



PACKAGE AIR CONDITIONING UNITS

FORM NO. EXS11-942

Featuring Industry Standard R-410A Refrigerant

R-410A

SLKL-B HIGH EFFICIENCY SERIES
NOMINAL SIZES 7.5 & 10 TON [26.4 & 35.2 kW]





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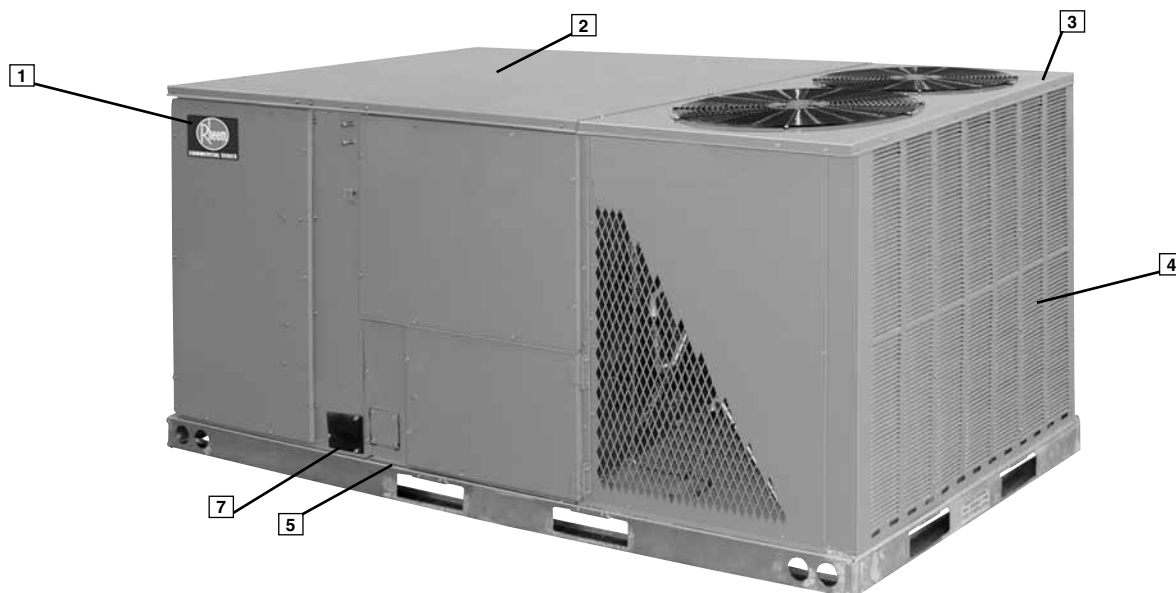


These quality features are included in the Rheem Package Air Conditioner Unit



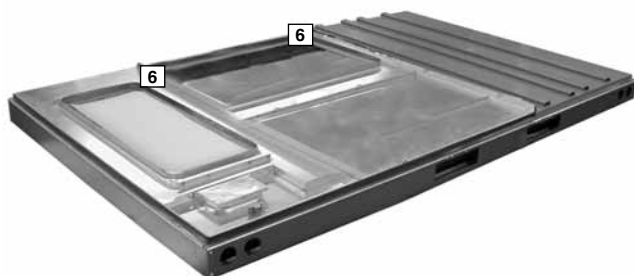
STANDARD FEATURES INCLUDE:

- 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 each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintained high efficiencies.
- Micro channel 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 ASTM B117 steel coated on each side for maximum protection. G90 galvanized.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Molded compressor plug.
- Supplemental electric heat provides 100% efficient heating.



Rheem Package equipment is designed from the ground up with the latest features and benefits required to compete in today's market. The clean design stands alone in the industry and is a testament to the quality, reliability, ease of installation and serviceability that goes into each unit. Outwardly, the large Rheem *Commercial Series*™ 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 Rheem hail guard (optional) (4) is its trademark, and sets the standard for coil protection in the industry. Every Rheem package unit uses the toughest finish in the industry, using electro deposition 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.



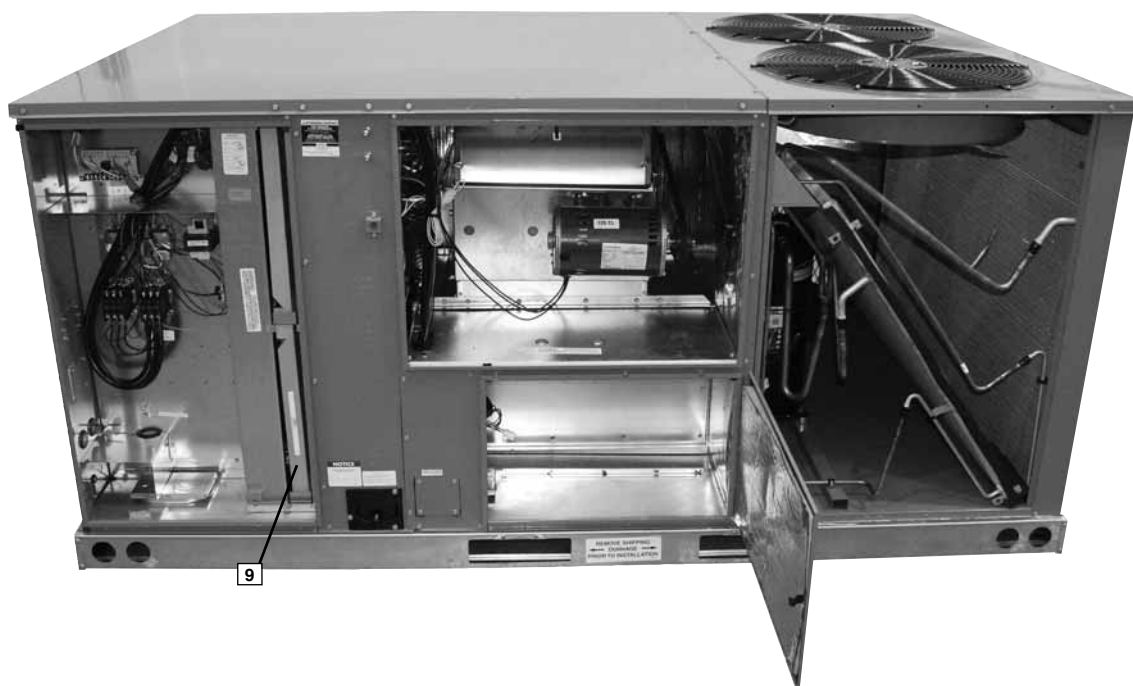
During development, each unit was tested to U.L. 1995, and other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can rest assured that when a Rheem package unit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



