Ruud *Commercial Value Series*
Package Air Conditioner

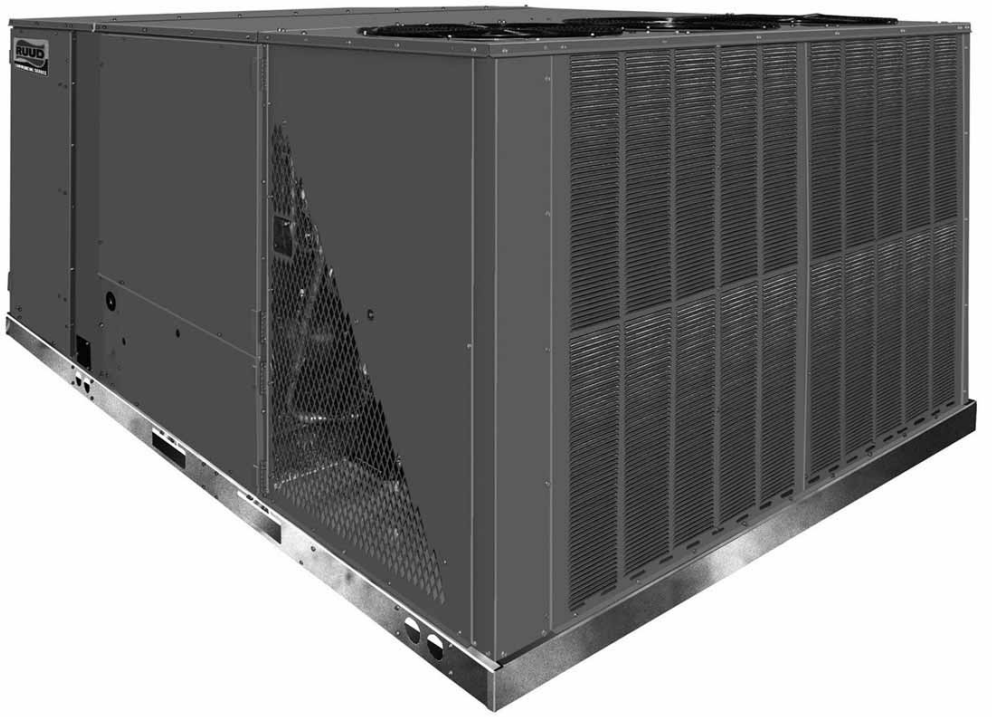
RLKL-B High Efficiency Series

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."

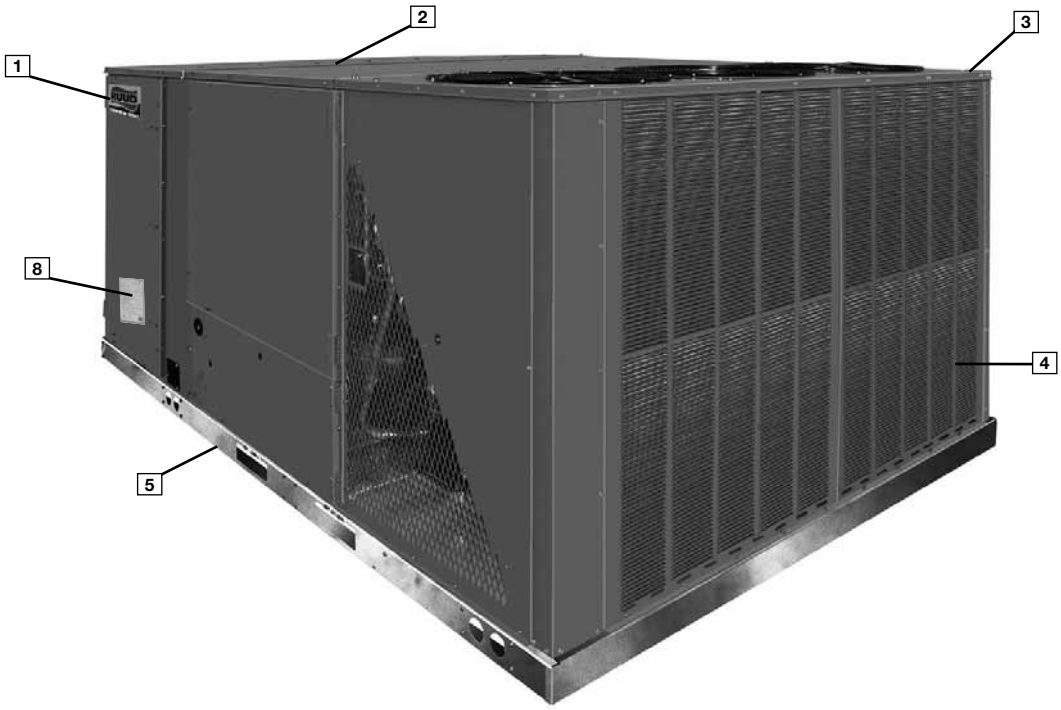
TABLE OF CONTENTS

These quality features are included in the Ruud Package Air Conditioner Unit



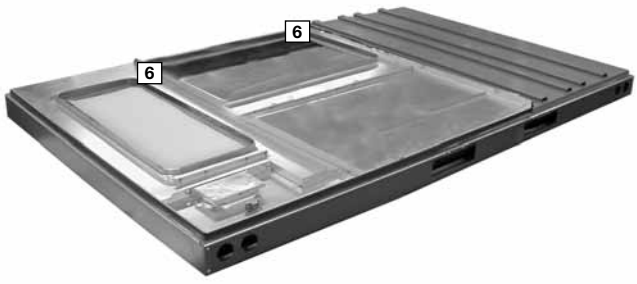
STANDARD FEATURES INCLUDE:

- 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.



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

Anything built to last must start with the right foundation. In this case, the foundation is 14-gauge, commercial-grade, full-perimeter base rails **(5)**, which integrate fork slots and rigging holes to save set-up time on the job site. The base pan is stamped, which forms a 1-1/8" flange around the supply and return cover and has eliminated the worry of water entering the conditioned space **(6)**. The 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.

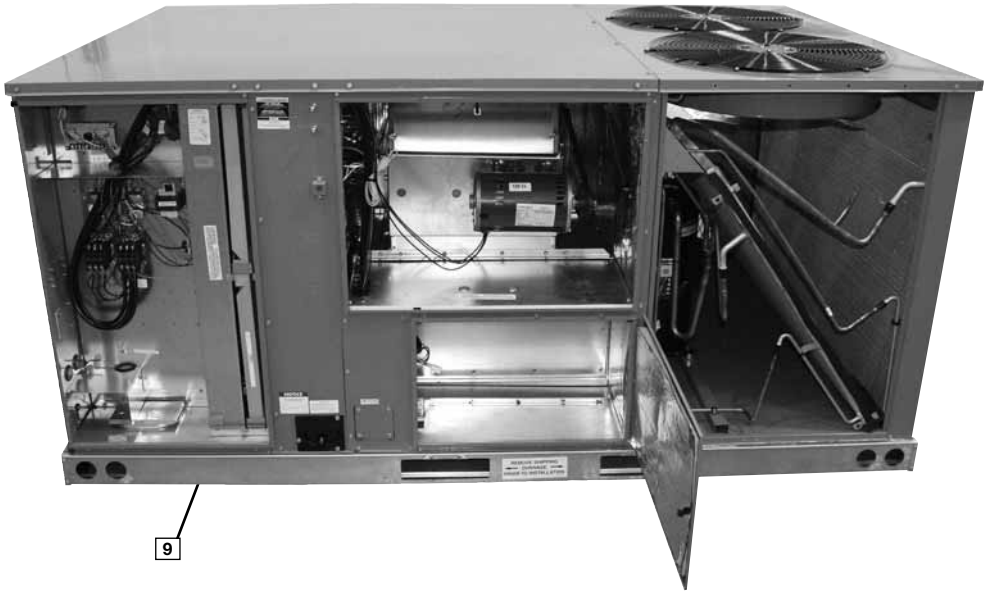


During development, each unit was tested to U.L. 1995, AHRI 340-370 and other Ruud-required reliability tests. Ruud adheres to stringent IS0 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can rest assured that when a Ruud 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.

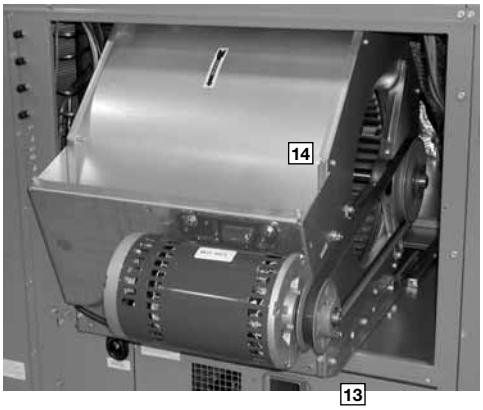
The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having 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.

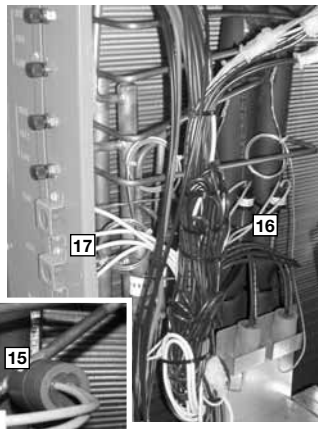


Inside the control box **(10)**, each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The control transformer has a low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

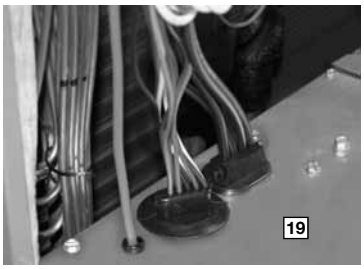
To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection **(12)**. With the gauge ports mounted externally, an 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, Ruud has high-static drives available that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing **(14)** and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an “H” bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The “H” bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which can score the shaft, creating burrs that make blower-pulley removal difficult.



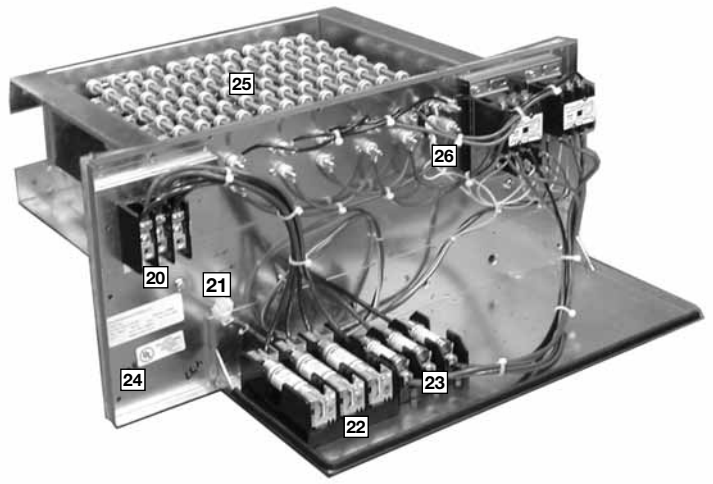


Also inside the blower compartment is the low-ambient control **(15)**, low-pressure switch **(16)**, high-pressure switch **(17)** and freeze stat refrigerant safety device **(18)** (optional). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling 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 sharder 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.



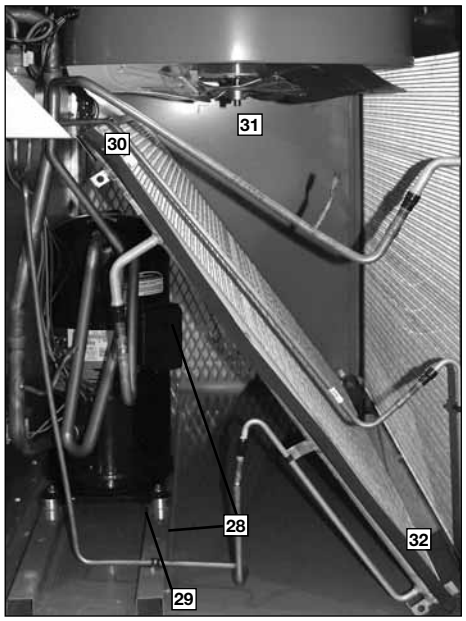
Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly **(19)** provides an air-tight and water-tight seal, and provides strain relief. Care is also taken to tuck raw edges of insulation behind sheet 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.

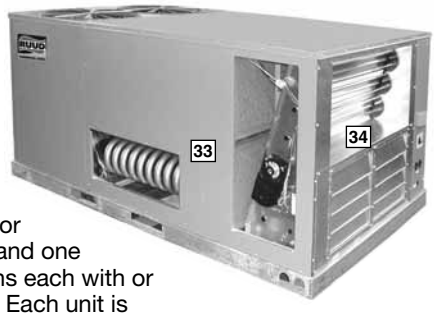
Power hook-up in the field is easy with single-point wiring to a terminal block **(20)** and a polarized plug for the low-voltage connection **(21)**. The electric furnace comes with fuses for the unit **(22)** and for the electric furnace **(23)**, and is UL certified **(24)**. The electric heating 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 heartbeat 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.

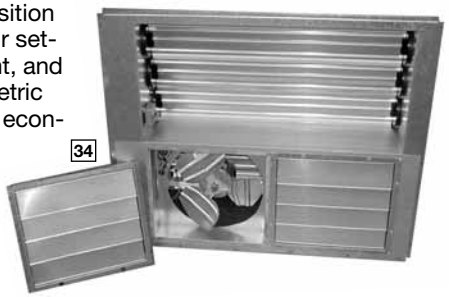


Each unit comes standard with filter dryer **(30).** The condenser fan motor **(31)** can easily be accessed and maintained through the compressor compartment. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

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 CO^2 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 Ruud 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.

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):

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

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

Sensible Capacity = 92,268 BTUH [27.24 kW]

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

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

Total Capacity, 118,900 x .98 = 116,522 BTUH [34.15 kW]
Sensible Capacity, 92,268 x .95 = 87,655 BTUH [25.67 kW]
Power Input 11,650 x .99 = 8,861 Watts

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

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

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

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

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

BTUH = 1,650 x 3.412 = 5,630

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

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

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

7. CALCULATE UNIT INPUT AND JOB EER.

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

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

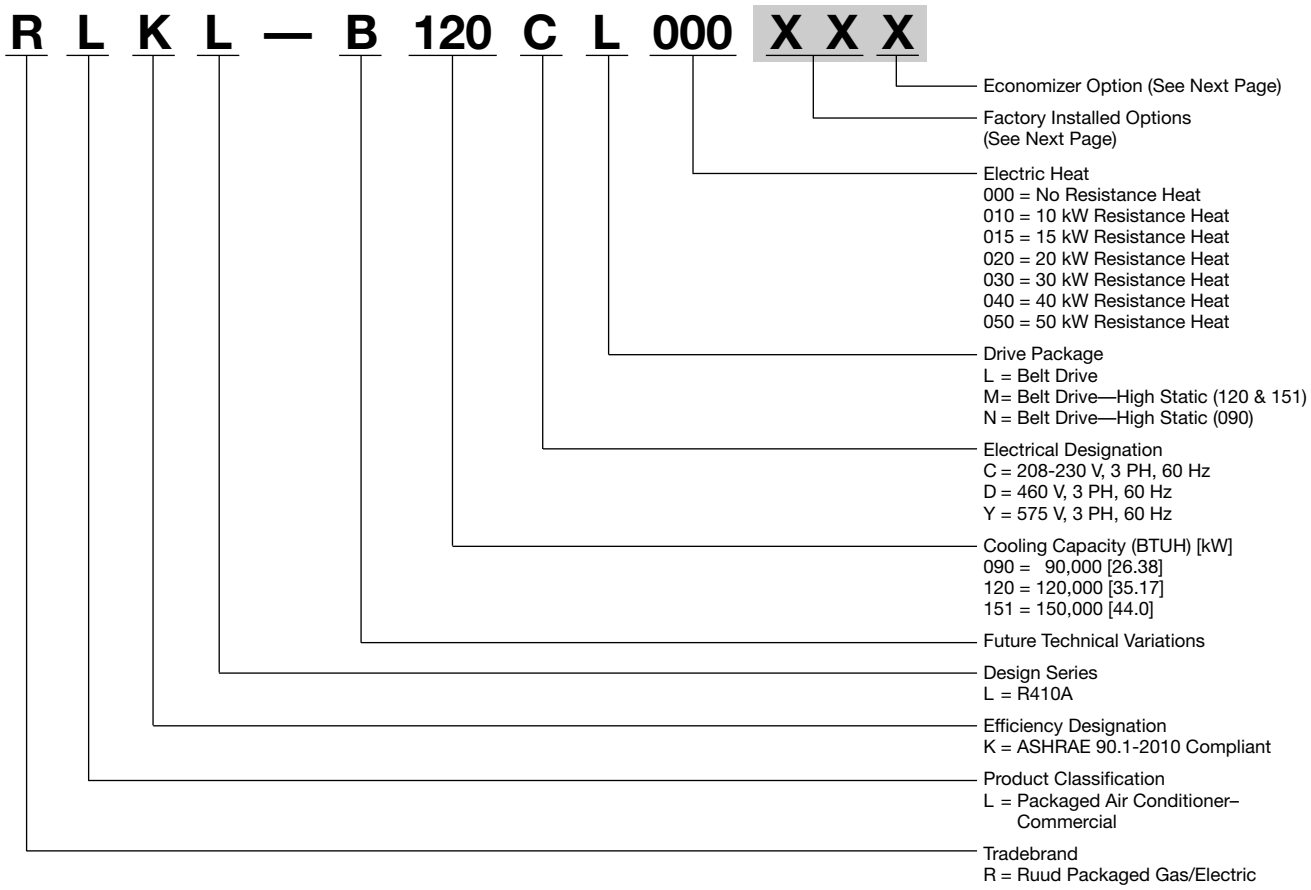
8. SELECT UNIT HEATING CAPACITY.

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

CC51C	Heater Kit
kW x 3412	= 163,776 BTUH [48.00 kW]
	+ 5,630 BTUH [1.65 kW]
Heating Capacity	= 169,406 BTUH [49.65 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



[ ] Designates Metric Conversions

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-B120CL000 .....this unit has no factory installed options.

