> </table>	BK	BLACK	O ORANGE	BR	BROWN	PR PURPLE	BL	BLUE	R RED	G	GREEN	W WHITE	GY	GRAY	Y YELLOW
BK	BLACK	O ORANGE															
BR	BROWN	PR PURPLE															
BL	BLUE	R RED															
G	GREEN	W WHITE															
GY	GRAY	Y YELLOW															
		WIRING DIAGRAM															
		(-)LKL/LNL-B151															
		208-230/460/575V 3 PH, 60 HZ.															
		200-220/380-415V, 3 PH, 50HZ															
		DR. BY MGR APP. BY MEB DATE 8-14-12 DWG. NO. 90-102892-05 REV 01															

Sure Comfort® RLKL-B Package Air Conditioner



COMPONENT CODE

BC	BLOWER MOTOR CONTACTOR	MAS	MIXED AIR SENSOR
BR	BLOWER RELAY	OPT	OPTIONAL
CC	COMPRESSOR CONTACTOR	PCB	PRESSURE CONTROL BOARD
CCH	CRANKCASE HEATER	PL	PLUG
COMP	COMPRESSOR	RC	RUN CAPACITOR
CT	CONTROL TRANSFORMER	TB	TERMINAL BLOCK
FT	FREEZE STAT		
GL	GROUND LUG		
GND	GROUND		
HPC	HIGH PRESSURE CONTROL		
IBM	INDOOR BLOWER MOTOR		
IFC	INTEGRATED FURNACE CONTROL		
LAC	LOW AMBIENT CONTROL		
LPC	LOW PRESSURE CONTROL		

WIRING INFORMATION

LINE VOLTAGE:
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

LOW VOLTAGE:
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

REPLACEMENT WIRE:
 -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)

WARNING:
 -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

WIRE COLOR CODE

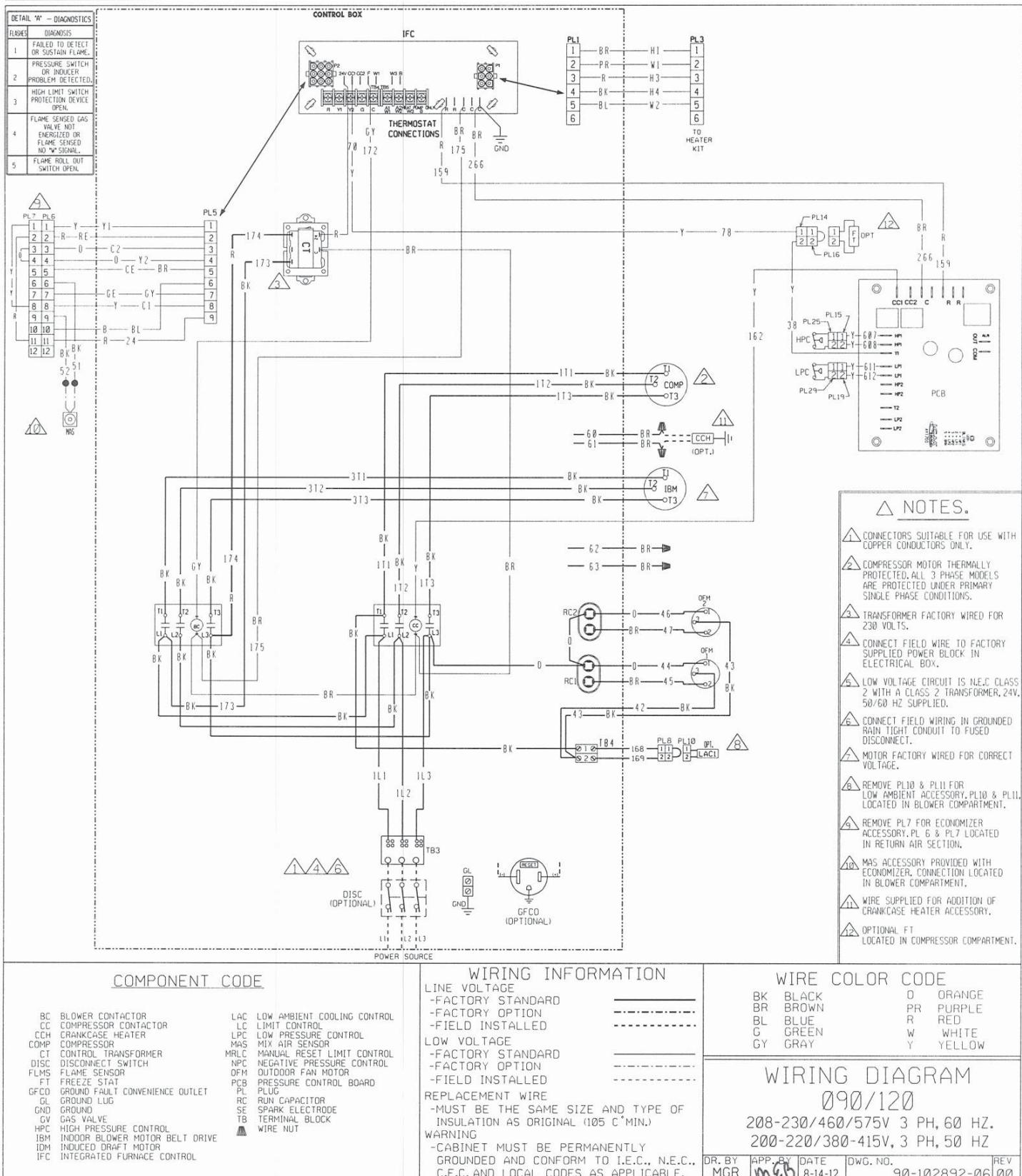
BK	BLACK	O	ORANGE
BR	BROWN	PR	PURPLE
BL	BLUE	R	RED
G	GREEN	W	WHITE
GY	GRAY	Y	YELLOW