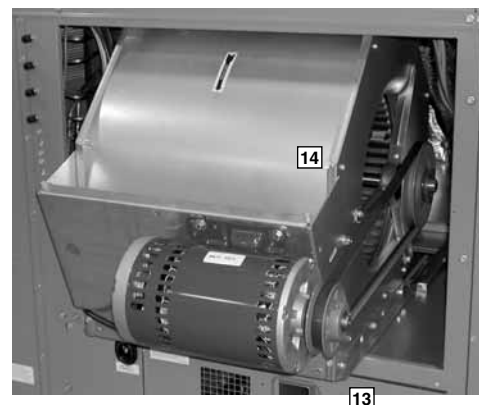
For added convenience in the field, a factory-installed convenience outlet (11) is available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made integrated cooling control. The high-voltage connection is terminated at the number 1 compressor contactor.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



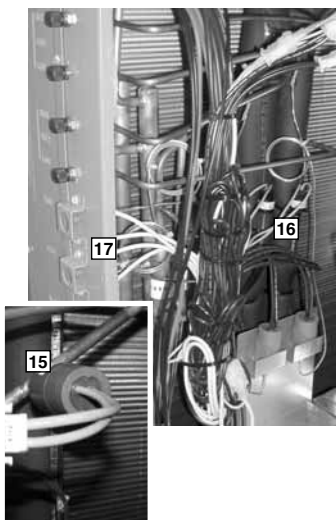
To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection (12). With the gauge ports mounted externally, an accurate 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, Rheem has high-static drives available that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing (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.

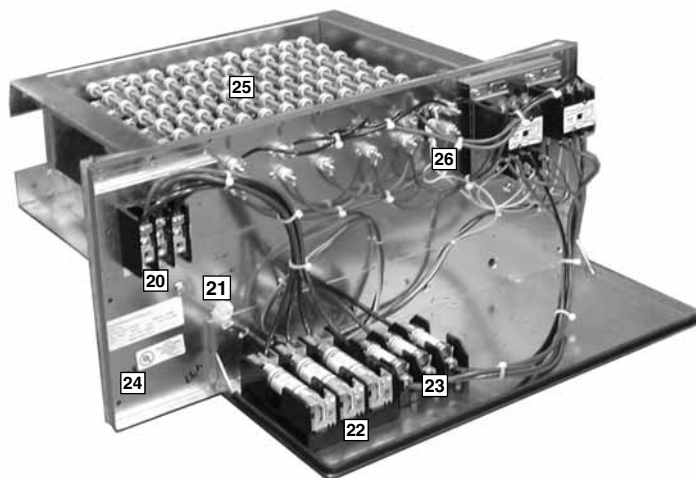
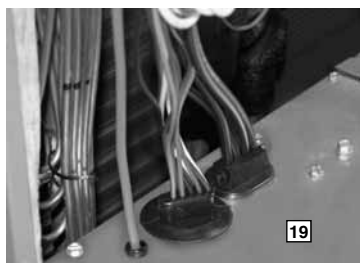


Also inside the blower compartment is the low-ambient control (15), low-pressure switch (16), high-pressure switch (17) and freeze stat refrigerant safety device (18) (optional). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor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

Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly (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.

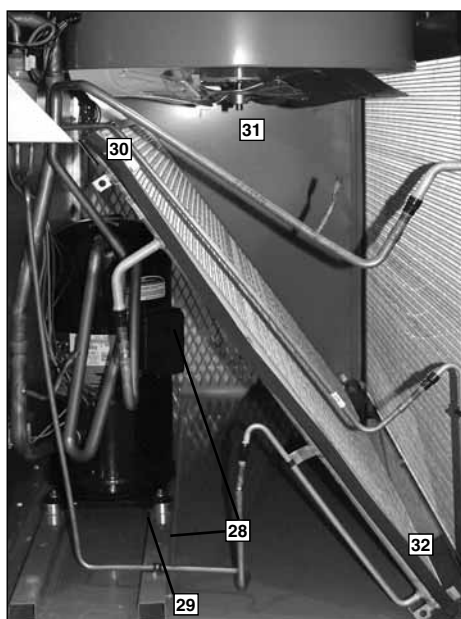


UNIT FEATURES & BENEFITS—SLKL-B SERIES

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

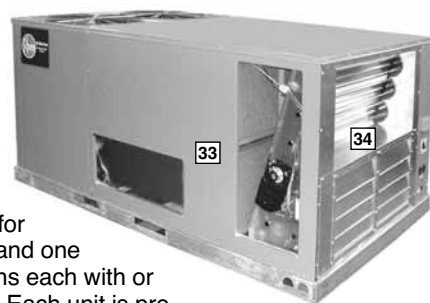
Each unit comes standard with filter dryer (30). The condenser fan motor (31) can easily be accessed and maintained through the compressor compartment. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

The outdoor coil uses the latest micro channel 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.

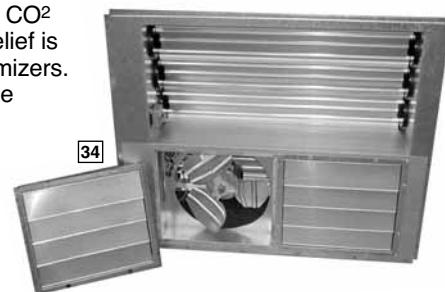


Each unit is designed for both downflow or horizontal applications (33) for job configuration flexibility. The return air compartment can also contain an economizer (34).