RLKL-B120CL000**ADA** .....this unit is equipped with *hail guards.*

RLKL-B120CL000**BYA** .....this unit is equipped with *hail guards, low ambient and unit freeze stat.*

RLKL-B120CL000**BYF** .....this unit is equipped as above *and* includes an *Economizer with single enthalpy sensor and with barometric relief.*

RLKL-B120CL000**AAG** .....this 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- Series	B090CL	B090CM	B090CN	B090DL
Cooling Performance[1]				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	1 at 1/2 HP	1 at 1/2 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- Series	B090DM	B090DN	B090YL	B090YM
Cooling Performance[1]				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	1 at 1/2 HP	1 at 1/2 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- Series	B090YN	B120CL	B120CM	B120DL
Cooling Performance[1]				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- Series	B120DM	B120DL	B120YM	B151CL
Cooling Performance[1]				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- Series	B151CM	B151DL	B151DM	B151YL
Cooling Performance[1]				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	2 at 1/2 HP	2 at 1/2 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- Series	B151YM
Cooling Performance[1]	
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	Louvered
Tube Type	MicroChannel
MicroChannel Depth In. [mm]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]
Rows / FPI [FPcm]	2 / 23 [9]
Indoor Coil—Fin Type	Louvered
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	Propeller
No. Used/Diameter in. [mm]	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	FC Centrifugal
No. Used/Diameter in. [mm]	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	Disposable
Furnished	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 ±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] dbE 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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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] dbE 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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		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]
		Power	11.4	11.1	11.0	11.2	10.9	10.8	11.0	10.7	10.6

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

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

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

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—B151

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			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
dbE —Entering air dry bulb
wbE—Entering air wet bulb

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

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

[ ] Designates Metric Conversions

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

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	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2400 [1133]	—	—	—	—	540	580	582	664	612	729	645	812	711	890	740	952	770	1014	799	1076	828	1138	857	1200	887	1261	929	1538	958	1623	987	1709	1017	1794	1046	1879	1075	1965	1105	2050
2500 [1180]	—	—	—	—	552	633	593	717	624	791	656	878	720	950	749	1012	778	1074	808	1136	837	1198	866	1260	895	1322	936	1602	965	1687	995	1773	1024	1858	1053	1944	1083	2029	1112	2114
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	1922	1061	2008	1090	2093	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	708	1069	746	1131	775	1192	804	1254	834	1316	863	1378	892	1440	928	1709	958	1794	987	1880	1016	1965	1046	2050	1075	2136	1104	2221	1134	2307
2900 [1369]	—	—	569	801	604	866	638	956	673	1069	725	1129	755	1191	784	1253	813	1315	842	1376	872	1438	906	1688	936	1773	965	1858	994	1944	1024	2029	1053	2115	1082	2200	1112	2285	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	1435	860	1497	889	1559	921	1816	950	1901	979	1987	1009	2072	1038	2157	1068	2243	1097	2328	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	898	1619	928	1880	957	1965	987	2051	1016	2136	1045	2222	1075	2307	1104	2392	1134	2478	1163	2563
3300 [1557]	592	954	628	1096	660	1168	692	1274	731	1307	760	1369	789	1431	818	1493	848	1555	877	1617	906	1859	935	1944	965	2029	994	2115	1023	2200	1053	2286	1082	2371	1111	2456	1141	2542	1170	2627
3400 [1605]	607	1030	643	1180	673	1247	710	1306	739	1368	769	1430	798	1491	827	1553	856	1615	886	1677	913	1923	943	2008	972	2094	1001	2179	1031	2264	1060	2350	1089	2435	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	979	2158	1009	2243	1038	2328	1067	2414	1097	2499	1126	2585	1155	2670	1185	2756
3600 [1699]	638	1202	672	1361	704	1440	728	1426	757	1488	786	1550	815	1612	844	1674	874	1735	903	1797	928	2051	957	2136	986	2222	1016	2307	1045	2393	1075	2478	1104	2563	1133	2649	1163	2734	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**	4	5	6	1	2	**3**	4	5	6	1	2	3	4	5	**6**
RPM	682	650	**620**	587	555	523	869	838	**806**	774	742	710	1157	1106	1056	1005	954	**904**

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—CFM [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.

[ ] Designates Metric Conversions

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

Component	Standard Indoor Airflow—CFM [L/s]						
	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1604]	3600 [1699]
	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	.017 [0.042]	.020 [0.050]	.025 [0.062]	.031 [0.077]	.037 [0.092]	DNA
Concentric Diffuser RXRN-AA61 or AA71 & Transition RXMC-CE05	DNA	DNA	DNA	DNA	DNA	DNA	.017 [0.042]
Economizer 100% R.A. Damper Open	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]
Horizontal Economizer 100% R.A. Damper Open	0.03 [0.007]	0.04 [0.009]	0.04 [0.010]	0.05 [0.011]	0.05 [0.012]	0.06 [0.014]	0.06 [0.015]
Horizontal Economizer 100% O.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]

NOTE: Add component resistance to duct resistance to determine total external static pressure.
DNA = Data not Available.

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

Air Flow CFM [L/s]	Capacity 10 Ton [35.2 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]		2.1 [.52]		2.2 [.55]		2.3 [.57]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
3200 [1510]	—	—	—	—	—	—	657	1170	715	1245	742	1319	770	1394	797	1468	825	1543	852	1617	880	1692	956	1698	976	1703	996	1817	1017	1930	1037	2044	1057	2157	1077	2271	1098	2384	1118	2498	1138	2611	1159	2725	1179	2838
3300 [1557]	—	—	—	—	673	1179	701	1253	728	1328	756	1402	783	1477	811	1551	838	1626	866	1700	943	1705	963	1708	948	1822	976	1935	1024	2049	1044	2162	1065	2276	1085	2390	1105	2503	1125	2617	1146	2730	1166	2844	1186	2957
3400 [1605]	—	—	—	—	687	1261	714	1336	742	1410	769	1485	797	1559	824	1634	852	1708	879	1763	950	1811	971	1827	962	1941	989	2054	1032	2168	1052	2281	1072	2395	1092	2508	1113	2622	1133	2735	1153	2849	1174	2962	1194	3076
3500 [1652]	—	—	673	1270	700	1344	728	1419	755	1493	783	1588	810	1642	838	1717	865	1791	938	1813	958	1832	978	1946	975	2059	1003	2173	1039	2286	1059	2400	1080	2513	1100	2627	1120	2740	1141	2854	1161	2968	1181	3081	—	—
3600 [1699]	—	—	686	1352	714	1427	741	1501	769	1576	796	1650	824	1725	851	1799	879	1874	945	1892	966	1951	986	2065	989	2178	1016	2292	1047	2405	1067	2519	1087	2632	1108	2746	1128	2859	1148	2973	1168	3086	1189	3200	—	—
3700 [1746]	672	1361	700	1435	727	1510	755	1584	782	1659	810	1733	837	1808	865	1882	933	1896	953	1956	973	2070	993	2183	1002	2297	1030	2410	1054	2524	1075	2637	1095	2751	1115	2864	1135	2978	1156	3091	1176	3205	1196	3318	—	—
3800 [1793]	686	1443	713	1518	741	1592	768	1667	796	1741	823	1818	861	1890	878	1965	940	2003	960	2075	981	2189	1001	2302	1016	2416	1043	2529	1062	2643	1082	2756	1102	2870	1123	2983	1143	3097	1163	3210	1183	3324	—	—	—	—
3900 [1841]	699	1526	727	1601	754	1675	782	1750	809	1824	837	1899	864	1973	927	2015	948	2080	968	2194	988	2307	1008	2421	1029	2534	1057	2648	1069	2761	1090	2875	1110	2988	1130	3102	1150	3215	1171	3329	1191	3442	—	—	—	—
4000 [1888]	713	1609	740	1683	768	1758	795	1832	823	1907	850	1961	878	2056	935	2085	955	2199	975	2312	996	2426	1016	2539	1043	2653	1070	2767	1077	2880	1097	2994	1117	3107	1138	3221	1158	3334	1178	3448	1199	3561	—	—	—	—
4100 [1935]	726	1692	754	1766	781	1841	809	1915	836	1990	864	2064	922	2091	942	2204	963	2318	983	2431	1003	2545	1024	2658	1056	2772	1084	2885	1084	2999	1105	3112	1125	3226	1145	3339	1166	3453	1186	3566	—	—	—	—	—	—
4200 [1982]	740	1774	767	1849	795	1923	822	1998	850	2072	877	2147	930	2209	950	2323	970	2438	990	2550	1011	2663	1031	2777	1070	2890	1097	3004	1092	3117	1112	3231	1133	3345	1153	3458	1173	3572	1193	3685	—	—	—	—	—	—
4300 [2029]	753	1857	781	1932	808	2006	836	2081	853	2155	917	2215	937	2328	957	2442	978	2555	998	2669	1018	2782	1039	2896	1083	3009	1111	3123	1099	3236	1120	3350	1140	3453	1160	3577	1181	3690	—	—	—	—	—	—	—	—
4400 [2077]	767	1940	794	2014	822	2089	849	2163	877	2238	924	2333	945	2447	965	2560	985	2674	1006	2787	1026	2901	1046	3014	1097	3128	1124	3241	1107	3355	1127	3468	1148	3582	1168	3695	1188	3809	—	—	—	—	—	—	—	—
4500 [2124]	780	2023	808	2097	835	2172	863	2248	912	2338	932	2452	952	2585	973	2679	993	2793	1013	2906	1033	3020	1054	3133	1110	3247	1138	3360	1115	3474	1135	3587	1155	3701	1175	3814	1196	3928	—	—	—	—	—	—	—	—
4600 [2171]	794	2105	821	2180	840	2254	876	2329	919	2457	940	2571	960	2684	980	2798	1000	2911	1021	3025	1041	3138	1061	3252	1124	3365	1151	3479	1122	3592	1142	3706	1163	3819	1183	3933	—	—	—	—	—	—	—	—	—	—
4700 [2218]	807	2188	835	2263	862	2337	906	2462	927	2576	947	2689	967	2803	988	2916	1008	3030	1028	3143	1048	3257	1069	3371	1137	3484	1165	3598	1130	3711	1150	3825	1170	3938	1190	4052	—	—	—	—	—	—	—	—	—	—
4800 [2265]	821	2271	848	2345	876	2420	914	2581	934	2695	955	2808	975	2922	995	3035	1015	3149	1036	3262	1056	3376	1076	3489	1151	3603	1178	3716	1137	3830	1157	3943	1178	4057	1198	4170	—	—	—	—	—	—	—	—	—	—

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

Drive Package	L						M					
Motor H.P. [W]	2.0 [1491.4]						3.0 [2237.1]					
Blower Sheave	BK90						BK65					
Motor Sheave	1VP-44						1VP-44					
Turns Open	**1**	2	3	4	5	6	1	2	3	4	5	**6**
RPM	**845**	810	775	739	704	669	1138	1089	1041	992	943	**894**

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 10 TON [35.2 kW] (B120)

ACTUAL—CFM [L/s]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [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.

[ ] Designates Metric Conversions

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

Component	Standard Indoor Airflow—CFM [L/s]								
	3200 [1510]	**3400 [1604]**	**3600 [1699]**	**3800 [1793]**	**4000 [1888]**	**4200 [1982]**	**4400 [2076]**	**4600 [2171]**	**4800 [2265]**
	Resistance—Inches Water [kPa]								
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]	0.105 [0.026]	0.110 [0.027]
Concentric Diffuser RXRN-FA65 or FA75 & Transition RXMC-CD04	0.31 [0.077]	0.37 [0.092]	DNA	DNA	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]	DNA	DNA
Concentric Diffuser RXRN-AA66 or AA76 & Transition RXMC-CF06	DNA	DNA	DNA	DNA	DNA	DNA	DNA	0.31 [0.077]	0.32 [0.080]
Economizer 100% R.A. Damper Open	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]	0.16 [0.040]	0.17 [0.042]
Horizontal Economizer 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]	0.10 [0.024]	0.10 [0.025]
Horizontal Economizer 100% O.A. Damper Open	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]	0.15 [0.0.36]	0.16 [0.040]	0.18 [0.044]	0.19 [0.047]	0.20 [0.50]	0.21 [0.052]

NOTE: Add component resistance to duct resistance to determine total external static pressure.
DNA = Data not Available.

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

Air Flow CFM [L/s]	Model RLKL-B151 Voltage 208/230, 460, 575 — 3 phase 60 Hz External Static Pressure—Inches of Water [kPa]																																			
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
3800 [1793]	—	—	—	—	—	—	828	1605	854	1661	879	1722	904	1786	929	1853	954	1924	979	1998	1004	2075	1028	2156	1052	2241	1076	2328	1099	2420	1123	2514	1146	2613	1169	2714	1192	2819	1215	2928
4000 [1888]	—	—	—	—	830	1735	855	1796	880	1859	905	1927	930	1997	955	2072	979	2149	1004	2230	1028	2315	1052	2403	1075	2494	1099	2589	1122	2687	1145	2789	1168	2894	1190	3002	1213	3114	1235	3230
4200 [1982]	—	—	832	1877	858	1941	883	2008	908	2079	932	2153	957	2230	981	2312	1005	2396	1029	2484	1053	2575	1076	2670	1099	2769	1122	2870	1145	2975	1168	3084	1190	3196	1212	3312	1234	3430	1256	3553
4400 [2076]	836	2029	862	2096	886	2167	911	2241	936	2319	960	2400	984	2485	1008	2573	1031	2664	1055	2759	1078	2858	1101	2959	1124	3065	1146	3173	1169	3285	1191	3401	1213	3520	1235	3642	1256	3768	1278	3897
4600 [2171]	867	2263	891	2337	916	2415	940	2496	964	2581	988	2669	1012	2760	1035	2855	1058	2954	1081	3056	1104	3161	1127	3270	1149	3382	1171	3497	1193	3616	1215	3739	1236	3865	1258	3994	1279	4127	1300	4263
4800 [2265]	897	2518	922	2599	946	2684	970	2772	993	2864	1017	2959	1040	3057	1063	3159	1086	3265	1108	3373	1131	3485	1153	3601	1175	3720	1196	3843	1218	3969	1239	4098	1261	4231	1282	4367	—	—	—	—
5000 [2359]	929	2795	953	2883	976	2975	1000	3070	1023	3168	1046	3270	1069	3375	1091	3484	1114	3597	1136	3712	1158	3831	1179	3954	1201	4080	1222	4209	1244	4342	1264	4479	1285	4618	—	—	—	—	—	—
5200 [2454]	961	3093	984	3188	1007	3286	1030	3388	1053	3494	1076	3603	1098	3715	1120	3831	1142	3950	1164	4072	1186	4199	1207	4328	1228	4461	1249	4597	1270	4737	1290	4880	—	—	—	—	—	—	—	—
5400 [2548]	993	3412	1016	3514	1039	3619	1062	3728	1084	3841	1106	3956	1128	4076	1150	4198	1171	4324	1193	4454	1214	4587	1235	4723	1256	4863	1276	5007	1296	5153	—	—	—	—	—	—	—	—	—	—
5600 [2643]	1026	3752	1049	3861	1071	3974	1093	4089	1115	4209	1137	4331	1159	4458	1180	4587	1201	4720	1222	4857	1243	4997	1263	5140	1284	5287	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5800 [2737]	1060	4114	1082	4230	1104	4349	1126	4472	1147	4598	1169	4728	1190	4861	1211	4997	1232	5137	1252	5281	1272	5428	1292	5578	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	4	**5**	6	1	2	**3**	4	5	6
RPM	1051	1009	966	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 AHRI minimum External Static Pressure.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

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

ACTUAL—CFM [L/s]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]
TOTAL MBH	0.98	0.99	1.00	1.01	1.02	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	1.28
POWER kW	0.99	1.00	1.00	1.00	1.01	1.01	1.02	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	Standard Indoor Airflow—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]
	Resistance—Inches Water [kPa]										
Wet Coil	0.08 [.02]	0.09 [.02]	0.09 [.02]	0.10 [.02]	0.10 [.02]	0.11 [.03]	0.11 [.03]	0.12 [.03]	0.13 [.03]	0.13 [.03]	0.14 [.03]
Downflow Economizer RA Damper Open	0.12 [.03]	0.13 [.03]	0.14 [.03]	0.15 [.04]	0.16 [.04]	0.17 [.04]	0.18 [.04]	0.19 [.05]	0.20 [.05]	0.21 [.05]	0.22 [.05]
Horizontal Economizer RA Damper Open	0.07 [.02]	0.07 [.02]	0.08 [.02]	0.08 [.02]	0.09 [.02]	0.10 [.02]	0.10 [.02]	0.11 [.03]	0.11 [.03]	0.12 [.03]	0.13 [.03]
Concentric Grill RXRN-AA61 or RXRN-AA71 & Transition RXMC-CE05	0.19 [.05]	0.21 [.05]	0.24 [.05]	0.27 [.07]	0.30 [.07]	0.33 [.08]	0.36 [.09]	0.40 [.10]	0.44 [.11]	0.48 [.12]	0.52 [.13]
Concentric Grill RXRN-AA66 or RXRN-AA76 & Transition RXMC-CF06	0.23 [0.6]	0.25 [0.6]	0.27 [0.7]	0.29 [0.7]	0.30 [0.7]	0.32 [0.8]	0.34 [0.8]	0.36 [0.8]	0.38 [0.9]	0.40 [.10]	0.43 [.11]

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

ELECTRICAL DATA – RLKL SERIES

		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	518-632
	Volts	208/230	208/230	208/230	460	460	460	575
	Minimum Circuit Ampacity	40/40	40/40	45/45	20	20	23	15
	Minimum Overcurrent Protection Device Size	50/50	50/50	60/60	25	25	30	20
	Maximum Overcurrent Protection Device Size	60/60	60/60	60/60	30	30	30	20
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	200/240	200/240	200/240	480	480	480	600
	Phase	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	6	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	7.9
	Amps (LRA), Comp. 1	164/164	164/164	164/164	75	75	75	54
	HP, Compressor 2	—	—	—	—	—	—	—
	Amps (RLA), Comp. 2	—	—	—	—	—	—	—
	Amps (LRA), Comp. 2	—	—	—	—	—	—	—
Condenser Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	575
	Phase	1	1	1	1	1	1	1
	HP	1/2	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	1
	Amps (LRA, each)	5.6/5.6	5.6/5.6	5.6/5.6	3.1	3.1	3.1	2.2
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	575
	Phase	3	3	3	3	3	3	3
	HP	2	2	3	2	2	3	2
	Amps (FLA, each)	8/8	8/8	13/13	4	4	7	4
	Amps (LRA, each)	56/56	56/56	74.5/74.5	28	28	38.1	19

ELECTRICAL DATA – RLKL SERIES

		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	518-632
	Volts	575	575	208/230	208/230	460	460	575
	Minimum Circuit Ampacity	15	19	51/51	56/56	28	31	22
	Minimum Overcurrent Protection Device Size	20	25	60/60	70/70	35	35	25
	Maximum Overcurrent Protection Device Size	20	25	80/80	80/80	40	45	30
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	600	600	200/240	200/240	480	480	600
	Phase	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	6	6	10	10	10	10	10
	Amps (RLA), Comp. 1	7.9	7.9	30.1/30.1	30.1/30.1	16.7	16.7	12.2
	Amps (LRA), Comp. 1	54	54	225/225	225/225	114	114	80
	HP, Compressor 2	—	—	—	—	—	—	—
	Amps (RLA), Comp 2	—	—	—	—	—	—	—
	Amps (LLA), Comp 2	—	—	—	—	—	—	—
Condenser Motor	No.	1	1	2	2	2	2	2
	Volts	575	575	208/230	208/230	460	460	575
	Phase	1	1	1	1	1	1	1
	HP	1/2	1/2	1/3	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	1
	Amps (LRA, each)	2.2	2.2	4.7/4.7	4.7/4.7	2.4	2.4	1.5
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	575	575	208/230	208/230	460	460	575
	Phase	3	3	3	3	3	3	3
	HP	2	3	2	3	2	3	2
	Amps (FLA, each)	4	8	8/8	13/13	4	7	4
	Amps (LRA, each)	19	20	56/56	74.5/74.5	28	38.1	19

ELECTRICAL DATA – RLKL SERIES

		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	518-632
	Volts	575	208/230	208/230	460	460	575	575
	Minimum Circuit Ampacity	26	67/67	71/71	33	36	28	28
	Minimum Overcurrent Protection Device Size	30	70/70	75/75	35	40	30	30
	Maximum Overcurrent Protection Device Size	35	80/80	90/90	40	45	35	35
Compressor Motor	No.	1	2	2	2	2	2	2
	Volts	600	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	RPM	3450	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	5 3/4
	Amps (RLA), Comp. 1	12.2	22.4/22.4	22.4/22.4	10.6	10.6	7.7	7.7
	Amps (LRA), Comp. 1	80	149/149	149/149	75	75	54	54
	HP, Compressor 2	—	5 1/4	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	7.4
	Amps (LLA), Comp 2	—	123/123	123/123	62	62	50	50
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	575	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1	1
	HP	1/3	1/2	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	1
	Amps (LRA, each)	1.5	5.6/5.6	5.6/5.6	3.1	3.1	2.2	2.2
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	575	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3	3
	HP	3	3	5	3	5	3	5
	Amps (FLA, each)	8	15/15	18.8/18.8	7	10	8	8
	Amps (LRA, each)	20	74.5/74.5	82.6/82.6	38.1	41.3	20	33