WIRING SCHEMATIC

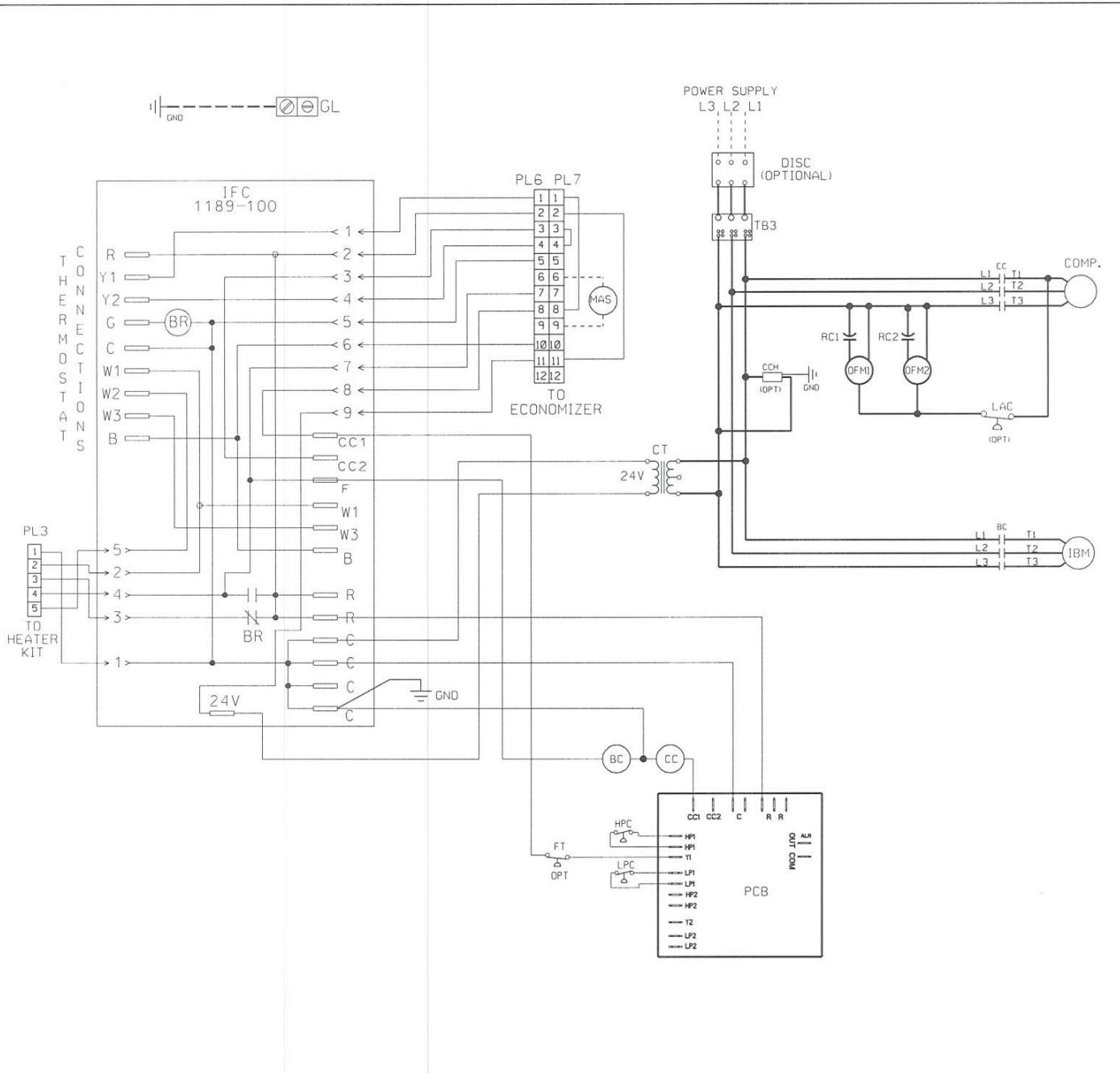
(-)LKL/LNL-B151

208-230, 3PH, 60HZ./460/575V, 3PH, 60HZ.
 200-220/380-415V 3PH, 50HZ

DR. BY APP. BY DATE DWG. NO. REV
 MGR mfb 8-16-12 90-102893-05 01



Sure Comfort® RLKL-B Package Air Conditioner



COMPONENT CODE

BC	BLOWER MOTOR CONTACTOR	MAS	MIXED AIR SENSOR
BR	BLOWER RELAY	OFM	OUTDOOR FAN MOTOR
CC	COMPRESSOR CONTACTOR	OPT	OPTIONAL
CCH	CRANKCASE HEATER	PCB	PRESSURE CONTROL BOARD
COMP	COMPRESSOR	PL	PLUG
CT	CONTROL TRANSFORMER	RC	RUN CAPACITOR
FT	FREEZE STAT	TB	TERMINAL BLOCK
GL	GROUND LUG		
GND	GROUND		
HPC	HIGH PRESSURE CONTROL		
IBM	INDOOR BLOWER MOTOR		
IFC	INTEGRATED FURNACE CONTROL		
LAC	LOW AMBIENT CONTROL		
LPC	LOW PRESSURE CONTROL		

WIRING INFORMATION

LINE VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

LOW VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

REPLACEMENT WIRE
 -MUST BE THE SAME SIZE AND TYPE OF
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WARNING
 -CABINET MUST BE PERMANENTLY
 GROUNDED AND CONFORM TO I.E.C., N.E.C.,
 C.E.C., NATIONAL WIRING REGULATIONS,
 AND LOCAL CODES AS APPLICABLE.

WIRE COLOR CODE

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

WIRING SCHEMATIC

090/120

208-230/460/575V, 3PH, 60HZ.
 200-220/380-415V, 3 PH 50 HZ

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR	MEB	8-14-12	90-102893-06	00

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

GENERAL TERMS OF LIMITED WARRANTY*

Sure Comfort® 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 ApplicationsFive (5) Years

Parts

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



Sure Comfort®

P.O. Box 17010, Fort Smith, AR 72917

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