Four models exist, 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. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field. The economizer control has a minimum position setpoint, an outdoor-air setpoint, a mix-air setpoint, and a CO₂ setpoint. Barometric relief is standard on all economizers. The wire harness to the economizer also has accommodations for a smoke detector.



The Rheem 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 SLKL-B Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

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

Example:

Voltage —	380/415V—3 Phase—50 Hz
Total Cooling Capacity —	89,000 BTUH [26.1 kW]
Sensible Cooling Capacity —	67,000 BTUH [19.6 kW]
Heating Capacity —	150,000 BTUH [43.9 kW]
*Condenser Entering Air —	95 °F [35.0 °C] DB
*Evaporator Mixed Air Entering —	65 °F [18.3 °C] WB
	78 °F [25.6 °C] DB
*Indoor Air Flow (vertical) —	3000 CFM [1416 L/s]
*External Static Pressure —	0.40 in. WG [.10 kPa]

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 10 ton [35.1 kW] unit, enter cooling performance table at 95°F [35.0 °C] DB condenser inlet air. Interpolate between 63°F [17.2 °C] WB and 67°F [19.4 °C] WB to determine total and sensible capacity and power input for 65°F [18.3 °C] WB evaporator inlet air at 3000 CFM [1416 L/s] indoor air flow (table basis):

Total Cooling Capacity = 101,450 BTUH [29.71 kW]
Sensible Cooling Capacity = 82,550 BTUH [24.17 kW]
Power Input (Compressor and Cond. Fans) = 7,600 watts

Use formula in note (1) to determine sensible capacity at 78°F [25.6 °C] DB evaporator entering air:

$82,550 + (1.10 \times 3,000 \times (1 - 0.05) \times (78 - 80))$
Sensible Cooling Capacity = 76,280 BTUH [22.34 kW]

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

Select factors from airflow correction table at 3000 CFM [1416 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity = $101,450 \times 0.97 = 98,407$ BTUH [28.81 kW]
Sensible Capacity = $76,280 \times 0.93 = 70,940$ BTUH [20.77 kW]
Power Input = $7,600 \times 0.99 = 7,524$ 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 3000 CFM [1416 L/s]. Total ESP (external static pressure) per the spec of 0.40 in. WG [.10 kPa] includes the system duct and grilles. Add from the table "Component Air Resistance", 0.06 in. WG [.01 kPa] for wet coil, 0 in. WG [.00 kPa] for downflow air flow, for a total selection static pressure of 0.46 (0.5) in. WG [.12 kPa], and determine:

RPM = 705
WATTS = 1,127
DRIVE = L (standard 3 H.P. motor)

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

$$1,127 \times 3.412 = 3,845 \text{ BTUH [1.13 kW]}$$

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

$$\text{Net Total Capacity} = 98,407 - 3,845 = 94,562 \text{ BTUH [27.69 kW]}$$

$$\text{Net Sensible Capacity} = 70,940 - 3,845 = 67,095 \text{ BTUH [19.65 kW]}$$

7. CALCULATE UNIT INPUT AND JOB EER.

$$\text{Total Power Input} = 7,524 \text{ (step 3)} + 1,127 \text{ (step 4)} = 8,651 \text{ Watts}$$

$$\text{EER} = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{94,562}{8,651} = 10.93$$

8. SELECT UNIT HEATING CAPACITY.

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

Use 50 kW Heater Kit

Heater Kit Model: RXJJ-CC50D

Heater Kit Capacity: 170,259 BTUH [49.9 kW]

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

$$170,259 + 3,845 = 174,104 \text{ BTUH [51.0 kW]}$$

9. CHOOSE MODEL SLKL-B120NL050

*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



MODEL IDENTIFICATION—SLKL-B SERIES



S	L	K	L	—	B	120	C	L	000	X	X	X
										Economizer Option (See Next Page)		
										Factory Installed Options (See Next Page)		
										Electric Heat		
										000 = No Resistance Heat		
										010 = 10 kW Resistance Heat		
										015 = 15 kW Resistance Heat		
										020 = 20 kW Resistance Heat		
										030 = 30 kW Resistance Heat		
										040 = 40 kW Resistance Heat		
										050 = 50 kW Resistance Heat		
										Drive Package		
										L = Belt Drive		
										M = Belt Drive—High Static		
										Electrical Designation		
										N = 380-415 V, 3 PH, 50 Hz		
										P = 200-220 V, 3 PH, 50 Hz		
										Cooling Capacity (BTUH) [kW]		
										090 = 90,000 [26.38]		
										120 = 120,000 [35.17]		
										Future Technical Variations		
										Design Series		
										L = R410A		
										Efficiency Designation		
										K = Standard Efficiency		
										Product Classification		
										L = Packaged Air Conditioner—Commercial		
										Tradebrand		
										R = Rheem Packaged Gas/Electric		

[] Designates Metric Conversions

7.5 & 10 TON [26.4 & 35.2 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 TON [26.4 & 35.2 kW]

	No Economizer	Single Enthalpy Economizer with Barometric Relief	Single Enthalpy Economizer with Barometric Relief and Smoke Detector
A	X		
B		X	
C			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:

SLKL-B120CL000this unit has no factory installed options.

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

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

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

SLKL-B120CL000**AAC**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 TON [26.4 & 35.2 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model SLKL- Series	B090NL	B090NM	B090PL	B120NL
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	74,000 [21.68]	74,000 [21.68]	74,000 [21.68]	104,000 [30.47]
EER/SEER ²	11.6/NA	11.6/NA	11.6/NA	11.2/NA
Rated CFM [L/s]	2400 [1133]	2400 [1133]	2400 [1133]	3000 [1416]
Net Cooling Capacity Btu [kW]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	100,000 [29.3]
Net Sensible Capacity Btu [kW]	55,000 [16.11]	55,000 [16.11]	55,000 [16.11]	72,700 [21.3]
Net Latent Capacity Btu [kW]	17,000 [4.98]	17,000 [4.98]	17,000 [4.98]	27,300 [8]
IEER ³	11.8	11.8	11.8	11.9
Net System Power [kW]	6.18	6.18	6.18	8.86
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]	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 / 18 [7]	2 / 18 [7]	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]	1/24 [609.6]	1/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3749 [1769]	3749 [1769]	3749 [1769]	7000 [3303]
No. Motors/HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	2 at 1/3 HP
Motor RPM	895	895	895	895
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	3	3	3
Motor RPM	1440	1440	1440	1437
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]	113.6 [3221]	113.6 [3221]	113.6 [3221]	206.4 [5851]
Weights				
Net Weight lbs. [kg]	890 [404]	890 [404]	890 [404]	992 [450]
Ship Weight lbs. [kg]	927 [420]	927 [420]	927 [420]	1029 [467]

See Page 13 for Notes.