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				
	Heater Kit					Air Conditioner		Heater Kit		Air Conditioner		
Unit Model No. RLKL-	RXJJ- Heater Kit Nominal kW	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	Over Current Protective Device Size		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				Min./Max. @ 208 V	Min./Max. @ 240 V
B090CL	No Heat	—	—	—	—	40/40	50/60	50/60	—	—	40/40	50/60	50/60
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	40/40	50/60	50/60	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	48/54	50/60	60/60	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	60/68	60/60	70/70	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	—	—	—
	CC31C	1	21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	—	—	—
	CC41C	1	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	—	—	—
B120CL	No Heat	—	—	—	—	51/51	60/80	60/80	—	—	51/51	60/80	60/80
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	51/51	60/80	60/80	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	51/54	60/80	60/80	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	60/68	60/80	70/80	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	—	—	—
	CC50C	1	36.1/48	123.16/163.75	100.1/115.5	136/155	150/150	175/175	126/145	150/150	—	—	—
B151CL	No Heat	—	—	—	—	67/67	70/80	70/80	—	—	67/67	70/80	70/80
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	67/67	80/80	80/80	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	67/67	80/80	80/80	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	69/77	80/80	80/80	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	94/106	100/100	110/110	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	119/135	125/125	150/150	101/116	110/125	—	—	—
	CC50C	1	36.1/48	123.16/163.75	100.1/115.5	144/164	150/150	175/175	126/145	150/150	—	—	—
B090CM	No Heat	—	—	—	—	40/40	50/60	50/60	—	—	40/40	50/60	50/60
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	40/40	50/60	50/60	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	48/54	50/60	60/60	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	60/68	60/60	70/70	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	—	—	—
	CC31C	1	21.6/28.8	73.69/98.25	60/69.3	85/97	90/90	100/100	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	—	—	—
	CC41C	1	28.8/38.4	98.25/131	80.1/92.4	111/126	125/125	150/150	101/116	110/125	—	—	—
B120CM	No Heat	—	—	—	—	56/56	70/80	70/80	—	—	56/56	70/80	70/80
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	56/56	70/80	70/80	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	56/60	70/80	70/80	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	67/75	70/80	80/80	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	117/132	125/125	150/150	101/116	110/125	—	—	—
	CC50C	1	36.1/48	123.16/163.75	100.1/115.5	142/161	150/150	175/175	126/145	150/150	—	—	—

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

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

Single Power Supply For Both Unit and Heater Kit								Separate Power Supply For Both Unit and Heater Kit				
Unit Model No. RLKL-	Heater Kit					Air Conditioner		Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	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	Over Current Protective Device Size		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				Min./Max. @ 208 V	Min./Max. @ 240 V
C151CM	No Heat	—	—	—	—	71/71	75/90	75/90	—	—	71/71	75/90	75/90
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	71/71	80/90	80/90	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	71/71	80/90	80/90	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	74/82	80/90	90/90	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	99/111	100/100	125/125	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	124/140	125/125	150/150	101/116	110/125	-----	-----	-----
	CC50C	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	60/60	—	—	45/45	60/60	60/60
	CC10C	1	7.2/9.6	24.56/32.75	20/23.1	45/46	60/60	60/60	25/29	25/30	—	—	—
	CC15C	1	10.8/14.4	36.84/49.13	30/34.6	54/60	60/60	60/60	38/44	40/45	—	—	—
	CC20C	1	14.4/19.2	49.13/65.5	40/46.2	67/75	70/70	80/80	50/58	50/60	—	—	—
	CC30C	1	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	80/90	—	—	—
	CC31C	1	21.6/28.8	73.69/98.25	60/69.3	92/103	100/100	110/110	75/87	80/90	—	—	—
	CC40C	1	28.8/38.4	98.25/131	80.1/92.4	117/132	125/125	150/150	101/116	110/125	—	—	—
	CC41C	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-	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner	
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size		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				Min./Max. @ 480 V	Min./Max. @ 480 V
B090DL	No Heat	—	—	—	—	20	25/30	—	—	—	20	25/30	—
	CC10D	1	9.6	32.75	11.5	20	25/30	—	15	15	—	—	—
	CC15D	1	14.4	49.13	17.3	27	30/30	—	22	25	—	—	—
	CC20D	1	19.2	65.5	23.1	34	35/35	—	29	30	—	—	—
	CC30D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—
	CC31D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—
	CC40D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—
	CC41D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—
B120DL	No Heat	—	—	—	—	28	35/40	—	—	—	28	35/40	—
	CC10D	1	9.6	32.75	11.5	28	35/40	—	15	15	—	—	—
	CC15D	1	14.4	49.13	17.3	28	35/40	—	22	25	—	—	—
	CC20D	1	19.2	65.5	23.1	34	35/40	—	29	30	—	—	—
	CC30D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—
	CC40D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—
	CC50D	1	48	163.75	57.7	78	80/80	—	73	80	—	—	—
B151DL	No Heat	—	—	—	—	33	35/40	—	—	—	33	35/40	—
	CC10D	1	9.6	32.75	11.5	33	40/40	—	15	15	—	—	—
	CC15D	1	14.4	49.13	17.3	33	40/40	—	22	25	—	—	—
	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	—	—	—
	CC40D	1	38.4	131	46.2	67	70/70	—	58	60	—	—	—
	CC50D	1	48	163.75	57.7	81	90/90	—	73	80	—	—	—
B090DM	No Heat	—	—	—	—	20	25/30	—	—	—	20	25/30	—
	CC10D	1	9.6	32.75	11.5	20	25/30	—	15	15	—	—	—
	CC15D	1	14.4	49.13	17.3	27	30/30	—	22	25	—	—	—
	CC20D	1	19.2	65.5	23.1	34	35/35	—	29	30	—	—	—
	CC30D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—
	CC31D	1	28.8	98.25	34.6	49	50/50	—	44	45	—	—	—
	CC40D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—
	CC41D	1	38.4	131	46.2	63	70/70	—	58	60	—	—	—
B120DM	No Heat	—	—	—	—	31	35/45	—	—	—	31	35/45	—
	CC10D	1	9.6	32.75	11.5	31	35/45	—	15	15	—	—	—
	CC15D	1	14.4	49.13	17.3	31	35/45	—	22	25	—	—	—
	CC20D	1	19.2	65.5	23.1	38	40/45	—	29	30	—	—	—
	CC30D	1	28.8	98.25	34.6	52	60/60	—	44	45	—	—	—
	CC40D	1	38.4	131	46.2	67	70/70	—	58	60	—	—	—
	CC50D	1	48	163.75	57.7	81	90/90	—	73	80	—	—	—

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

Single Power Supply For Both Unit and Heater Kit								Separate Power Supply For Both Unit and Heater Kit			
Unit Model No. RLKL-	Heater Kit				Air Conditioner			Heater Kit		Air Conditioner	
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 600 V	Heater KBTU/Hr @ 600 V	Heater Amp. @ 600 V	Unit Min. Ckt. Ampacity @ 600 V	Over Current Protective Device Size		Min. Ckt. Ampacity 600 V	Max. Fuse Size 600 V	Min. Circuit Ampacity 600 V	Over Current Protective Device Size	
							Min./Max. @ 600 V	Min./Max. @ 600 V				Min./Max. @ 600 V	Min./Max. @ 600 V
B090YL	No Heat	—	—	—	—	15	20/20	—	—	—	15	20/20	—
	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	—	—	—
B120YL	No Heat	—	—	—	—	22	25/30	—	—	—	22	25/30	—
	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	—	—	—
B151YL	No Heat	—	—	—	—	28	30/35	—	—	—	28	30/35	—
	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	—	—	—
B090YM	No Heat	—	—	—	—	15	20/20	—	—	—	15	20/20	—
	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	—	—	—
B120YM	No Heat	—	—	—	—	26	30/35	—	—	—	26	30/35	—
	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	—	—	—

*= 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. RLKL-	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 600 V	Heater KBTU/Hr @ 600 V	Heater Amp. @ 600 V	Unit Min. Ckt. Ampacity @ 600 V	Over Current Protective Device Size		Min. Ckt. Ampacity 600 V	Max. Fuse Size 600 V	Min. Circuit Ampacity 600 V	Over Current Protective Device Size	
							Min./Max. @ 600 V	Min./Max. @ 600 V				Min./Max. @ 600 V	Min./Max. @ 600 V
B151YM	No Heat	—	—	—	—	28	30/35	—	—	—	28	30/35	—
	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	—	—	—
B090YN	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	—	—	—
	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