[] Designates Metric Conversions

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

Model SLKL- Series	B120NM	B120PL
Cooling Performance¹		
Gross Cooling Capacity Btu [kW]	104,000 [30.47]	104,000 [30.47]
EER/SEER ²	11.2/NA	11.2/NA
Rated CFM [L/s]	3000 [1416]	3000 [1416]
Net Cooling Capacity Btu [kW]	100,000 [29.3]	100,000 [29.3]
Net Sensible Capacity Btu [kW]	72,700 [21.3]	72,700 [21.3]
Net Latent Capacity Btu [kW]	27,300 [8]	27,300 [8]
IEER ³	11.9	11.9
Net System Power [kW]	8.86	8.86
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)⁴		
	88	88
Outdoor Coil—Fin Type		
Tube Type	Louvered	Louvered
MicroChannel Depth In. [mm]	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	27 [2.51]	27 [2.51]
	1 / 23 [9]	1 / 23 [9]
Indoor Coil—Fin Type		
Tube Type	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	13.5 [1.25]	13.5 [1.25]
Refrigerant Control	2 / 22 [9]	2 / 22 [9]
Drain Connection No./Size in. [mm]	Orifices	Orifices
	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type		
No. Used/Diameter in. [mm]	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1
No. Motors/HP	7000 [3303]	7000 [3303]
Motor RPM	2 at 1/3 HP	2 at 1/3 HP
	895	895
Indoor Fan—Type		
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	1/15x15 [381x381]	1/15x15 [381x381]
No. Motors	Belt/Variable	Belt/Variable
Motor HP	1	1
Motor RPM	3	3
Motor Frame Size	1457	1437
	56	56
Filter—Type		
Furnished	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes
	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]		
	206.4 [5851]	206.4 [5851]
Weights		
Net Weight lbs. [kg]	992 [450]	992 [450]
Ship Weight lbs. [kg]	1029 [467]	1029 [467]

See Page 13 for Notes.

[] Designates Metric Conversions



NOTES:

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



GROSS SYSTEMS PERFORMANCE DATA—B090

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			2940 [1388]	2400 [1133]	1960 [925]	2940 [1388]	2400 [1133]	1960 [925]	2940 [1388]	2400 [1133]	1960 [925]
DR ①			.03	.07	.10	.03	.07	.10	.03	.07	.10
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	89.7 [26.3]	86.2 [25.3]	83.3 [24.4]	86.1 [25.2]	82.8 [24.3]	80.0 [23.4]	82.3 [24.1]	79.1 [23.2]	76.4 [22.4]
		Sens BTUH [kW]	60.9 [17.8]	51.6 [15.1]	44.5 [15.1]	71.7 [21.0]	61.6 [18.0]	53.8 [18.0]	79.9 [23.4]	69.1 [20.2]	60.7 [20.2]
		Power	4.7	4.6	4.5	4.6	4.5	4.4	4.5	4.4	4.3
	80 [26.7]	Total BTUH [kW]	88.0 [25.8]	84.5 [24.8]	81.7 [23.9]	84.4 [24.7]	81.1 [23.8]	78.4 [23.0]	80.6 [23.6]	77.4 [22.7]	74.8 [21.9]
		Sens BTUH [kW]	60.0 [17.6]	50.8 [14.9]	43.9 [14.9]	70.8 [20.7]	60.8 [17.8]	53.1 [17.8]	79.0 [23.1]	68.3 [20.0]	60.1 [20.0]
		Power	4.9	4.8	4.7	4.8	4.7	4.6	4.7	4.6	4.5
	85 [29.4]	Total BTUH [kW]	86.0 [25.2]	82.6 [24.2]	79.8 [23.4]	82.4 [24.1]	79.2 [23.2]	76.5 [22.4]	78.6 [23.0]	75.5 [22.1]	72.9 [21.4]
		Sens BTUH [kW]	58.9 [17.3]	49.9 [14.6]	43.1 [14.6]	69.7 [20.4]	59.9 [17.6]	52.3 [17.6]	77.9 [22.8]	67.4 [19.7]	59.3 [19.7]
		Power	5.2	5.1	5.0	5.0	5.0	4.9	4.9	4.8	4.8
	90 [32.2]	Total BTUH [kW]	83.6 [24.5]	80.3 [23.5]	77.6 [22.7]	80.0 [23.4]	76.9 [22.5]	74.3 [21.8]	76.2 [22.3]	73.2 [21.4]	70.8 [20.7]
		Sens BTUH [kW]	57.5 [16.8]	48.7 [14.3]	42.1 [14.3]	68.3 [20.0]	58.7 [17.2]	51.3 [17.2]	76.2 [22.3]	66.3 [19.4]	58.4 [19.4]
		Power	5.4	5.3	5.2	5.3	5.2	5.1	5.2	5.1	5.0
95 [35]	Total BTUH [kW]	80.9 [23.7]	77.7 [22.8]	75.2 [22.0]	77.4 [22.7]	74.3 [21.8]	71.8 [21.0]	73.5 [21.5]	70.6 [20.7]	68.3 [20.0]	
	Sens BTUH [kW]	55.8 [16.3]	47.3 [13.9]	41.0 [13.9]	66.7 [19.5]	57.3 [16.8]	50.1 [16.8]	73.5 [21.5]	64.9 [19.0]	57.2 [19.0]	
	Power	5.7	5.6	5.5	5.6	5.5	5.4	5.5	5.4	5.3	
100 [37.8]	Total BTUH [kW]	77.9 [22.8]	74.9 [21.9]	72.4 [21.2]	74.4 [21.8]	71.4 [20.9]	69.1 [20.2]	70.5 [20.7]	67.8 [19.9]	65.5 [19.2]	
	Sens BTUH [kW]	54.0 [15.8]	45.9 [13.4]	39.7 [13.4]	64.9 [19.0]	55.7 [16.3]	48.8 [16.3]	70.5 [20.7]	63.4 [18.6]	55.9 [18.6]	
	Power	6.0	5.9	5.8	5.9	5.8	5.7	5.8	5.7	5.6	
105 [40.6]	Total BTUH [kW]	74.6 [21.9]	71.7 [21.0]	69.3 [20.3]	71.1 [20.8]	68.3 [20.0]	66.0 [19.3]	67.2 [19.7]	64.6 [18.9]	62.4 [18.3]	
	Sens BTUH [kW]	51.9 [15.2]	44.1 [12.9]	38.1 [12.9]	62.8 [18.4]	54.0 [15.8]	47.3 [15.8]	67.2 [19.7]	61.6 [18.0]	54.3 [18.0]	
	Power	6.3	6.2	6.1	6.2	6.1	6.0	6.1	6.0	5.9	
110 [43.3]	Total BTUH [kW]	71.0 [20.8]	68.2 [20.0]	65.9 [19.3]	67.4 [19.7]	64.8 [19.0]	62.6 [18.3]	63.6 [18.6]	61.1 [17.9]	59.0 [17.3]	
	Sens BTUH [kW]	49.6 [14.5]	42.1 [12.3]	36.4 [12.3]	60.4 [17.7]	52.1 [15.3]	45.6 [15.3]	63.6 [18.6]	59.6 [17.5]	52.6 [17.3]	
	Power	6.7	6.6	6.5	6.6	6.4	6.3	6.5	6.3	6.2	
115 [46.1]	Total BTUH [kW]	67.0 [19.6]	64.4 [18.9]	62.2 [18.2]	63.4 [18.6]	61.0 [17.9]	58.9 [17.3]	59.6 [17.5]	57.3 [16.8]	55.3 [16.2]	
	Sens BTUH [kW]	47.0 [13.8]	39.9 [11.7]	34.5 [11.7]	57.8 [16.9]	49.9 [14.6]	43.7 [14.6]	59.6 [17.5]	57.3 [16.8]	50.8 [16.2]	
	Power	7.0	6.9	6.8	6.9	6.8	6.7	6.8	6.7	6.6	
120 [48.9]	Total BTUH [kW]	62.7 [18.4]	60.3 [17.7]	58.2 [17.1]	59.2 [17.3]	56.8 [16.6]	54.9 [16.1]	55.3 [16.2]	53.1 [15.6]	51.4 [15.1]	
	Sens BTUH [kW]	44.2 [13.0]	37.6 [11.0]	32.5 [11.0]	55.0 [16.1]	47.4 [13.9]	41.6 [13.9]	55.3 [16.2]	53.1 [15.6]	48.7 [15.1]	
	Power	7.4	7.3	7.2	7.3	7.2	7.1	7.2	7.1	7.0	