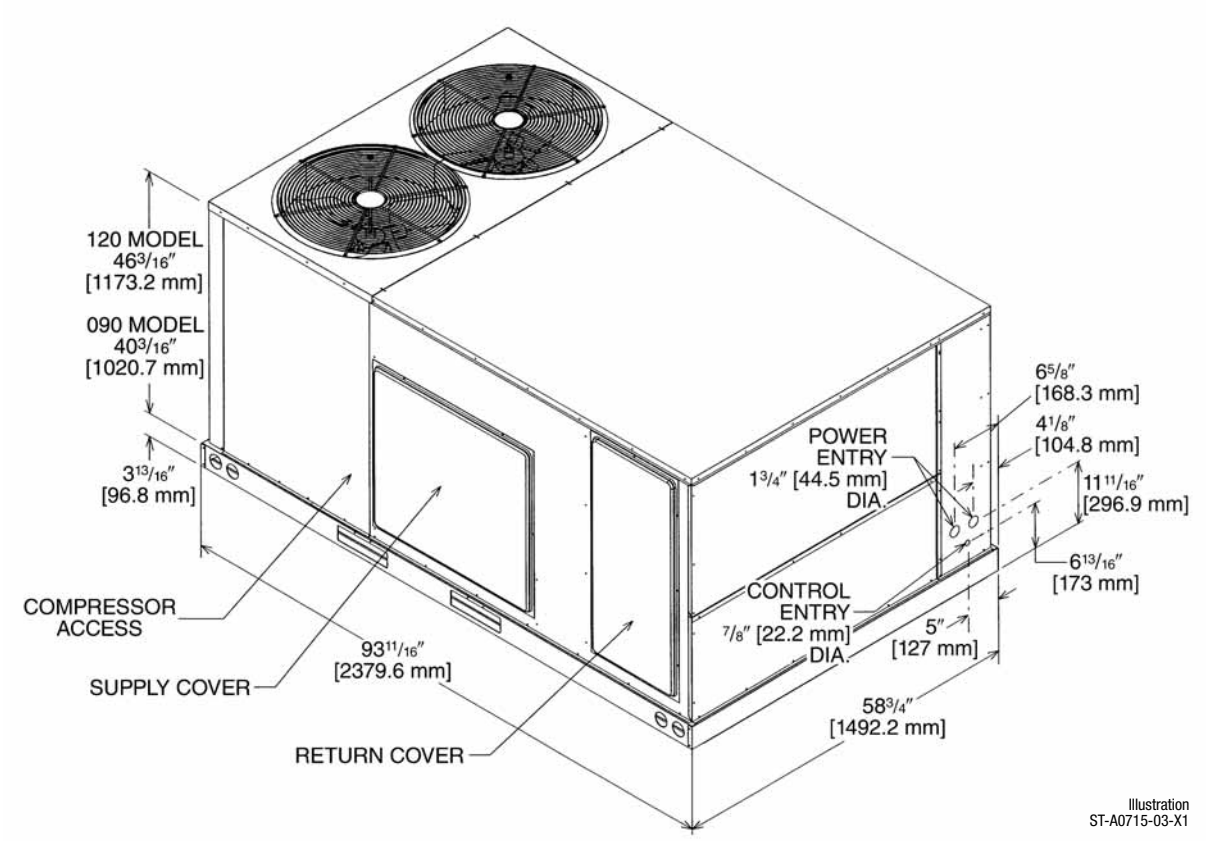


Illustration
ST-A0715-03-X1

BOTTOM VIEW

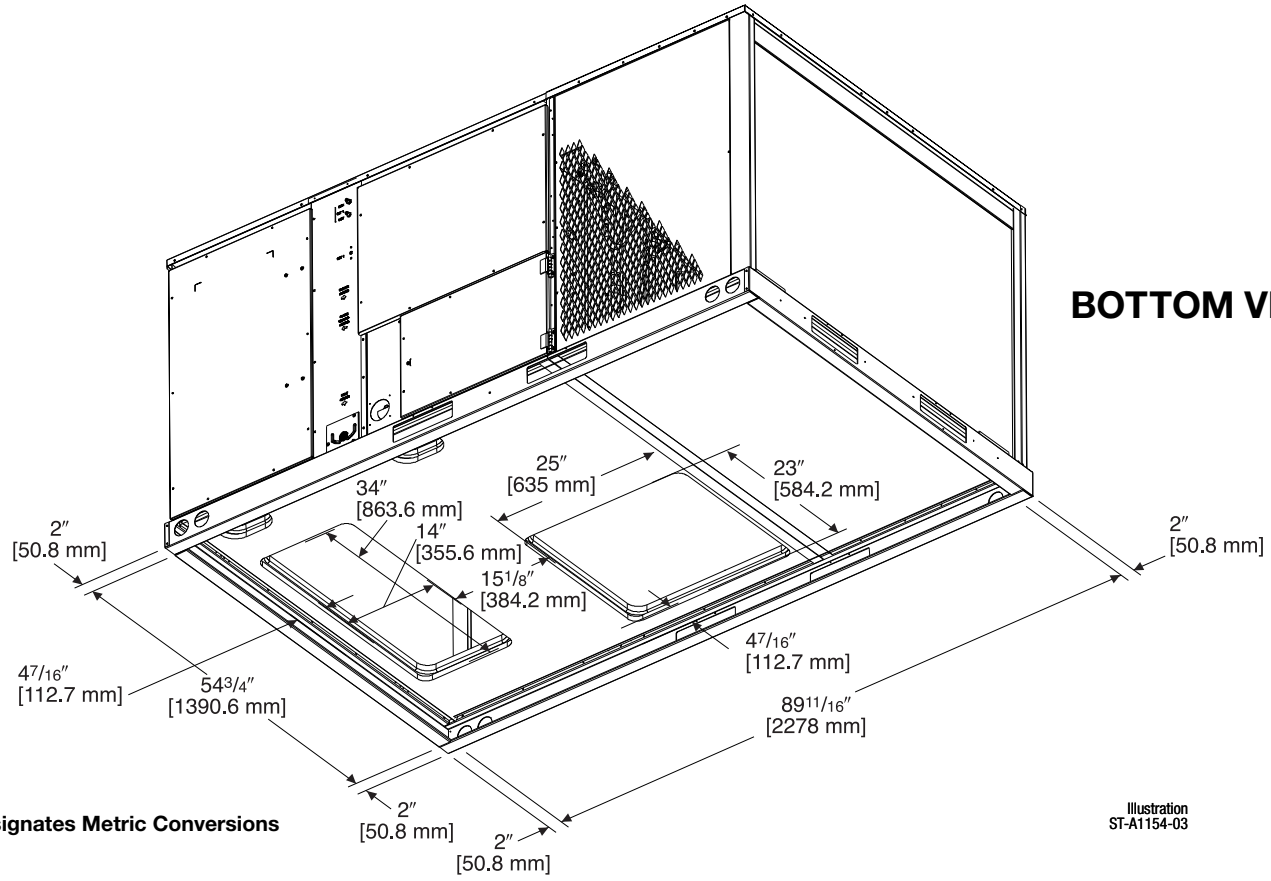


Illustration
ST-A1154-03

[ ] Designates Metric Conversions

PACKAGE AIR CONDITIONER

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

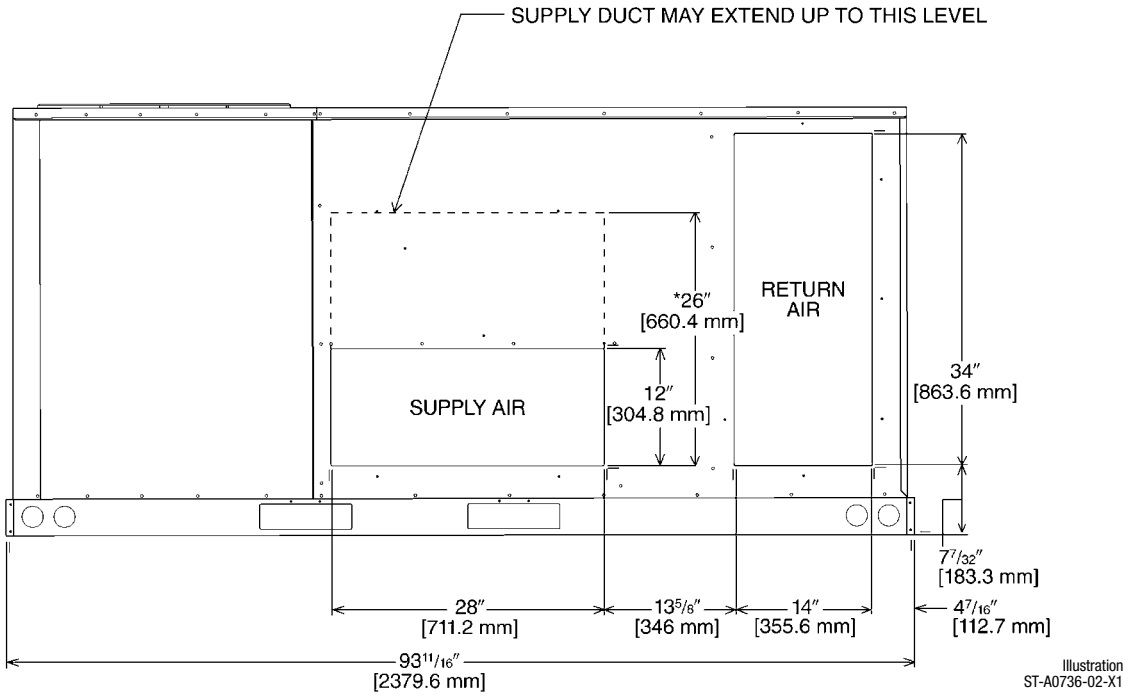


Illustration
ST-A0736-02-X1

***RECOMMENDED DUCT DIMENSIONS ARE 26"**

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS

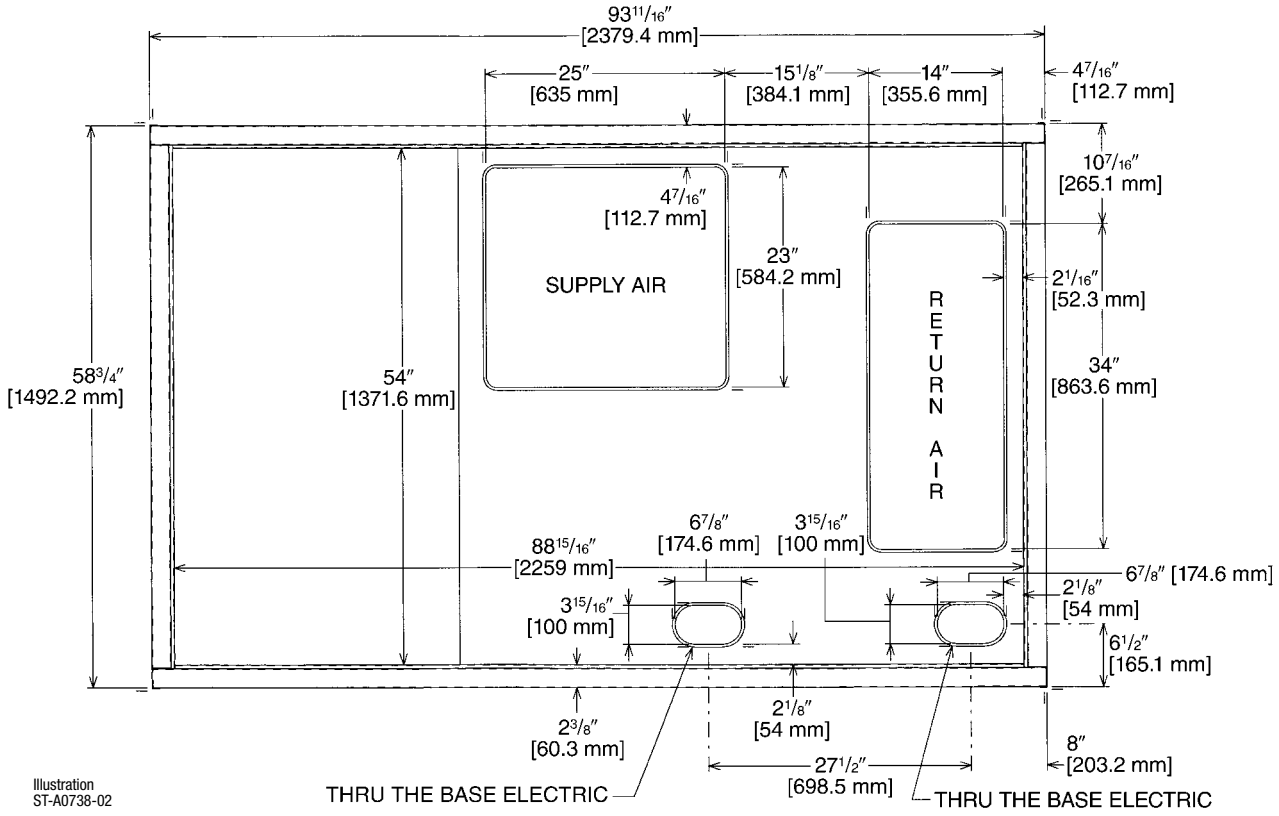
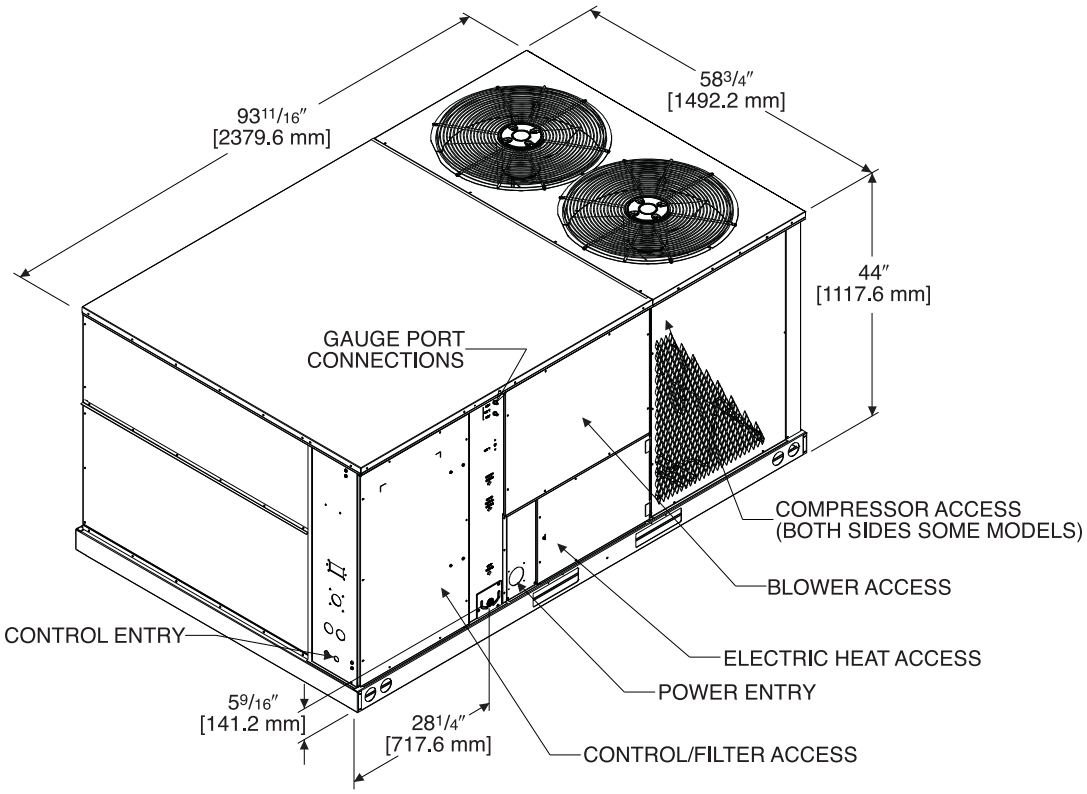


Illustration
ST-A0738-02

[ ] 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%

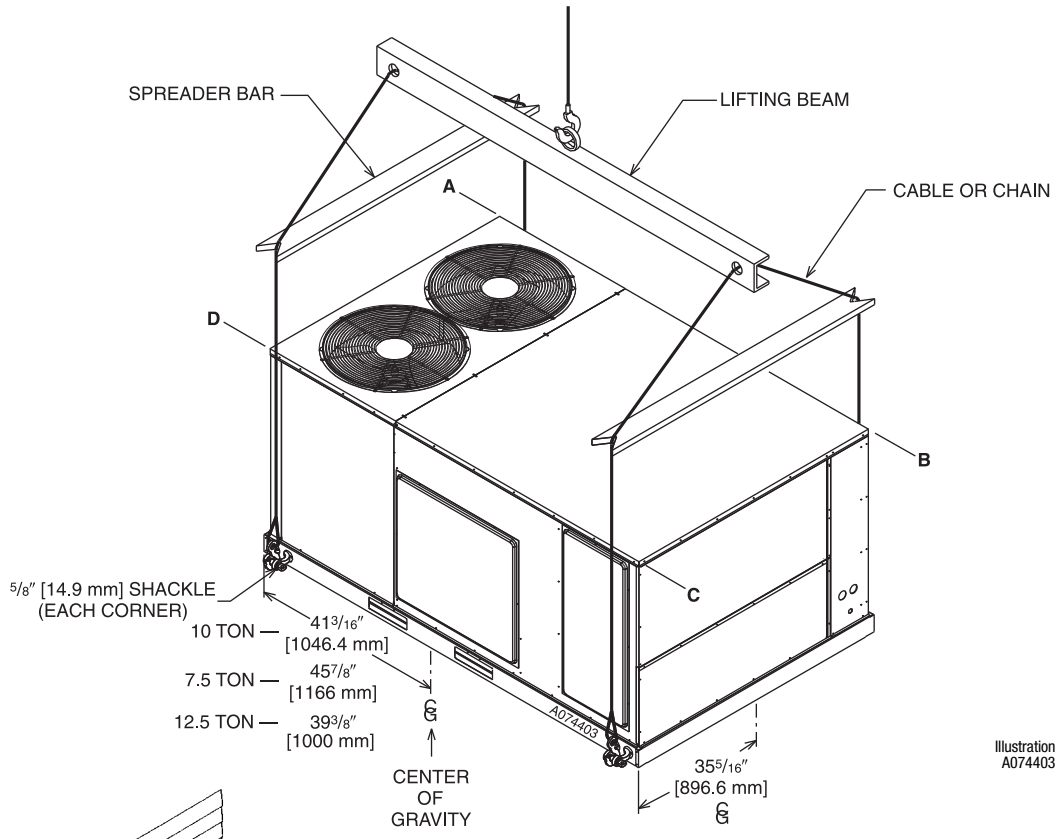
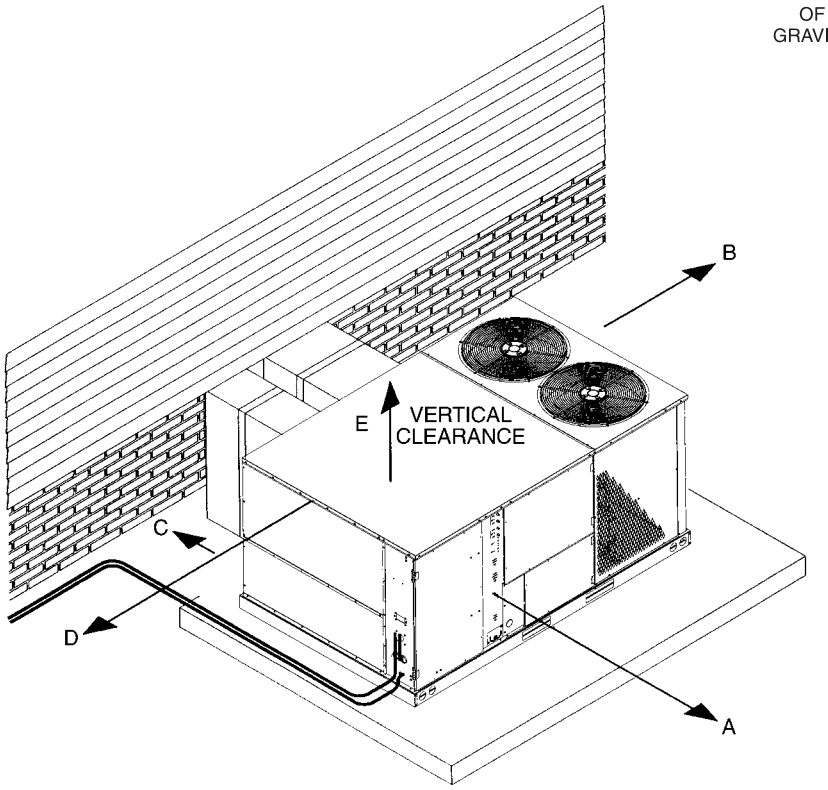


Illustration A074403



CLEARANCES

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

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

[ ] Designates Metric Conversions

FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Thermostats	See Thermostat Specification Sheet for Details (T22-001)			No
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

THERMOSTATS

200-Series *
Programmable

300-Series *
Deluxe
Programmable

400-Series *
Special Applications/
Programmable

500-Series *
Communicating/
Programmable

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

** Photos are representative. Actual models may vary.*

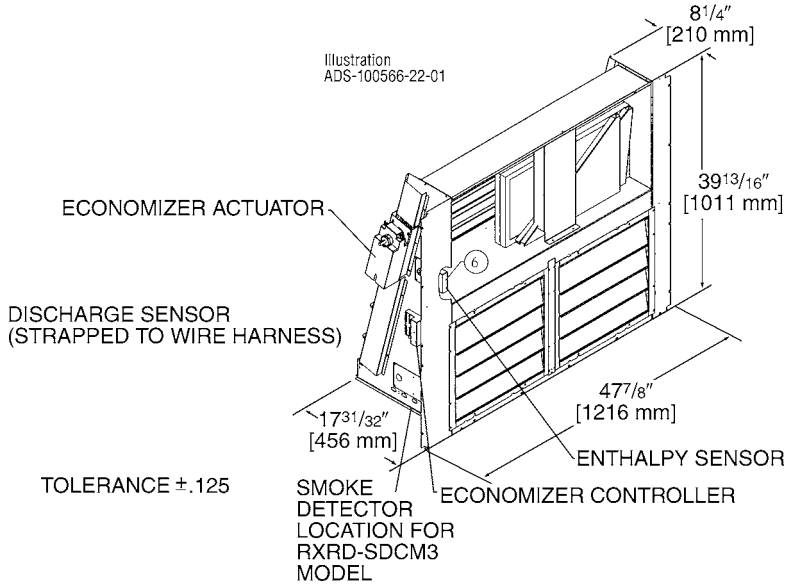
For detailed thermostat match-up information, see specification sheet form number T22-001.

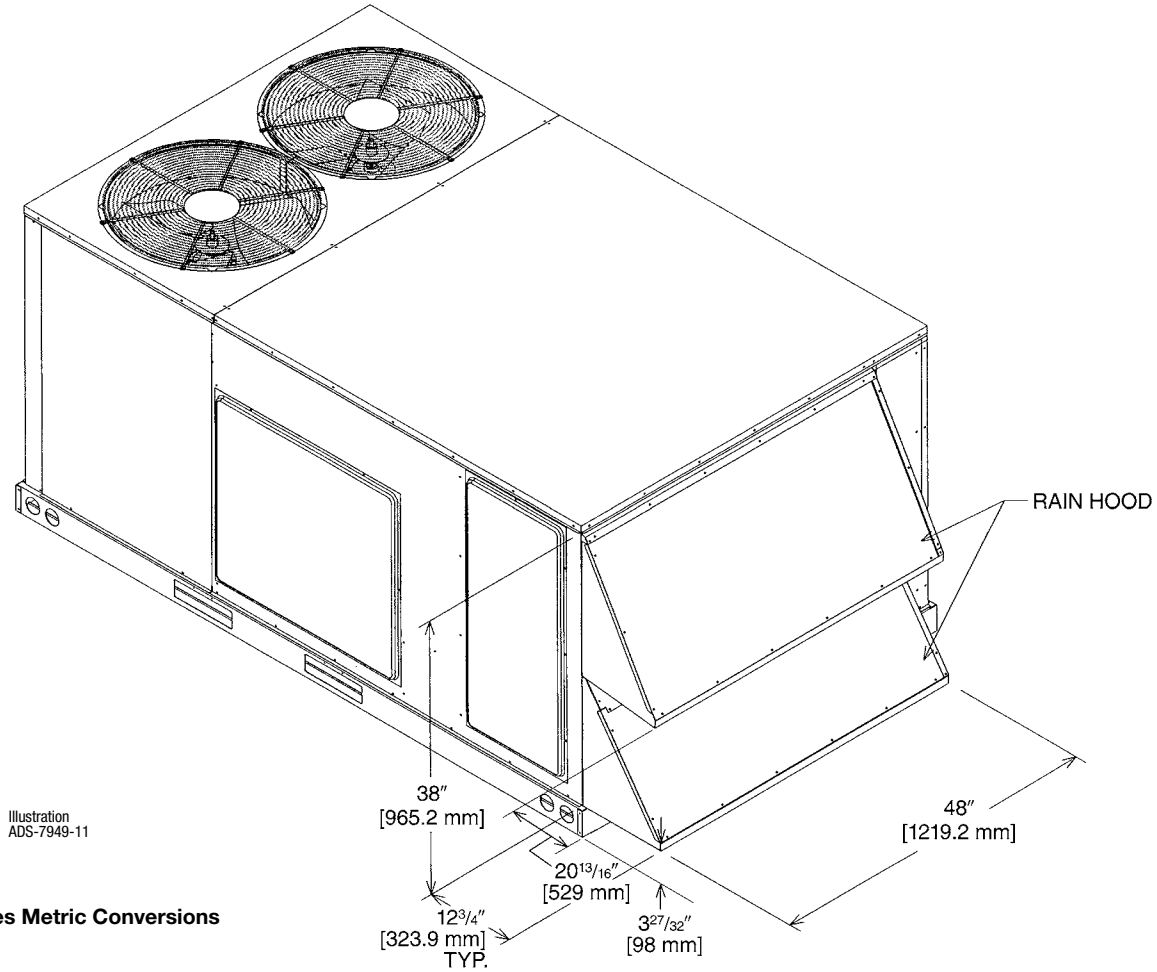
ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

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 CO_2 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
- CO_2 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





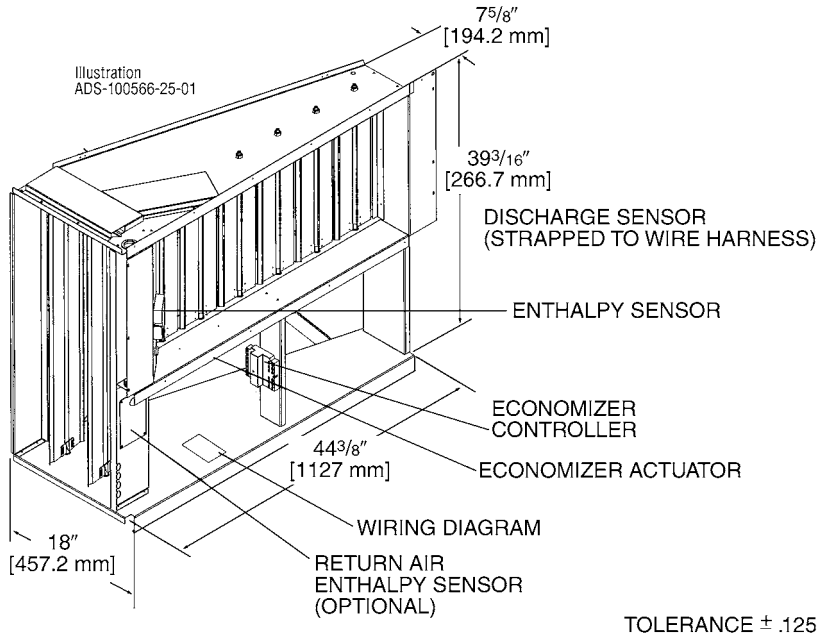
[ ] Designates Metric Conversions

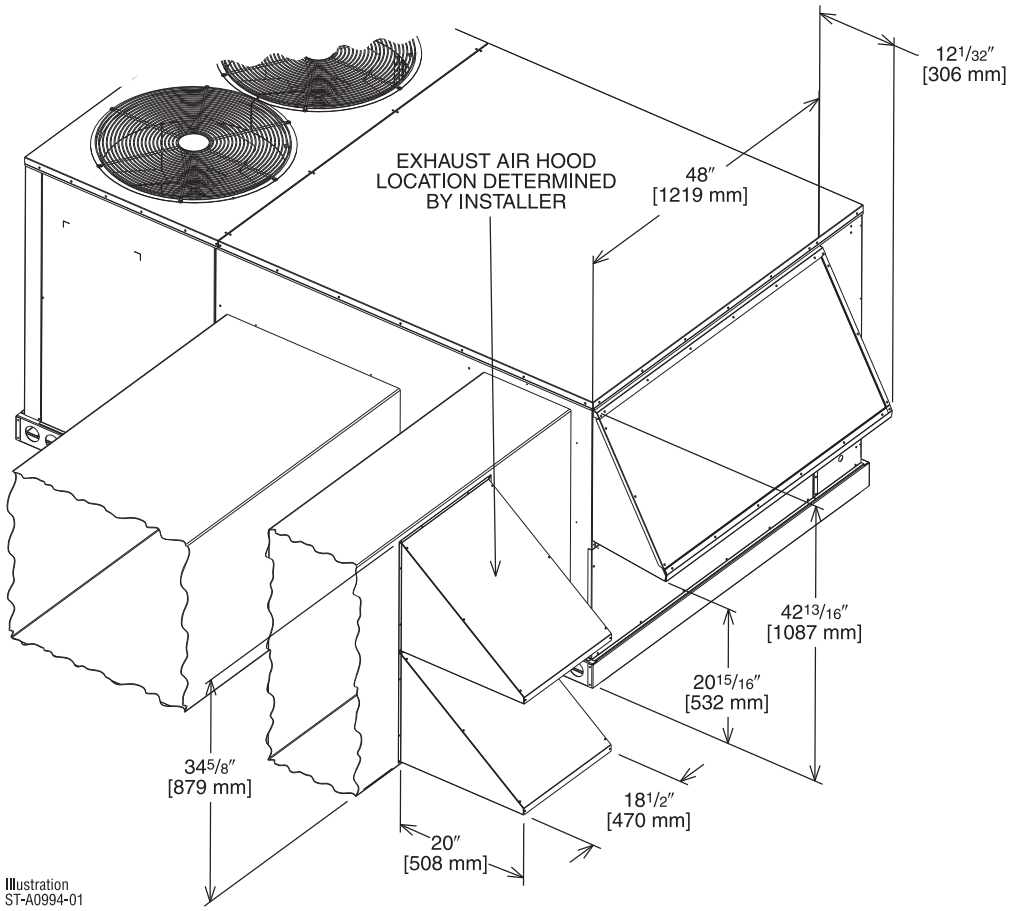
ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