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

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

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

[] Designates Metric Conversions



SYSTEMS PERFORMANCE—SLKL-B SERIES

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]			4000 [1888]	3000 [1416]	2600 [1227]	4000 [1888]	3000 [1416]	2600 [1227]	4000 [1888]	3000 [1416]	2600 [1227]
DR ①			0	.05	.08	0	.05	.08	0	.05	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	129.9 [38.1]	122.5 [35.9]	119.5 [35.0]	123.5 [36.2]	116.5 [34.1]	113.6 [33.3]	118.2 [34.6]	111.4 [32.6]	108.7 [31.8]
		Sens BTUH [kW]	89.0 [26.1]	69.6 [20.4]	62.5 [20.4]	103.4 [30.3]	82.5 [24.2]	74.6 [24.2]	116.6 [34.2]	94.1 [27.6]	85.7 [27.6]
		Power	6.8	6.6	6.5	6.6	6.4	6.3	6.4	6.3	6.2
	80 [26.7]	Total BTUH [kW]	127.0 [37.2]	119.8 [35.1]	116.9 [34.3]	120.7 [35.4]	113.8 [33.3]	111.0 [32.5]	115.3 [33.8]	108.7 [31.8]	106.1 [31.1]
		Sens BTUH [kW]	87.2 [25.5]	68.3 [20.0]	61.3 [20.0]	101.8 [29.8]	81.2 [23.8]	73.5 [23.8]	115.0 [33.7]	92.9 [27.2]	84.7 [27.2]
		Power	7.1	6.9	6.8	6.9	6.7	6.6	6.7	6.6	6.5
	85 [29.4]	Total BTUH [kW]	123.9 [36.3]	116.8 [34.2]	114.0 [33.4]	117.5 [34.4]	110.8 [32.5]	108.1 [31.7]	112.2 [32.9]	105.8 [31.0]	103.2 [30.2]
		Sens BTUH [kW]	85.5 [25.1]	66.9 [19.6]	60.1 [19.6]	100.0 [29.3]	79.8 [23.4]	72.3 [23.4]	112.2 [32.9]	91.6 [26.8]	83.5 [26.8]
		Power	7.4	7.2	7.1	7.2	7.0	6.9	7.1	6.9	6.8
	90 [32.2]	Total BTUH [kW]	120.4 [35.3]	113.5 [33.3]	110.8 [32.5]	114.1 [33.4]	107.5 [31.5]	104.9 [30.7]	108.7 [31.8]	102.5 [30.0]	100.0 [29.3]
Sens BTUH [kW]		83.5 [24.5]	65.4 [19.2]	58.8 [19.2]	98.1 [28.7]	78.3 [22.9]	71.0 [22.9]	108.7 [31.8]	90.0 [26.4]	82.1 [26.4]	
Power		7.7	7.5	7.4	7.6	7.3	7.3	7.4	7.2	7.1	
95 [35]	Total BTUH [kW]	116.6 [34.2]	110.0 [32.2]	107.3 [31.4]	110.3 [32.3]	104.0 [30.5]	101.5 [29.7]	104.9 [30.7]	98.9 [29.0]	96.5 [28.3]	
	Sens BTUH [kW]	81.4 [23.8]	63.8 [18.7]	57.3 [18.7]	95.9 [28.1]	76.7 [22.5]	69.6 [22.5]	104.9 [30.7]	88.4 [25.9]	80.6 [25.9]	
	Power	8.1	7.8	7.8	7.9	7.7	7.6	7.8	7.5	7.4	
100 [37.8]	Total BTUH [kW]	112.6 [33.0]	106.1 [31.1]	103.6 [30.4]	106.2 [31.1]	100.2 [29.4]	97.7 [28.6]	100.9 [29.6]	95.1 [27.9]	92.8 [27.2]	
	Sens BTUH [kW]	79.0 [23.1]	61.9 [18.1]	55.7 [18.1]	93.6 [27.4]	75.0 [22.0]	68.0 [22.0]	100.9 [29.6]	86.6 [25.4]	79.1 [25.4]	
	Power	8.4	8.2	8.1	8.3	8.0	8.0	8.1	7.9	7.8	
105 [40.6]	Total BTUH [kW]	108.2 [31.7]	102.0 [29.9]	99.5 [29.2]	101.9 [29.9]	96.0 [28.1]	93.7 [27.5]	96.5 [28.3]	91.0 [26.7]	88.8 [26.0]	
	Sens BTUH [kW]	76.6 [22.4]	60.1 [17.6]	54.0 [17.6]	91.2 [26.7]	73.0 [21.4]	66.3 [21.4]	96.5 [28.3]	84.8 [24.8]	77.5 [24.8]	
	Power	8.8	8.6	8.5	8.7	8.4	8.3	8.5	8.3	8.2	
110 [43.3]	Total BTUH [kW]	103.5 [30.3]	97.6 [28.6]	95.2 [27.9]	97.2 [28.5]	91.6 [26.8]	89.4 [26.2]	91.8 [26.9]	86.6 [25.4]	84.5 [24.8]	
	Sens BTUH [kW]	74.0 [21.7]	58.1 [17.0]	52.2 [17.0]	88.5 [25.9]	71.0 [20.8]	64.5 [20.8]	91.8 [26.9]	82.8 [24.3]	75.7 [24.3]	
	Power	9.2	9.0	8.9	9.1	8.8	8.7	8.9	8.7	8.6	
115 [46.1]	Total BTUH [kW]	98.5 [28.9]	92.9 [27.2]	90.7 [26.6]	92.2 [27.0]	86.9 [25.5]	84.8 [24.8]	86.8 [25.4]	81.9 [24.0]	79.9 [23.4]	
	Sens BTUH [kW]	71.1 [20.8]	55.9 [16.4]	50.4 [16.4]	85.7 [25.1]	68.9 [20.2]	62.6 [20.2]	86.8 [25.4]	80.6 [23.6]	73.7 [23.4]	
	Power	9.7	9.4	9.3	9.5	9.2	9.1	9.4	9.1	9.0	
120 [48.9]	Total BTUH [kW]	93.3 [27.3]	87.9 [25.8]	85.8 [25.1]	86.9 [25.5]	81.9 [24.0]	80.0 [23.4]	81.6 [23.9]	76.9 [22.5]	75.0 [22.0]	
	Sens BTUH [kW]	68.2 [20.0]	53.6 [15.7]	48.3 [15.7]	82.7 [24.2]	66.6 [19.5]	60.7 [19.5]	81.6 [23.9]	76.9 [22.5]	71.6 [22.0]	
	Power	10.1	9.8	9.7	10.0	9.7	9.6	9.8	9.5	9.4	

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions



AIRFLOW PERFORMANCE—7.5 TON [26.4 kW]—50 Hz

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]	
	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
2000 [944]	—	—	—	—	—	—	589	536	615	587	648	610	676	649	706	711	735	773	764	835	794	898	818	960	882	1020	900	1282	933	1581
2200 [1038]	—	—	—	—	—	—	605	633	632	694	665	725	694	769	723	831	752	893	782	956	811	1018	837	1080	871	1150	914	1410	946	1603
2400 [1133]	—	—	—	—	—	—	623	780	652	816	682	825	816	890	740	952	770	1014	799	1076	828	1138	857	1201	887	1261	929	1538	958	1623
2600 [1227]	—	—	—	—	—	—	602	816	633	858	664	901	699	948	729	1010	758	1072	877	1134	816	1196	846	1258	875	1320	914	1581	943	1666
2800 [1321]	—	—	593	884	623	929	653	974	684	1020	717	1069	748	1131	775	1192	804	1254	834	1316	863	1378	892	1440	928	1709	958	1794	—	—
3000 [1416]	—	—	608	972	638	1020	669	1069	705	1127	734	1189	763	1251	792	1313	822	1375	851	1437	880	1498	913	1752	943	1837	—	—	—	—

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]	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	721 695 669 642 616 589	960 917 876 834 792 750

NOTES: 1. Factory sheave settings are shown in bold print.
2. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 7.5 TON [26.4 kW]

ACTUAL—CFM [L/s]	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]
TOTAL MBH	.96	.97	.98	1.00	1.01	1.02
SENSIBLE MBH	.89	.92	.96	.99	1.03	1.06
POWER kW	.98	.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]

Component	Standard Indoor Airflow—CFM [L/s]					
	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]
	Resistance—Inches Water [kPa]					
Wet Coil	.04	.04	.05	.05	.06	.06
Economizer R.A. Damper Open	.03	.04	.05	.06	.07	.08
Concentric Grille & Transition	.11	.12	.13	.15	.17	.19