Field Installed Only

AXRD-RDCM3—Single Enthalpy (Outdoor)
RXRX-AV02—Dual Enthalpy Upgrade Kit
RXRX-AR02—Wall-mounted CO_2 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
- CO_2 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

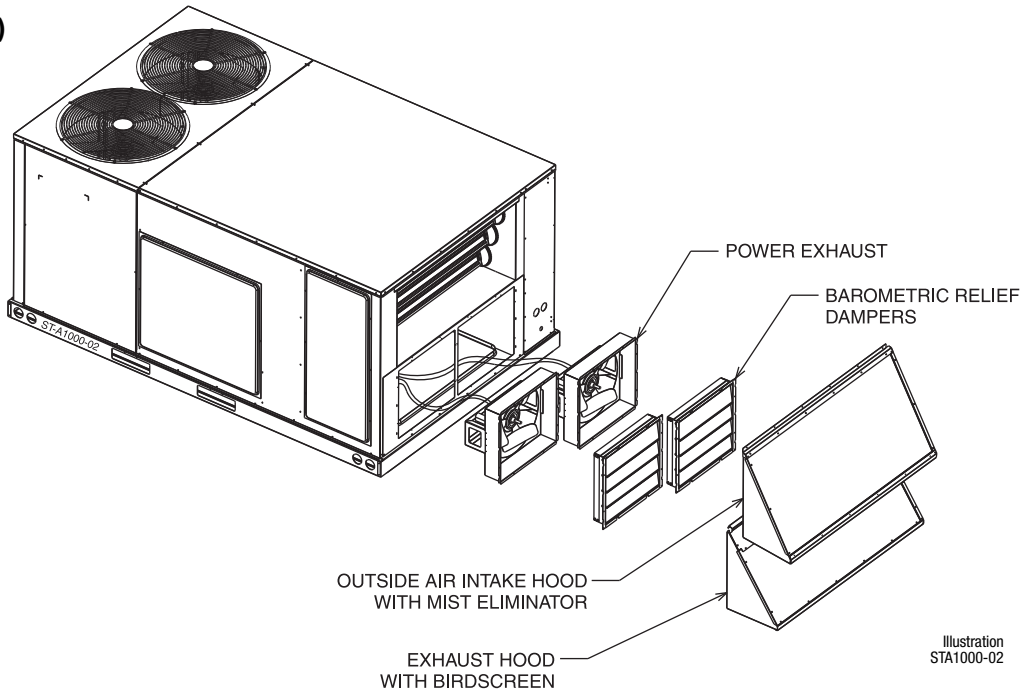
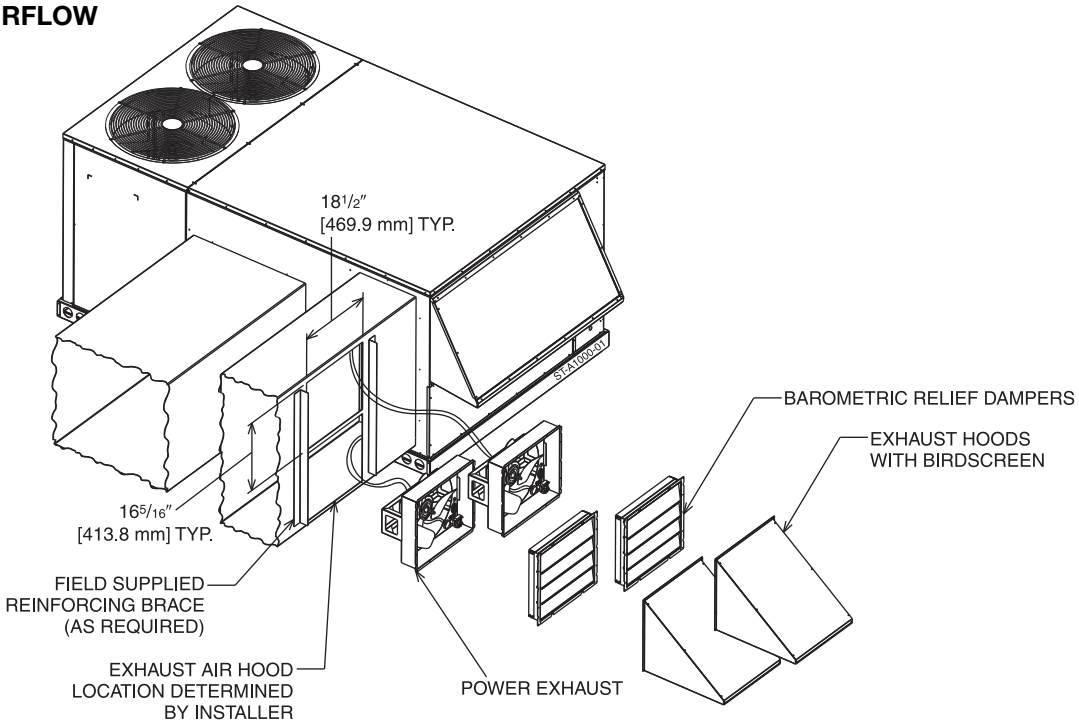


Illustration STA1000-02

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)

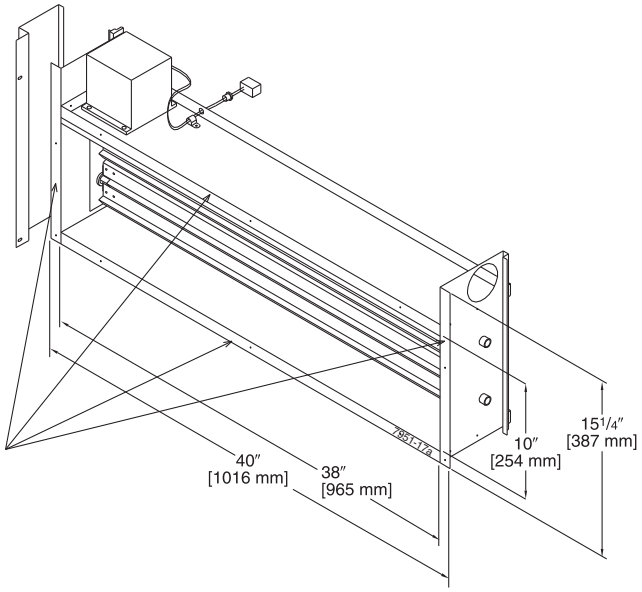


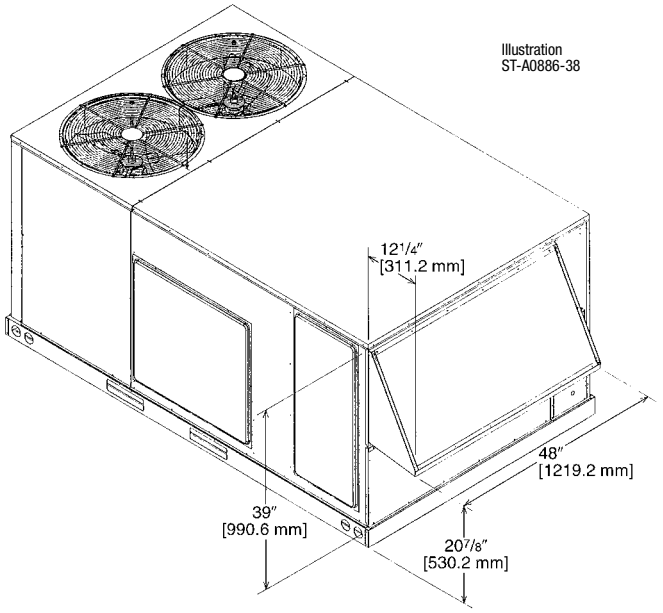
Illustration
ST-7951-17

[ ] Designates Metric Conversions

AXRF-KDA1 (Manual)

DOWNFLOW OR HORIZONTAL APPLICATION

Illustration
ST-A0886-38



FRESH AIR DAMPER (Cont.)

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

DOWNFLOW APPLICATION

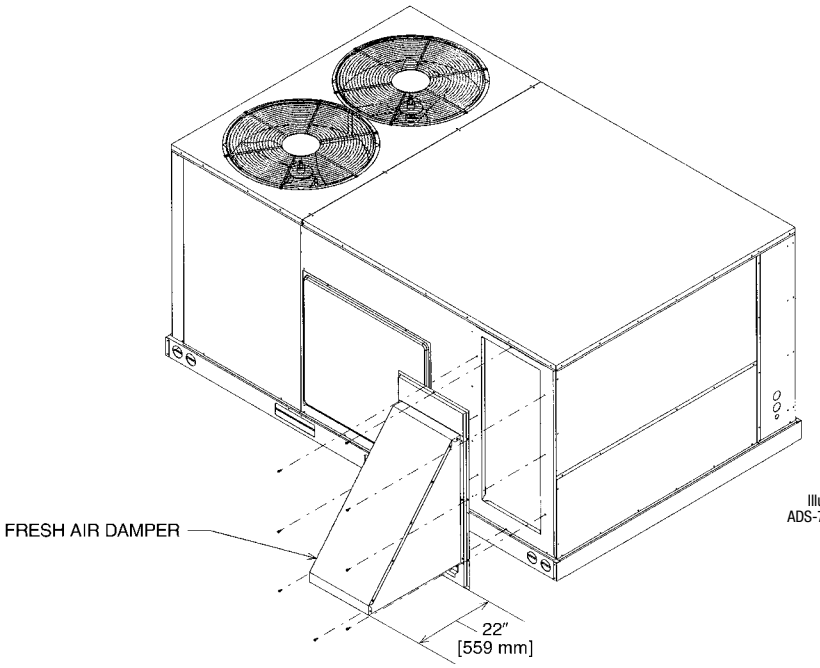
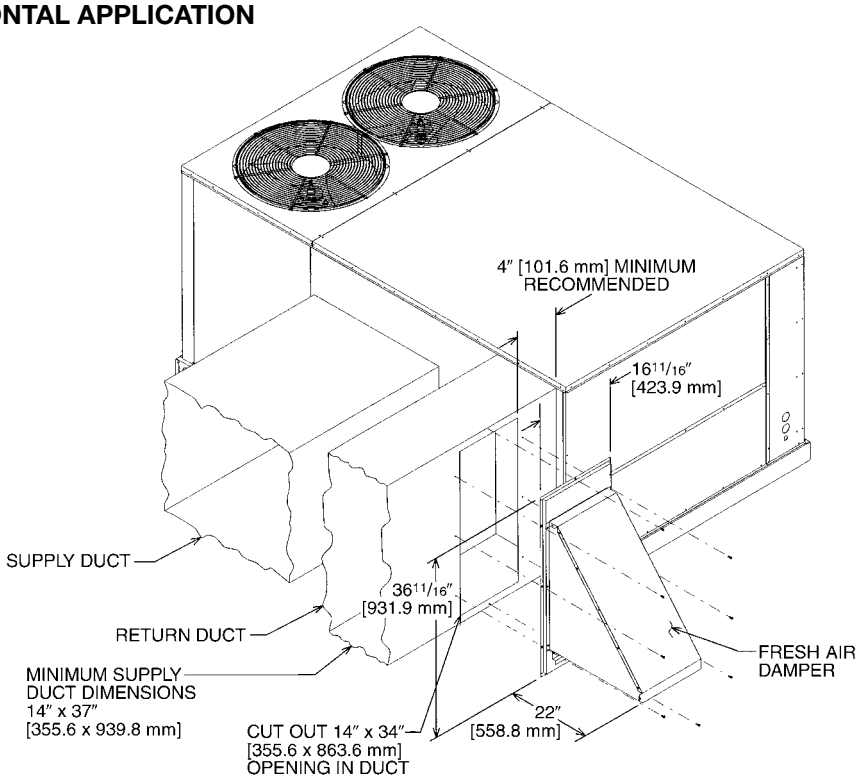


Illustration
ADS-7937-58

HORIZONTAL APPLICATION

Illustration
ST-A0901-01



[ ] Designates Metric Conversions

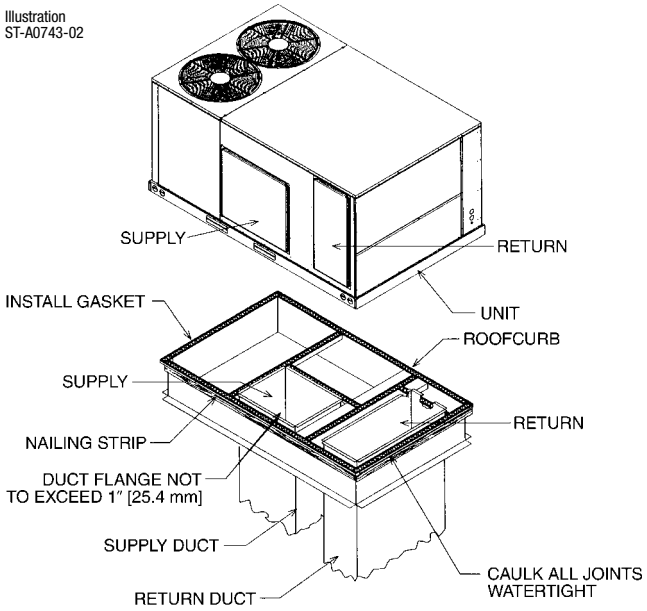
ROOFCURBS (Full Perimeter)

- Ruud'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

Illustration
ST-A0743-02



ROOFCURB INSTALLATION

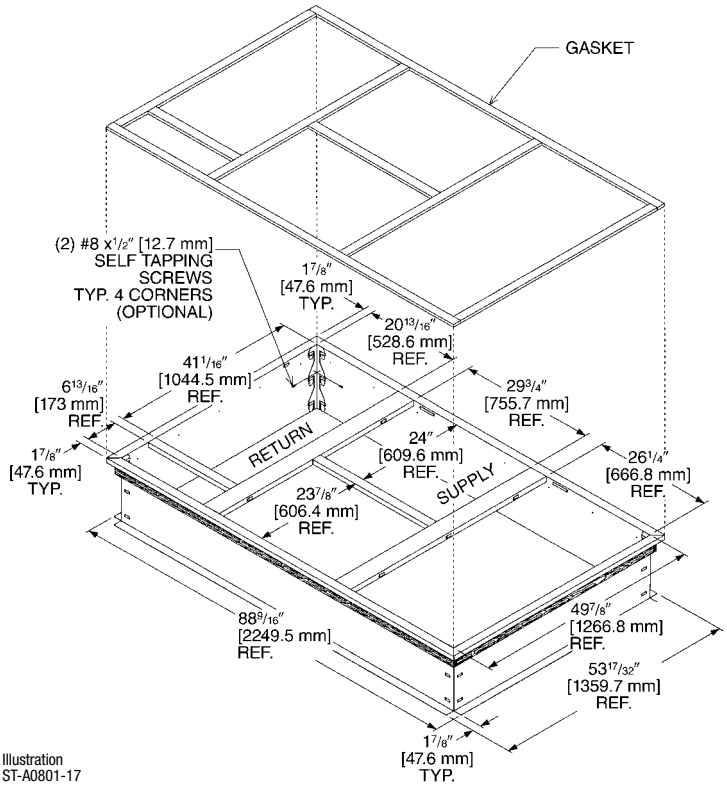
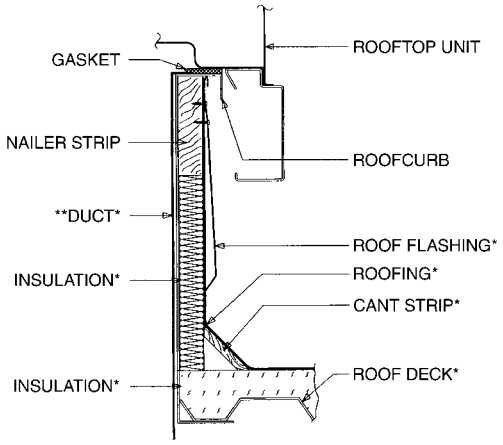


Illustration
ST-A0801-17



*BY CONTRACTOR

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

Illustration
ST-A0743-02

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS

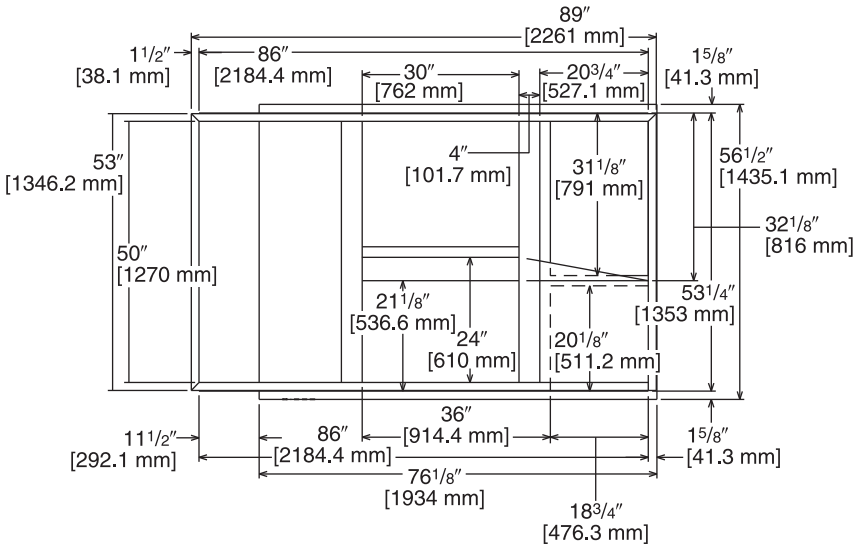
OLD MODELS	OLD ROOFCURB	ROOFCURB ADAPTER	NEW MODELS (All Share Common Cabinet)
(-)RCF, (-)REF-075/076 (-)RGF-150075, (-)RGF-131076 (-)RGF-201076	RXRK-E50	RXRX-CDCE50	(R)LKL-B090 (R)LKL-B120 (R)LKL-B151
(-)RGF-200075 (-)RGG, (-)REG, (-)RCG-075 (-)RGF, (-)REF, (-)RCF-085 (-)RGF, (-)REF, (-)RCF-100 (-)RGG,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