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



AIRFLOW PERFORMANCE—10 TON [35.2 kW]—50 HZ

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]		
2600 [1227]	—	572	776	602	816	633	858	664	901	699	948	729	1010	758	1072	804
2800 [1321]	564	839	593	884	623	929	653	974	684	1020	717	1069	748	1131	1192	1254
3000 [1416]	579	924	608	972	638	1020	669	1069	705	1127	734	1189	763	1251	1313	1375
3200 [1510]	603	945	630	1020	659	1095	687	1170	715	1245	742	1319	770	1394	1468	1543
3400 [1605]	629	1114	658	1188	686	1262	714	1336	742	1410	769	1485	797	1559	1634	1708
3600 [1699]	655	1278	684	1352	713	1426	741	1501	769	1576	796	1650	824	1725	1799	1874
3800 [1793]	684	1445	712	1519	740	1593	768	1667	796	1741	823	1816	851	1890	1965	2003
4000 [1888]	711	1607	739	1682	767	1757	795	1832	823	1907	850	1981	878	2056	2085	2199

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]						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	704	675	646	616	586	557	867	907	867	826	786	745

NOTES: 1. Factory sheave settings are shown in bold print.
2. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 10 TON [35.2 kW]

ACTUAL—CFM [L/s]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]
TOTAL MBH	.95	.96	.97	.99	1.00	1.01	1.02	1.03
SENSIBLE MBH	.88	.91	.93	.96	.99	1.01	1.04	1.07
POWER kW	.98	.98	.99	.99	1.00	1.00	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]

Component	Standard Indoor Airflow—CFM [L/s]							
	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]
	Resistance—Inches Water [kPa]							
Wet Coil	.05	.06	.06	.07	.07	.08	.08	.09
Economizer R.A. Damper Open	.06	.07	.08	.09	.10	.11	.12	.13
Concentric Grille & Transition	.15	.17	.19	.21	.24	.28	.33	.38

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



ELECTRICAL DATA – SLKL SERIES							
		B090NL	B090NM	B090PL	B120NL	B120NM	B120PL
Unit Information	Unit Operating Voltage Range	342-456	342-456	180-242	342-456	342-456	180-242
	Volts	380/415	380/415	200/220	380/415	380/415	200/220
	Minimum Circuit Ampacity	23/23	23/23	43/43	31/31	31/31	56/56
	Minimum Overcurrent Protection Device Size	30/30	30/30	50/50	35/35	35/35	70/70
	Maximum Overcurrent Protection Device Size	30/30	30/30	60/60	45/45	45/45	80/80
Compressor Motor	No.	1	1	1	1	1	1
	Volts	380/415	380/415	200/220	380/415	380/415	200/220
	Phase	3	3	3	3	3	3
	RPM	2900	2900	2900	2875	2875	2875
	HP, Compressor 1	6	6	6	8	8	8
	Amps (RLA), Comp. 1	11.2/11.2	11.2/11.2	21.7/21.7	16.7/16.7	16.7/16.7	30.1/30.1
	Amps (LRA), Comp. 1	68/75	68/75	163/179	111/111	111/111	231/231
Condenser Motor	No.	1	1	1	2	2	2
	Volts	380/415	380/415	200/220	380/415	460	200/220
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/3	1/3	1/3
	Amps (FLA, each)	1.5/1.5	1.5/1.5	2.3/2.3	1.4/1.4	1.4/1.4	2.4/2.4
	Amps (LRA, each)	3.1/3.1	3.1/3.1	5.6/5.6	2.4/2.4	2.4/2.4	4.7/4.7
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	380/415	380/415	200/220	380/415	380/415	200/220
	Phase	3	3	3	3	3	3
	HP	3	3	3	3	3	3
	Amps (FLA, each)	7/7	7/7	13/13	7/7	7/7	13/13
	Amps (LRA, each)	38.1/38.1	38.1/38.1	74.5/74.5	38.1/38.1	38.1/38.1	74.5/74.5



UNITS WITH HEATER KITS—SLKL-B SERIES

380/415 VOLT, THREE PHASE, 50 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit							Separate Power Supply for Both Unit and Heater Kit						
Model No. SLKL-	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 380/415V	Heater kBTU/Hr @ 380/415V	Heater Amps @ 380/415V	Unit Min. Ckt. Ampacity @ 380/415V	Air Conditioner			Heater Kit			
							Over Current Protective Device Size Min./Max. 380V	Unit Min. Ckt. Ampacity @ 380/415V	Min. Ckt. Ampacity 380/415V	Max. Fuse Size 380/415V	Min. Circuit Ampacity 380/415V	Over Current Protective Device Size Min./Max. 380V	
												Min./Max. 380V	Min./Max. 415V
B090NL	No Heat	—	—	—	—	23/23	30/30	30/30	—	—	23/23	30/30	30/30
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	23/23	30/30	30/30	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	26/28	30/30	30/30	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	32/34	35/35	35/35	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	43/47	45/45	50/50	35/38	35/40	—	—	—
B120NL	CC40D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
	No Heat	—	—	—	—	31/31	35/45	35/45	—	—	31/31	35/45	35/45
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	31/31	35/45	35/45	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	31/31	35/45	35/45	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	31/31	35/45	35/45	23/25	25/25	—	—	—
B090NM	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	40/44	40/45	45/45	35/38	35/40	—	—	—
	CC40D	1	24.1/28.7	82.12/97.95	36.6/39.9	52/56	60/60	60/60	46/50	50/50	—	—	—
	CC50D	1	30.1/35.9	102.57/122.33	45.7/49.9	63/69	70/70	70/70	58/63	60/70	—	—	—
	No Heat	—	—	—	—	23/23	30/30	30/30	—	—	23/23	30/30	30/30
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	23/22	30/30	30/30	12/13	15/15	—	—	—
B120NM	CC15D	1	9/10.8	30.75/36.68	13.7/15	26/28	30/30	30/30	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	32/34	35/35	35/35	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	43/47	45/45	50/50	35/38	35/40	—	—	—
	CC40D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
	No Heat	—	—	—	—	31/31	35/45	35/45	—	—	31/31	35/45	35/45
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	31/31	35/45	35/45	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	31/31	35/45	35/45	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	31/31	35/45	35/45	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	40/44	40/45	45/45	35/38	35/40	—	—	—
	CC40D	1	24.1/28.7	82.12/97.95	36.6/39.9	52/56	60/60	60/60	46/50	50/50	—	—	—
	CC50D	1	30.1/35.9	102.57/122.33	45.7/49.9	63/69	70/70	70/70	58/63	60/70	—	—	—