Illustration
ADS-7952-02
Sheet 2



TOP VIEW

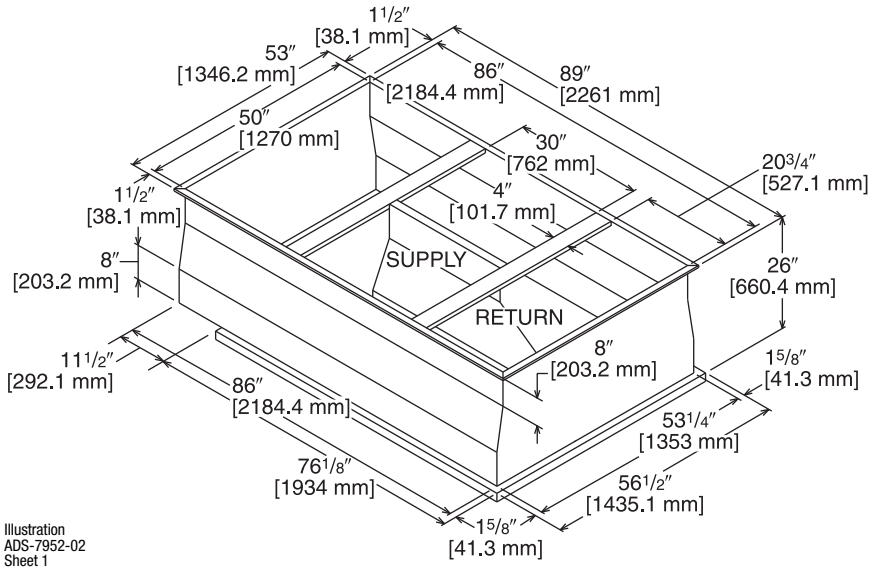


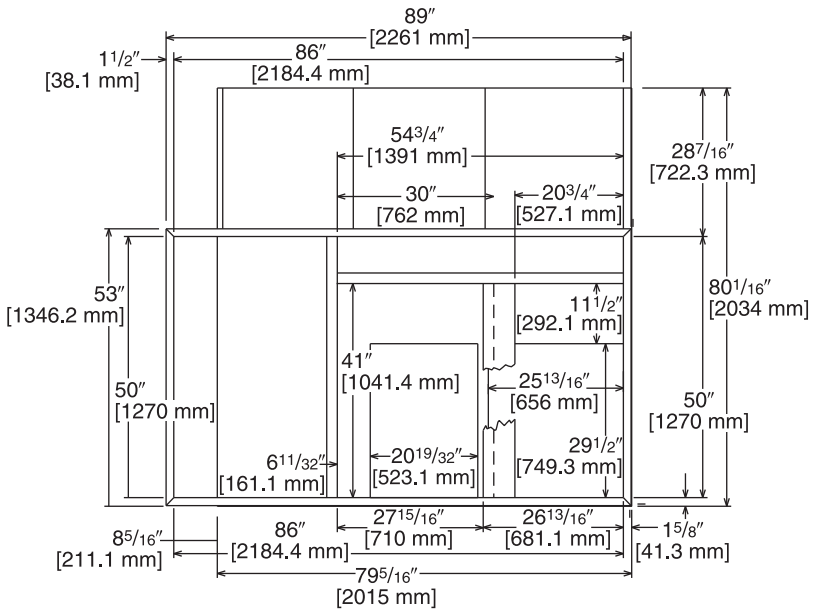
Illustration
ADS-7952-02
Sheet 1

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

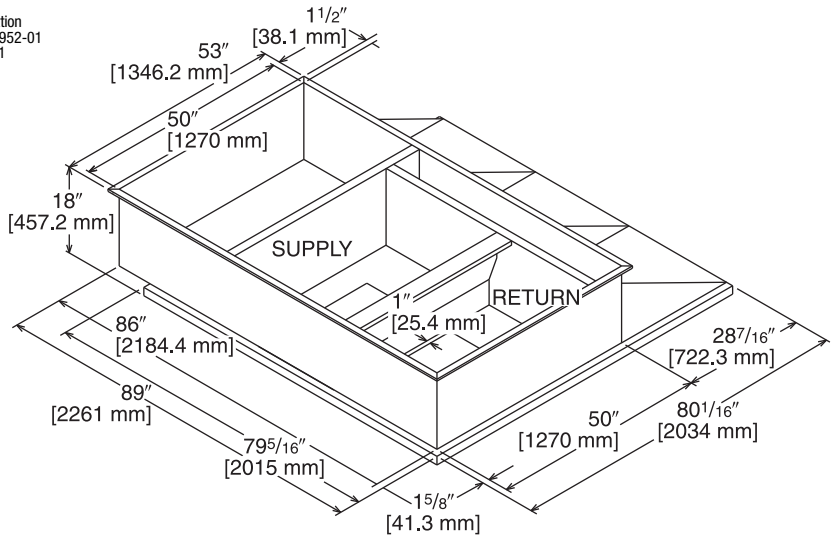
RXRX-CFCE54

Illustration
ADS-7952-01
Sheet 2



TOP VIEW

Illustration
ADS-7952-01
Sheet 1

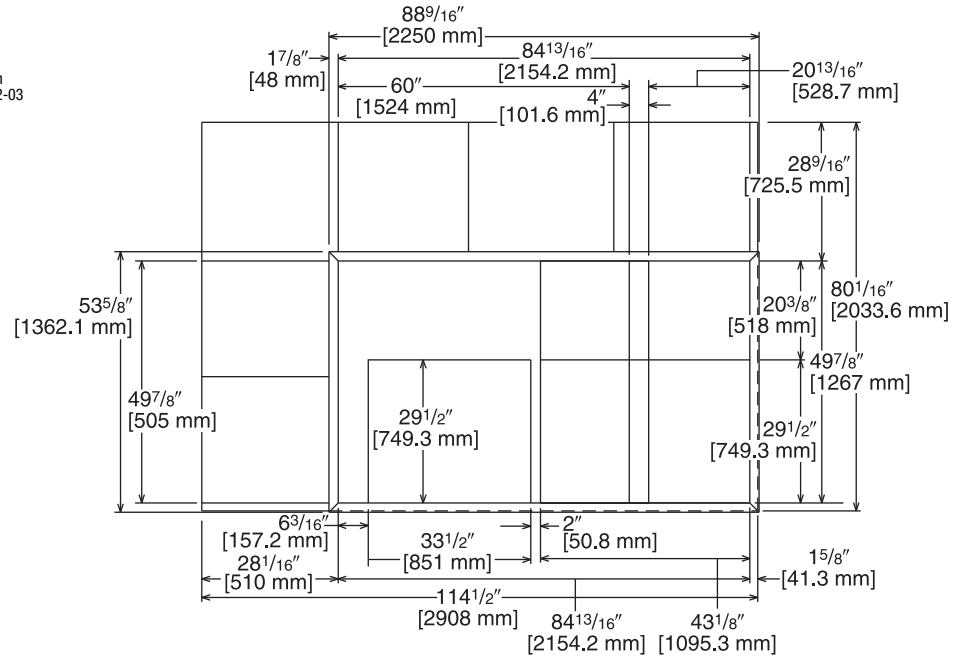


[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

RXRX-CFCE56

Illustration
ADS-7952-03
Sheet 2



TOP VIEW

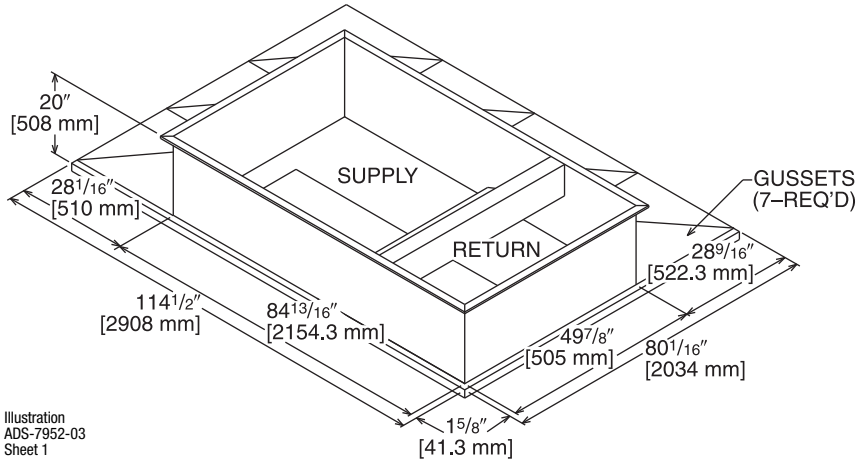


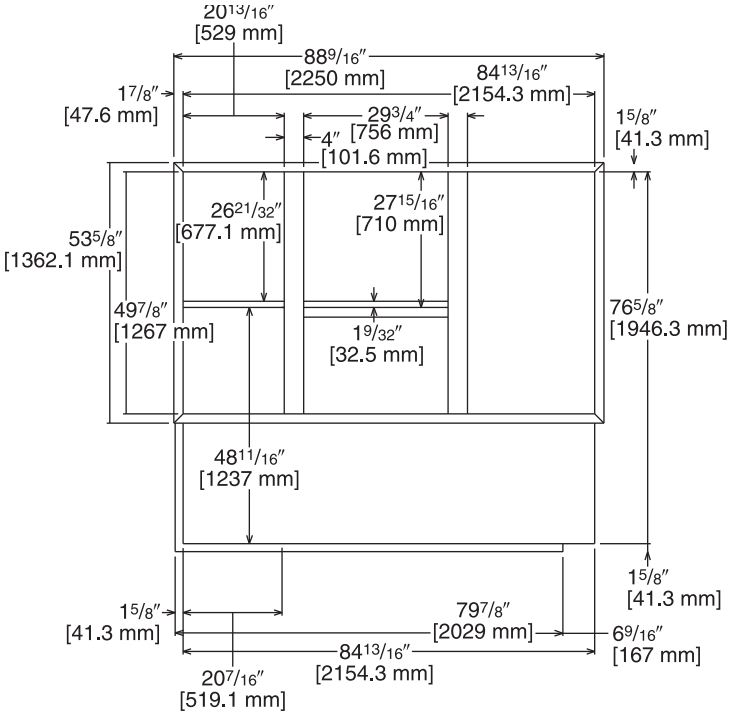
Illustration
ADS-7952-03
Sheet 1

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

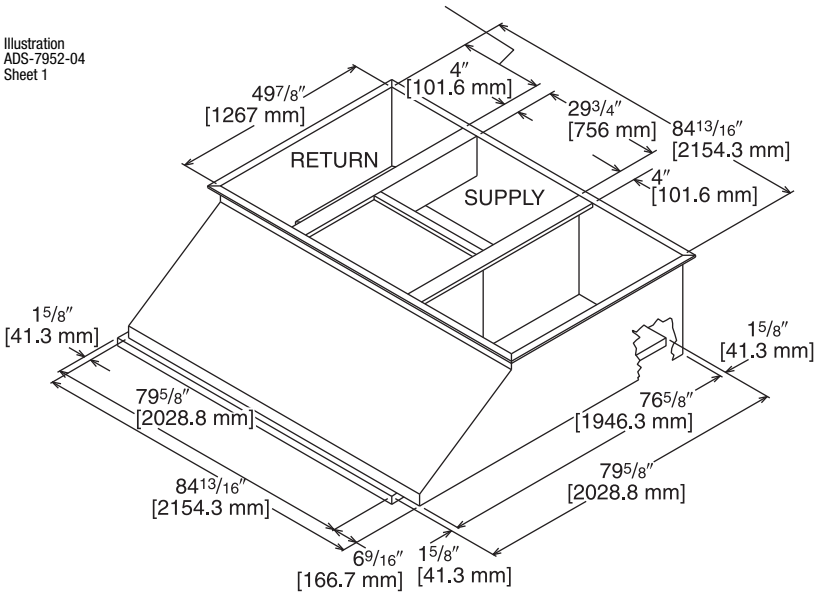
RXRX-CGCC12

Illustration
ADS-7952-04
Sheet 2



TOP VIEW

Illustration
ADS-7952-04
Sheet 1



[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER APPLICATION

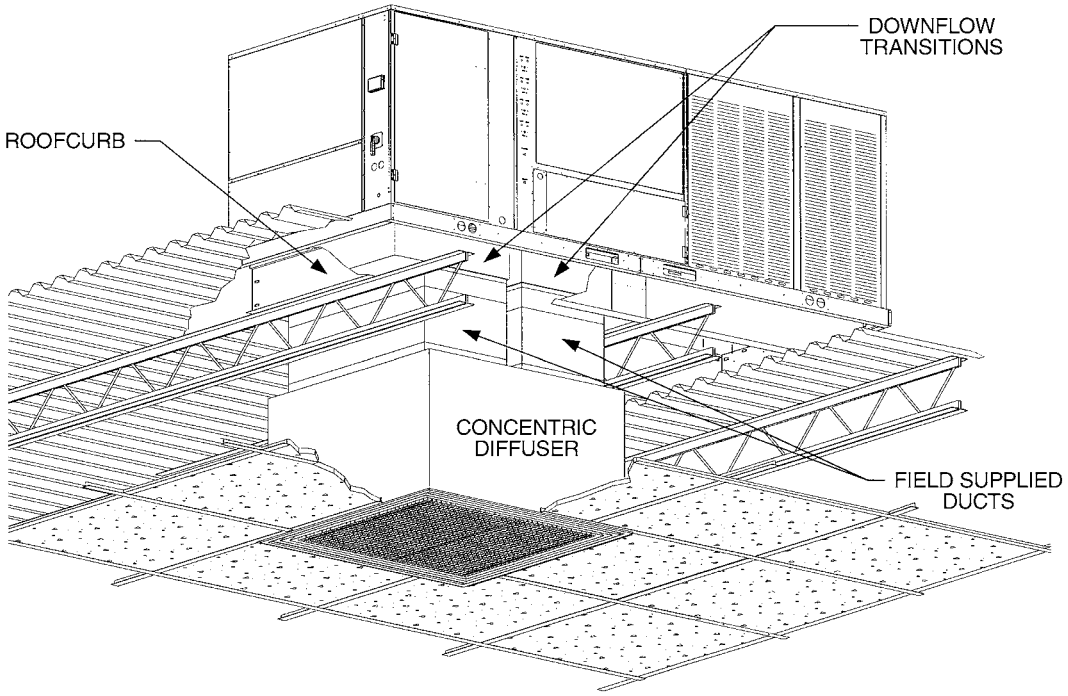


Illustration
ST-A0840-02

DOWNFLOW TRANSITION DRAWINGS

RXMC-CE05

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

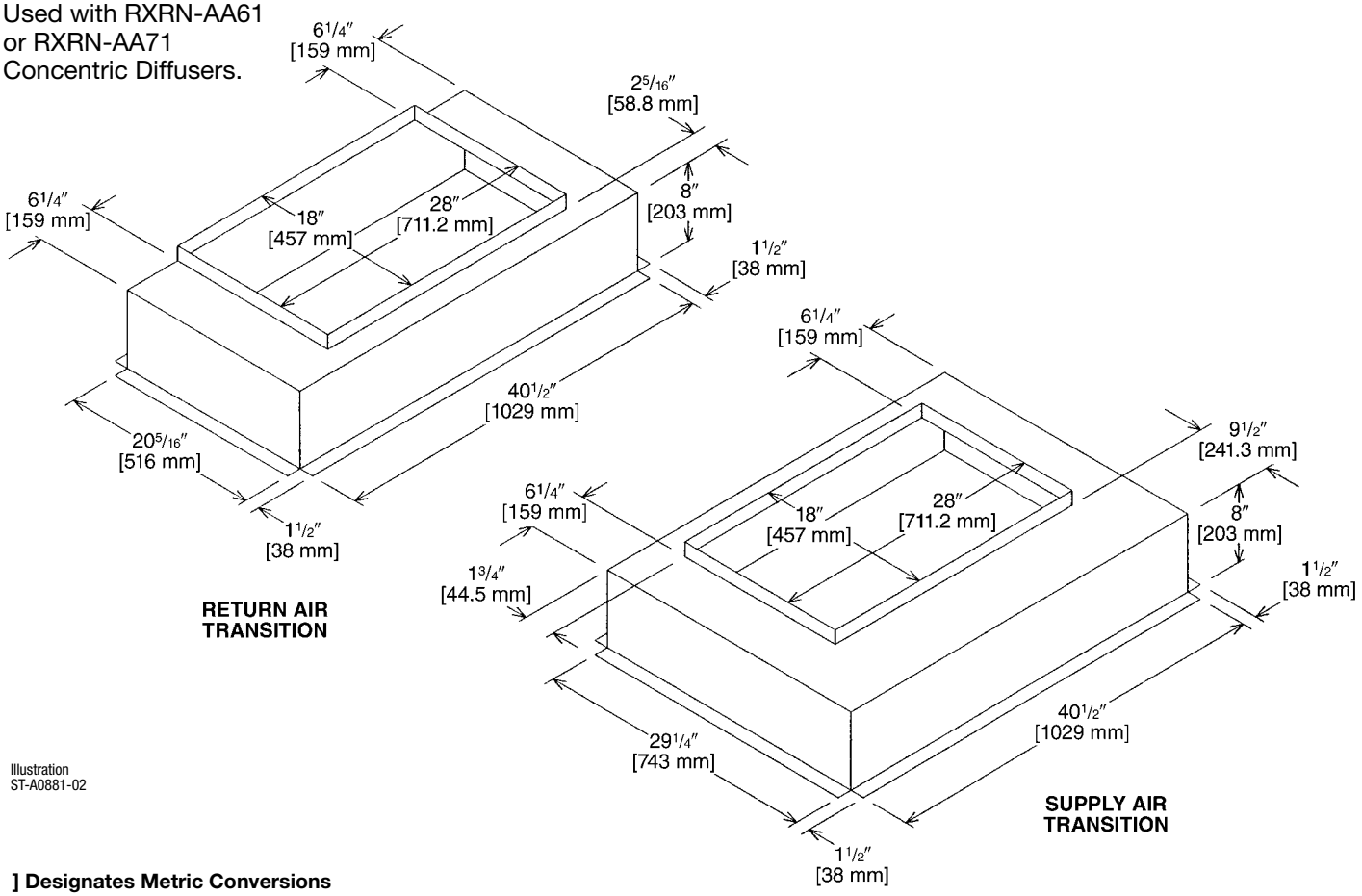


Illustration
ST-A0881-02

[ ] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CF06

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

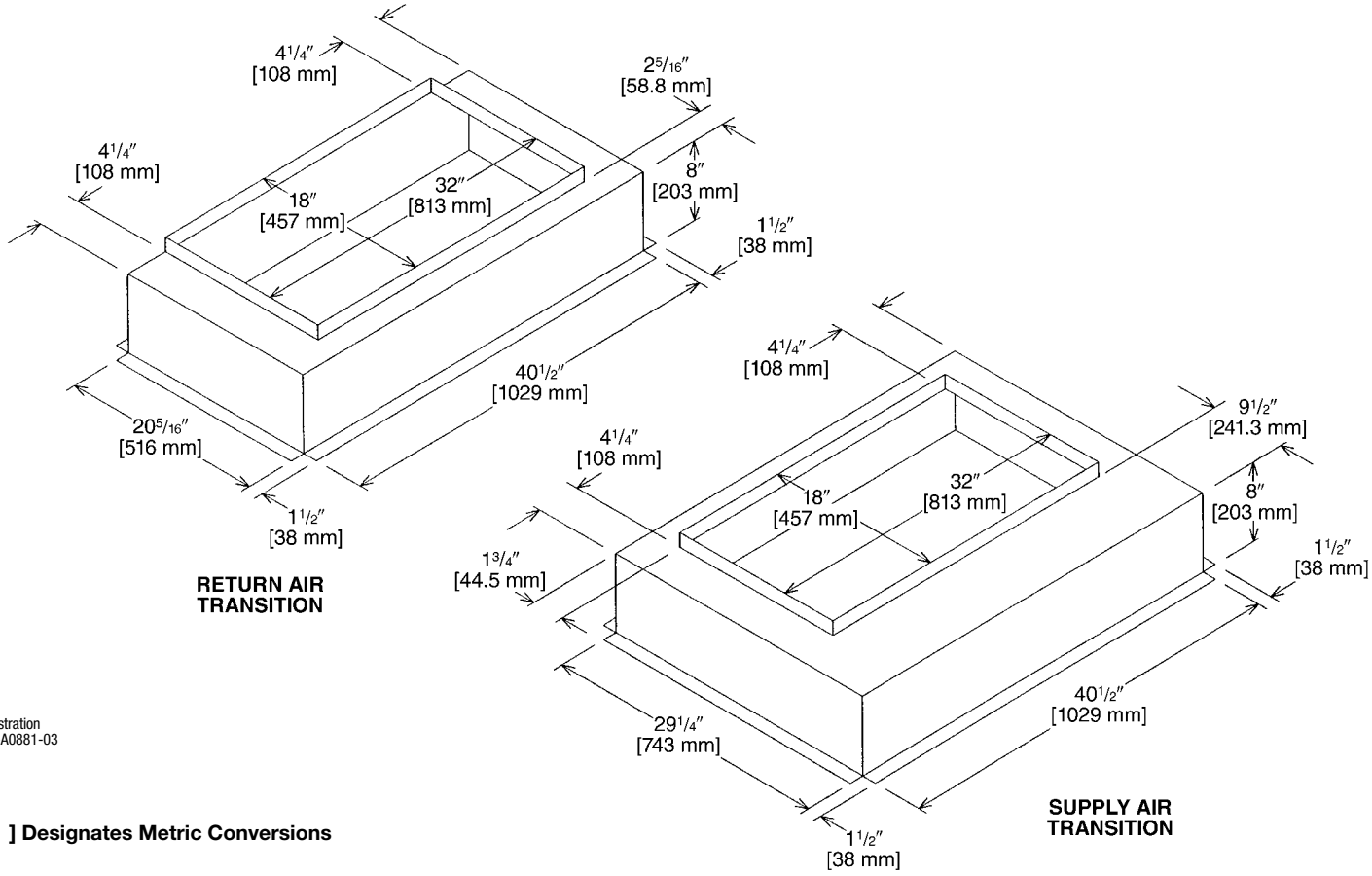


Illustration
ST-A0881-03

[ ] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CD04

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

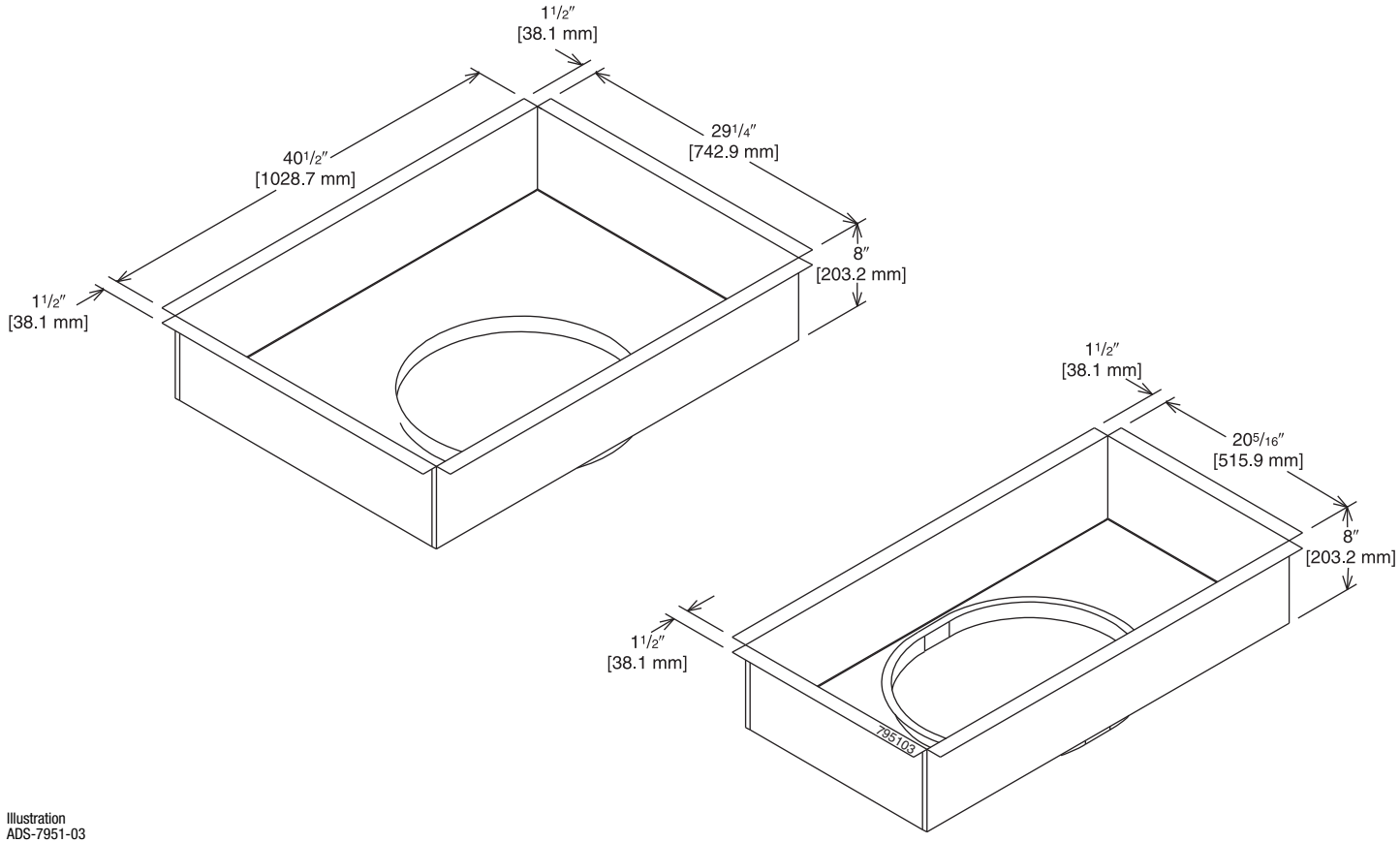


Illustration
ADS-7951-03

[ ] 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.

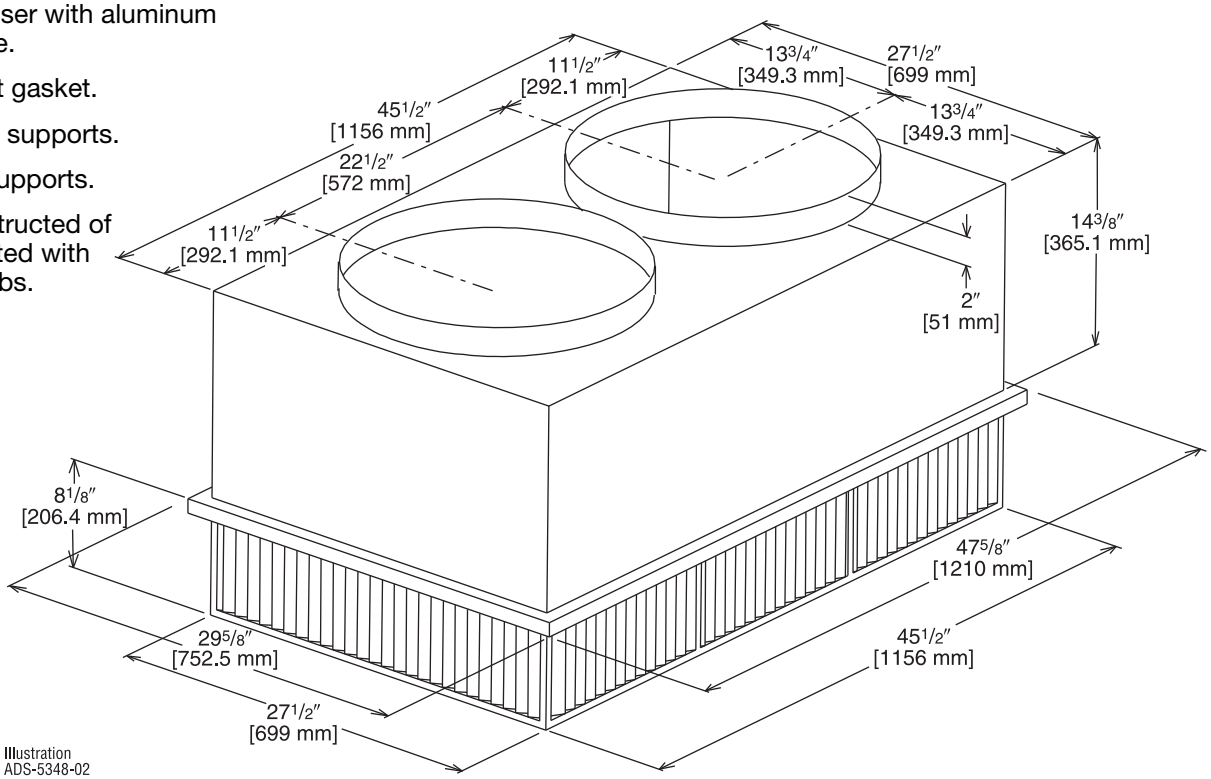


Illustration
ADS-5348-02

ENGINEERING DATA①

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.

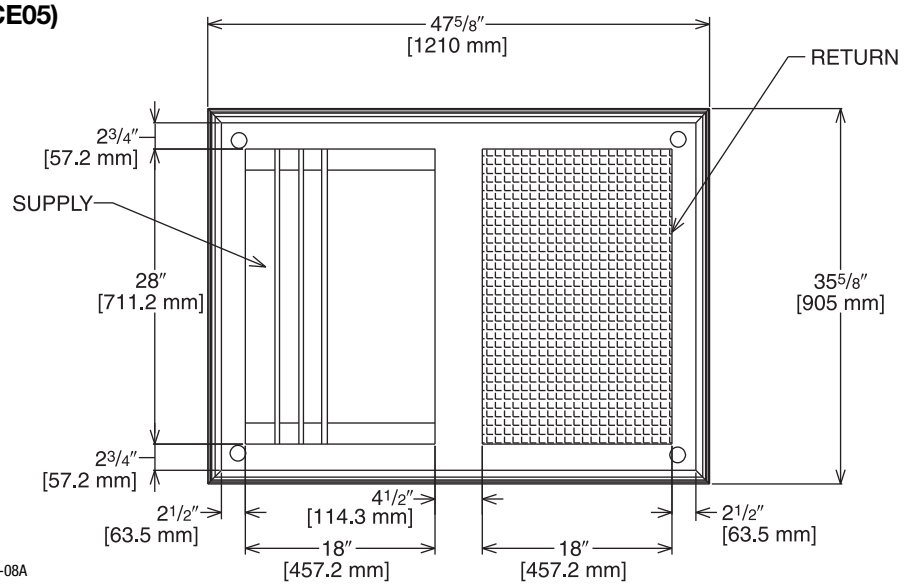


Illustration ADS-7951-08A

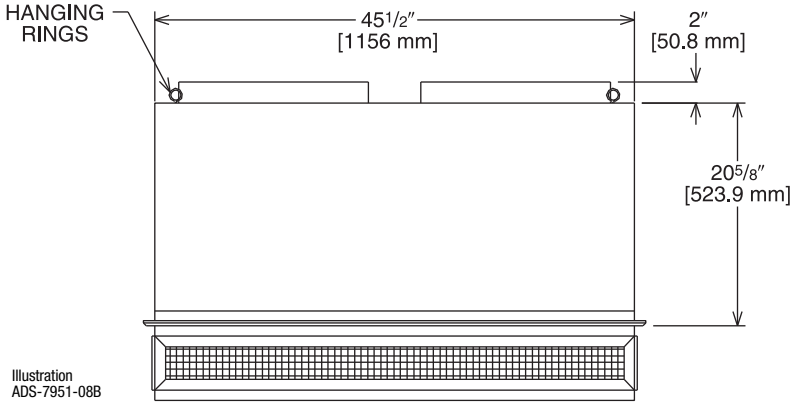


Illustration ADS-7951-08B

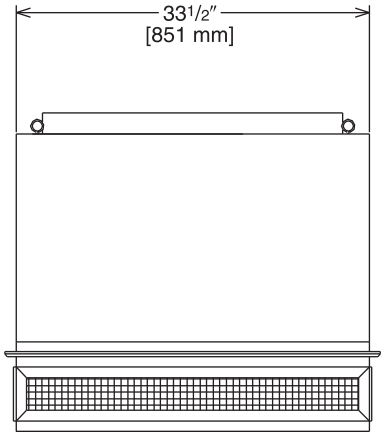


Illustration ADS-7951-08C

ENGINEERING DATA①

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.

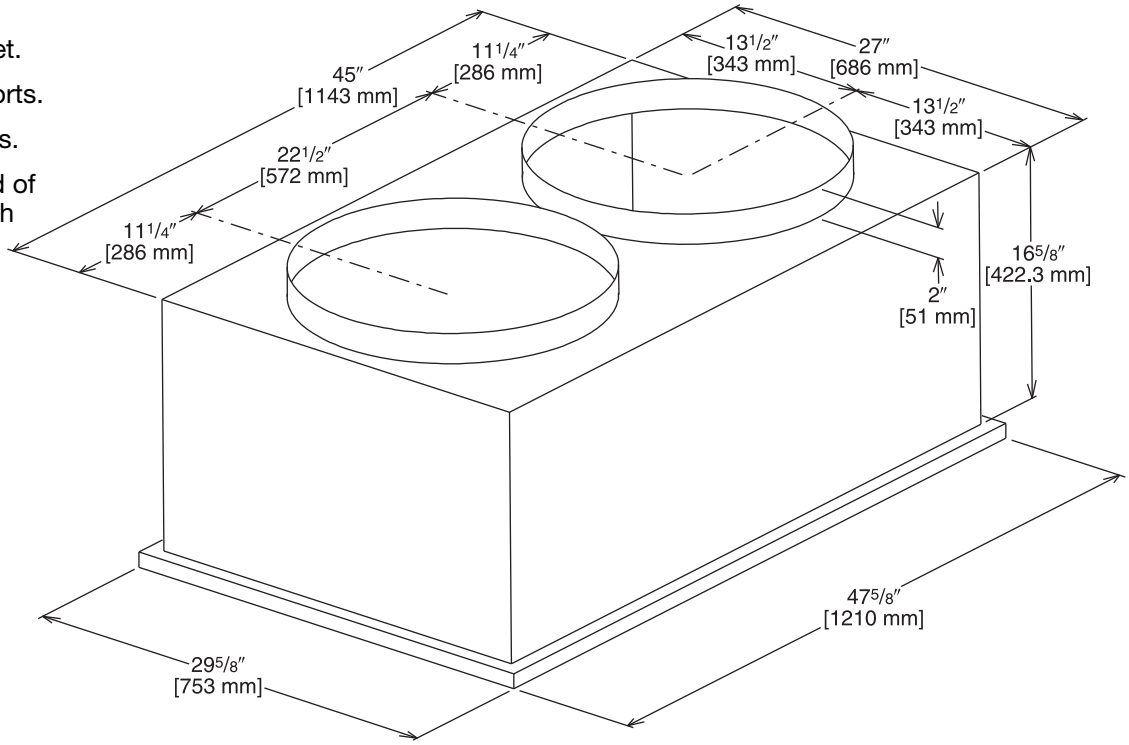


Illustration
ADS-5348-04

ENGINEERING DATA①

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.

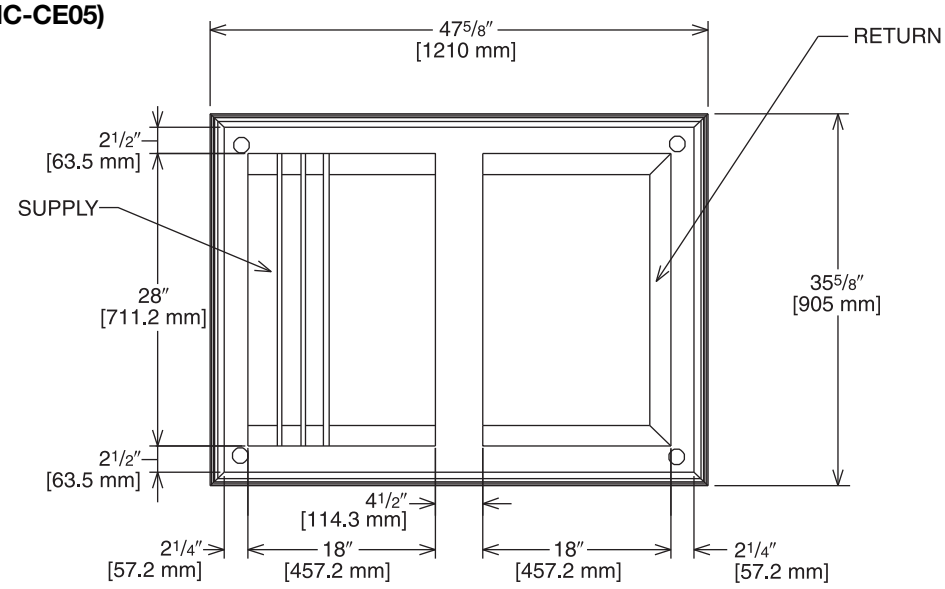


Illustration
ADS-7951-06A

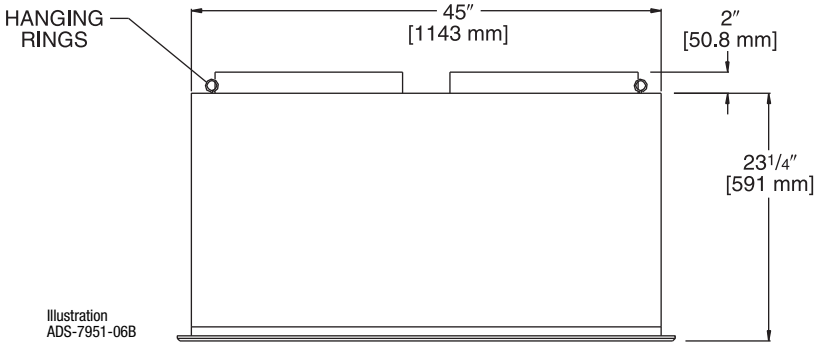


Illustration
ADS-7951-06B

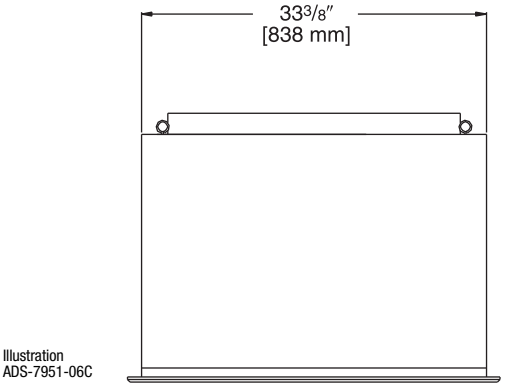


Illustration
ADS-7951-06C

ENGINEERING DATA①

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-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.

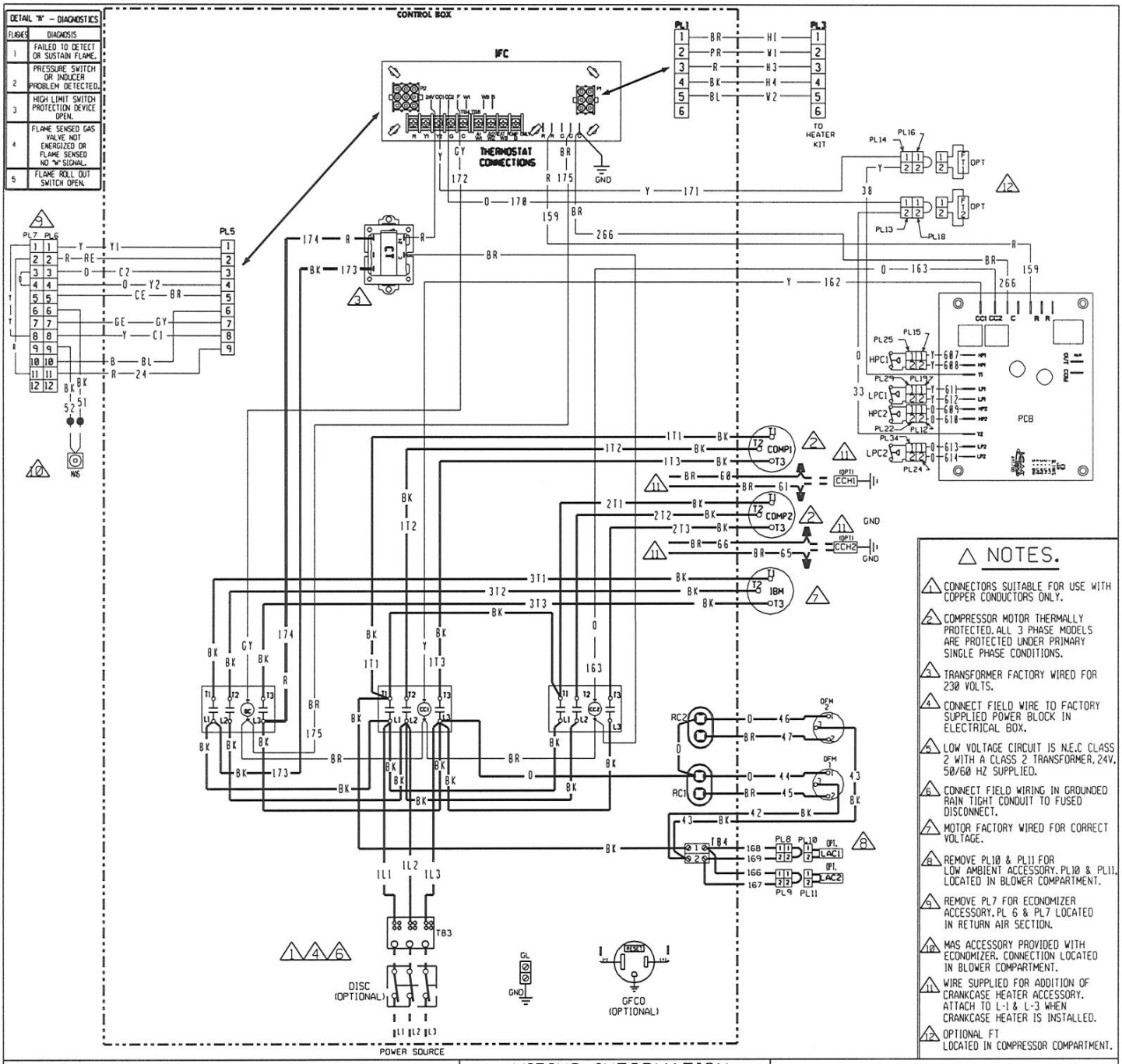
Enthalpy Control—Single Enthalpy Control shall be standard for all economizers. Enthalpy control offers a higher level of comfort control, along with energy savings potential, than the standard dry bulb control. This is due to the additional wet bulb sensing capability.

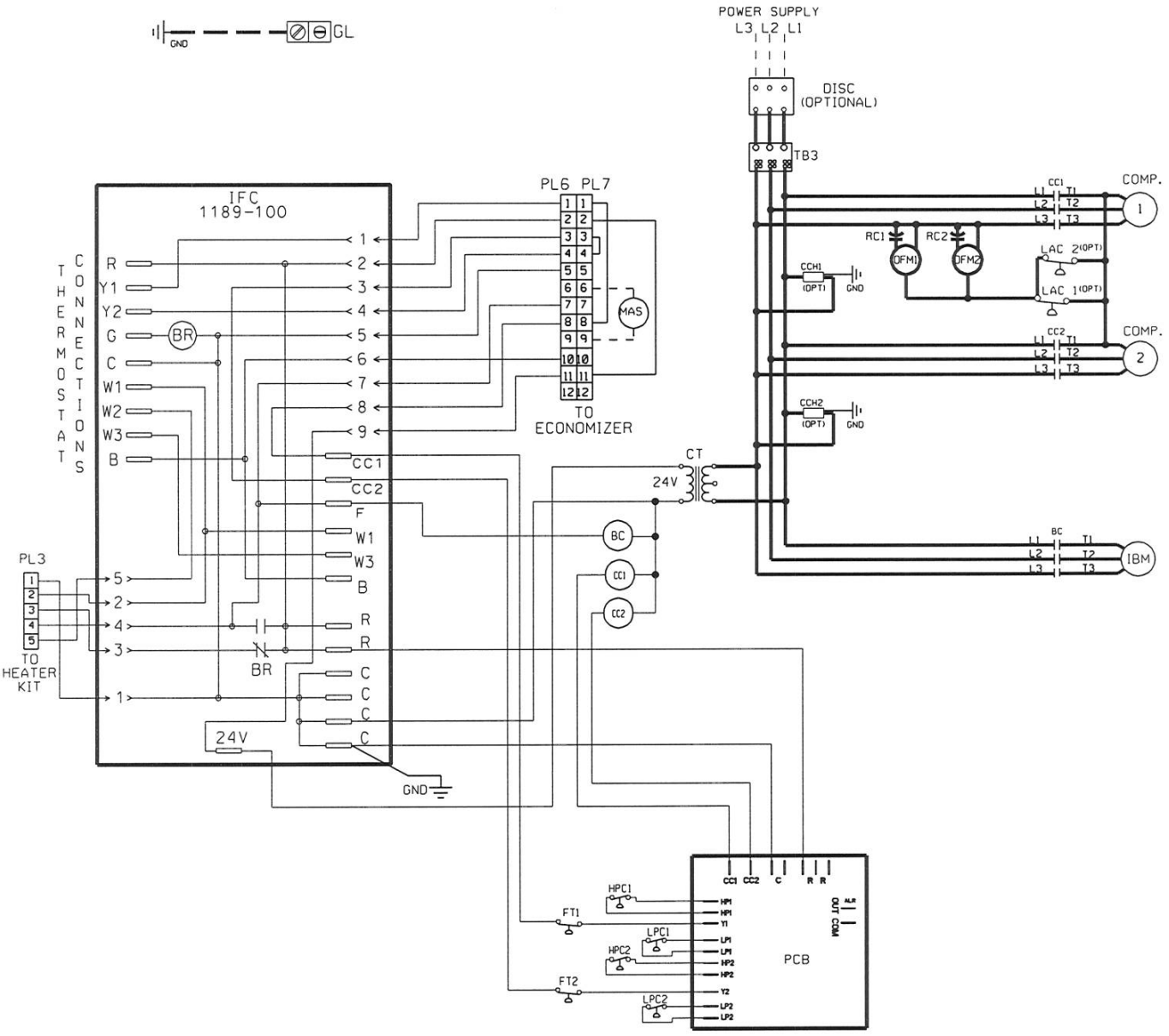
High Pressure Cutout—High pressure cutout shall be standard on all models and 1/4 turn fasteners. All scroll compressors shall include Internal Pressure Relief as standard.

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.


DETAIL "A" – DIAGNOSTICS
FLASHES
DIAGNOSIS
1 FAILED TO DETECT OR SUSTAIN FLAME.
2 PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
3 HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4 FLAME SENSED GAS VALVE NOT ENERGIZED OR FLAME SENSED NO "W" SIGNAL.
5 FLAME ROLL OUT SWITCH OPEN.
CONTROL BOX
IFC
THERMOSTAT CONNECTIONS
TO HEATER KIT
PCB
COMP1
COMP2
IBM
CCH1
CCH2
HPC1
LPC1
HPC2
LPC2
MAS
DISC (OPTIONAL)
GFCO (OPTIONAL)
POWER SOURCE
NOTES.
1 CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2 COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3 TRANSFORMER FACTORY WIRED FOR 230 VOLTS.
4 CONNECT FIELD WIRE TO FACTORY SUPPLIED POWER BLOCK IN ELECTRICAL BOX.
5 LOW VOLTAGE CIRCUIT IS N.E.C CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
6 CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
7 MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
8 REMOVE PL10 & PL11 FOR LOW AMBIENT ACCESSORY. PL10 & PL11, LOCATED IN BLOWER COMPARTMENT.
9 REMOVE PL7 FOR ECONOMIZER ACCESSORY. PL 6 & PL7 LOCATED IN RETURN AIR SECTION.
10 MAS ACCESSORY PROVIDED WITH ECONOMIZER. CONNECTION LOCATED IN BLOWER COMPARTMENT.
11 WIRE SUPPLIED FOR ADDITION OF CRANKCASE HEATER ACCESSORY. ATTACH TO L-1 & L-3 WHEN CRANKCASE HEATER IS INSTALLED.
12 OPTIONAL FT LOCATED IN COMPRESSOR COMPARTMENT.
COMPONENT 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
GL GROUND LUG
GND GROUND
GV GAS VALVE
HPC HIGH PRESSURE CONTROL
IBM INDOOR BLOWER MOTOR BELT DRIVE
IDM INDUCED DRAFT MOTOR
IFC INTEGRATED FURNACE CONTROL
LAC LOW AMBIENT COOLING CONTROL
LC LIMIT CONTROL
LPC LOW PRESSURE CONTROL
MAS MIX AIR SENSOR
MRLC MANUAL RESET LIMIT CONTROL
NPC NEGATIVE PRESSURE CONTROL
OFM OUTDOOR FAN MOTOR
PCB PRESSURE CONTROL BOARD
PL PLUG
RC RUN CAPACITOR
SE SPARK ELECTRODE
TB TERMINAL BLOCK
WIRE NUT
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. AND LOCAL CODES AS APPLICABLE.
WIRE COLOR CODE
BK BLACK
BR BROWN
BL BLUE
G GREEN
GY GRAY
O ORANGE
PR PURPLE
R RED
W WHITE
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 MGB
DATE 8-14-12
DWG. NO. 90-102892-05
REV 01



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 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

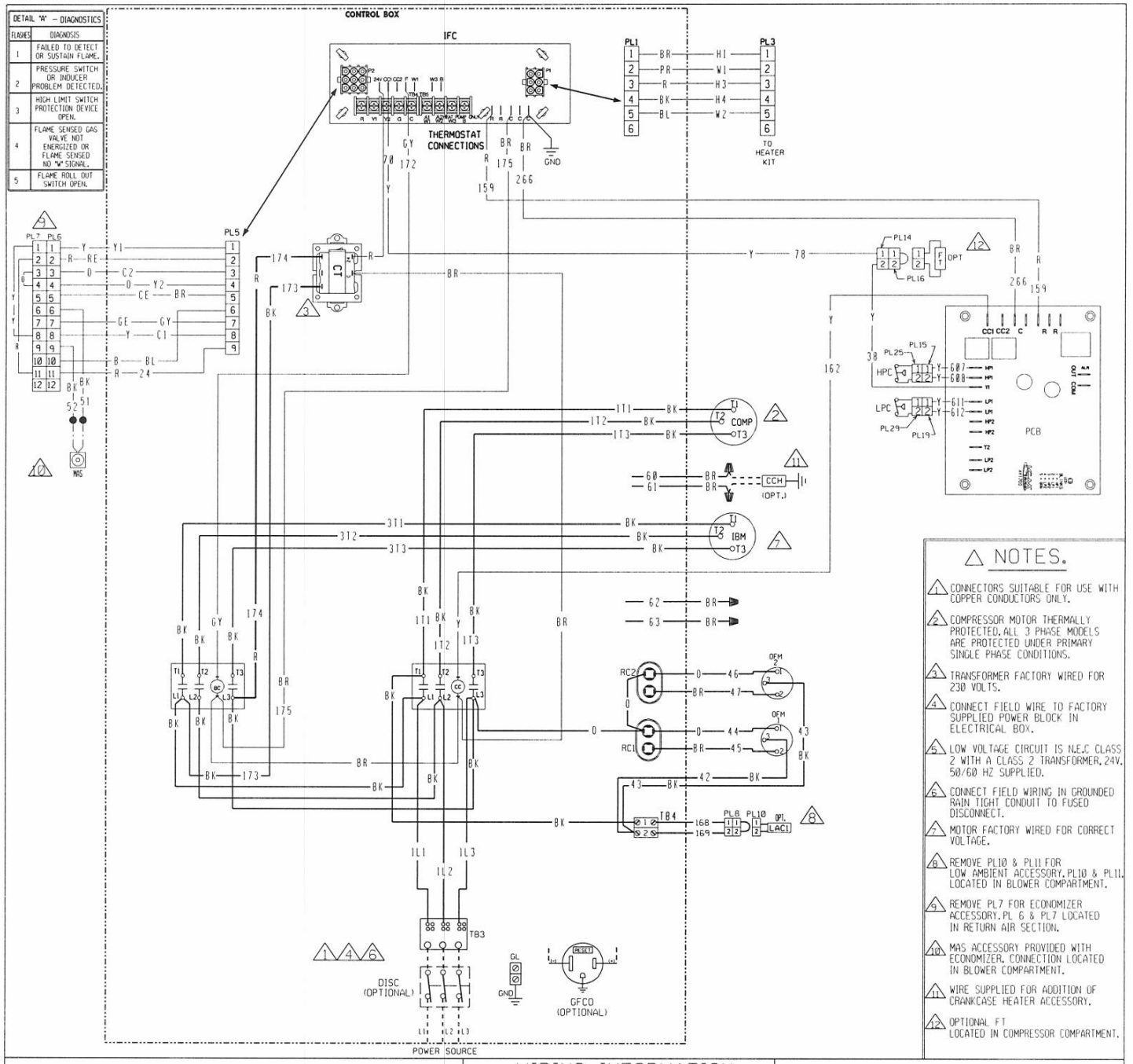
BK	BLACK	O	ORANGE
BR	BROWN	PR	PURPLE
BL	BLUE	R	RED
G	GREEN	W	WHITE
GY	GRAY	Y	YELLOW

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	MEB	8-16-12	90-102893-05	Ø1



△ NOTES.

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. TRANSFORMER FACTORY WIRED FOR 230 VOLTS.
4. CONNECT FIELD WIRE TO FACTORY SUPPLIED POWER BLOCK IN ELECTRICAL BOX.
5. LOW VOLTAGE CIRCUIT IS N.E.C CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
7. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
8. REMOVE PL10 & PL11 FOR LOW AMBIENT ACCESSORY. PL10 & PL11 LOCATED IN BLOWER COMPARTMENT.
9. REMOVE PL7 FOR ECONOMIZER ACCESSORY. PL 6 & PL7 LOCATED IN RETURN AIR SECTION.
10. MAS ACCESSORY PROVIDED WITH ECONOMIZER. CONNECTION LOCATED IN BLOWER COMPARTMENT.
11. WIRE SUPPLIED FOR ADDITION OF CRANKCASE HEATER ACCESSORY.
12. OPTIONAL FT LOCATED IN COMPRESSOR COMPARTMENT.

COMPONENT 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
GL	GROUND LUG
GND	GROUND
GV	GAS VALVE
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR BELT DRIVE
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
LAC	LOW AMBIENT COOLING CONTROL
LC	LIMIT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIX AIR SENSOR
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE CONTROL
OFM	OUTDOOR FAN MOTOR
PCB	PRESSURE CONTROL BOARD
PL	PLUG
RC	RUN CAPACITOR
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK
	WIRE NUT

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.)

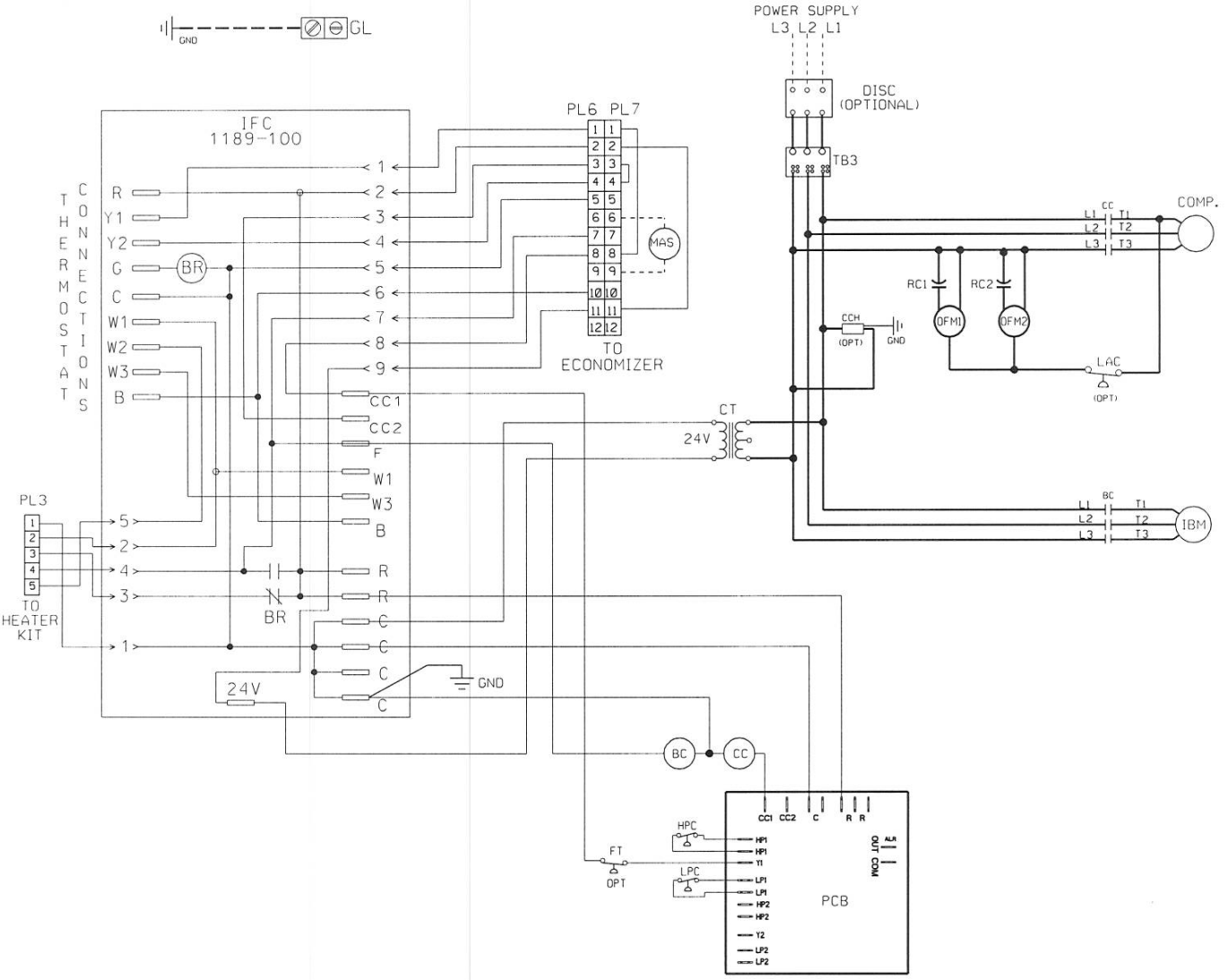
WARNING
- -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.

WIRE COLOR CODE

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

WIRING DIAGRAM
090/120
208-230/460/575V 3 PH, 60 HZ.
200-220/380-415V, 3 PH, 50 HZ

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR	MEB	8-14-12	90-102892-06	00



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 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
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	MGB	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*

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

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

Compressor
3 Phase, Commercial Applications.....Five (5) Years
Parts
3 Phase, Commercial Applications.....One (1) Year

Ruud Heating, Cooling & Water Heating • P.O. Box 17010
Fort Smith, Arkansas 72917 • www.ruud.com

Ruud Canada • 125 Edgeware Road, Unit 1
Brampton, Ontario • L6Y 0P5

PRINTED IN U.S.A 10/12 QG FORM NO. S22-959 REV. 1