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

UNITS WITH HEATER KITS—SLKL-B SERIES



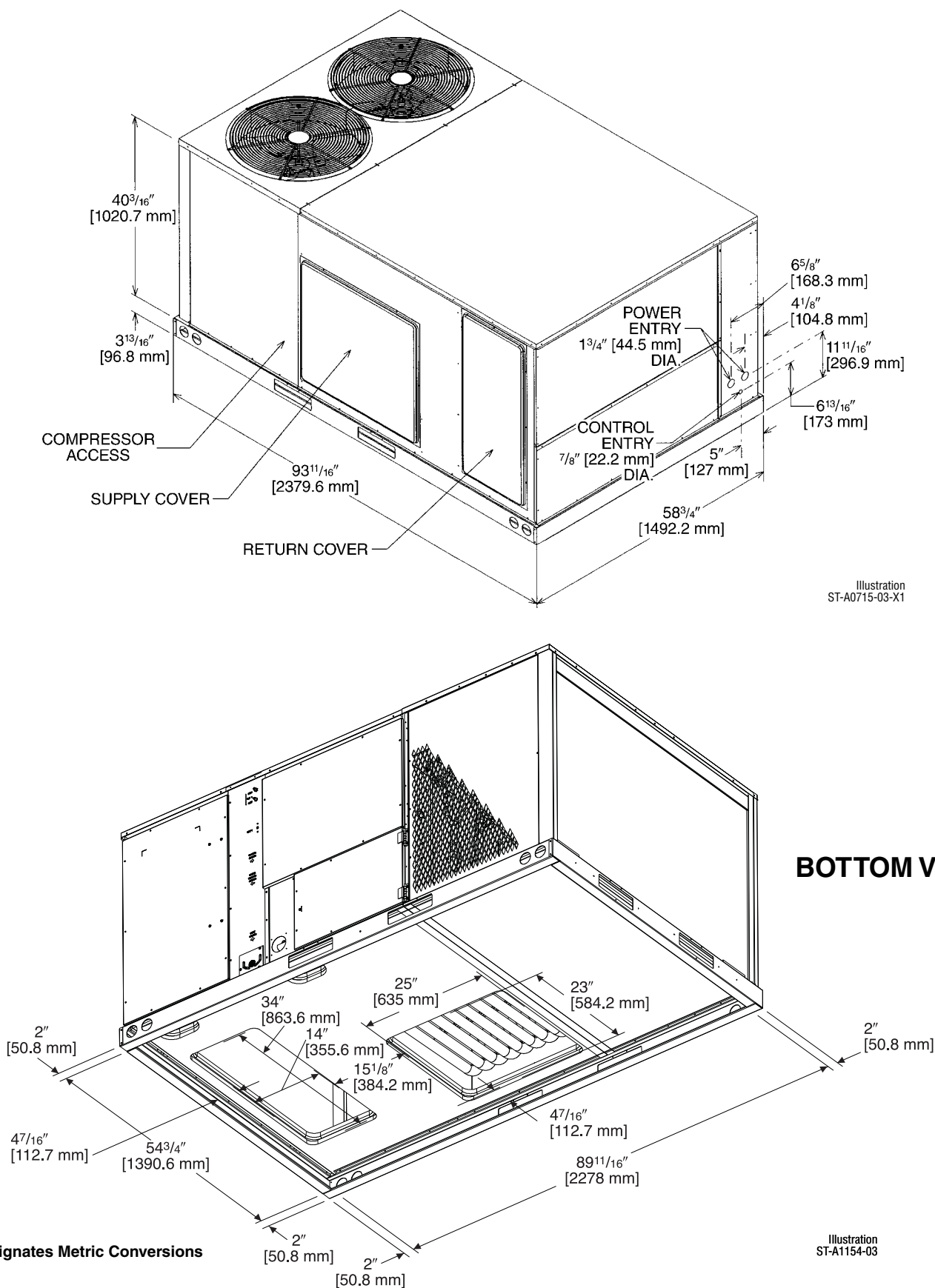
200/220 VOLT, THREE PHASE, 50 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit							Separate Power Supply for Both Unit and Heater Kit						
Model No. SLKL-	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 200/220V	Heater kBTU/Hr @ 200/220V	Heater Amps @ 200/220V	Air Conditioner				Heater Kit			
						Unit Min. Ckt. Ampacity @ 200/220V	Over Current Protective Device Size		Min. Ckt. Ampacity 200/220V	Max. Fuse Size 200/220V	Air Conditioner		Over Current Protective Device Size Min./Max. 220V
							Min./Max. 200V	Min./Max. 220V			Min. Ckt. Ampacity 200/220V	Min./Max. 200V	
B090PL	No Heat	—	—	—	—	43/43	50/60	50/60	—	—	43/43	50/60	50/60
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	43/43	50/60	50/60	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	53/56	60/60	60/60	37/40	40/40	—	—	—
	CC20C	1	13.3/16.1	45.45/55.05	38.5/42.4	65/70	70/70	70/70	49/53	50/60	—	—	—
	CC30C	1	20/24.2	68.18/82.58	57.7/63.5	89/96	90/90	100/100	73/80	80/80	—	—	—
B120PL	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
	No Heat	—	—	—	—	56/56	70/80	70/80	—	—	56/56	70/80	70/80
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	56/56	70/80	70/80	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	56/56	70/80	70/80	37/40	40/40	—	—	—
	CC20C	1	13.3/16.1	45.45/55.05	38.5/42.4	60/65	70/80	70/80	49/53	50/60	—	—	—
	CC30C	1	20/24.2	68.18/82.58	57.7/63.5	84/91	90/90	100/100	73/80	80/80	—	—	—
	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	108/118	110/110	125/125	97/106	100/110	—	—	—
	CC50C	1	33.3/40.3	113.75/137.63	96.2/105.9	132/144	150/150	150/150	121/133	125/150	—	—	—

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

+ = Field installed only.



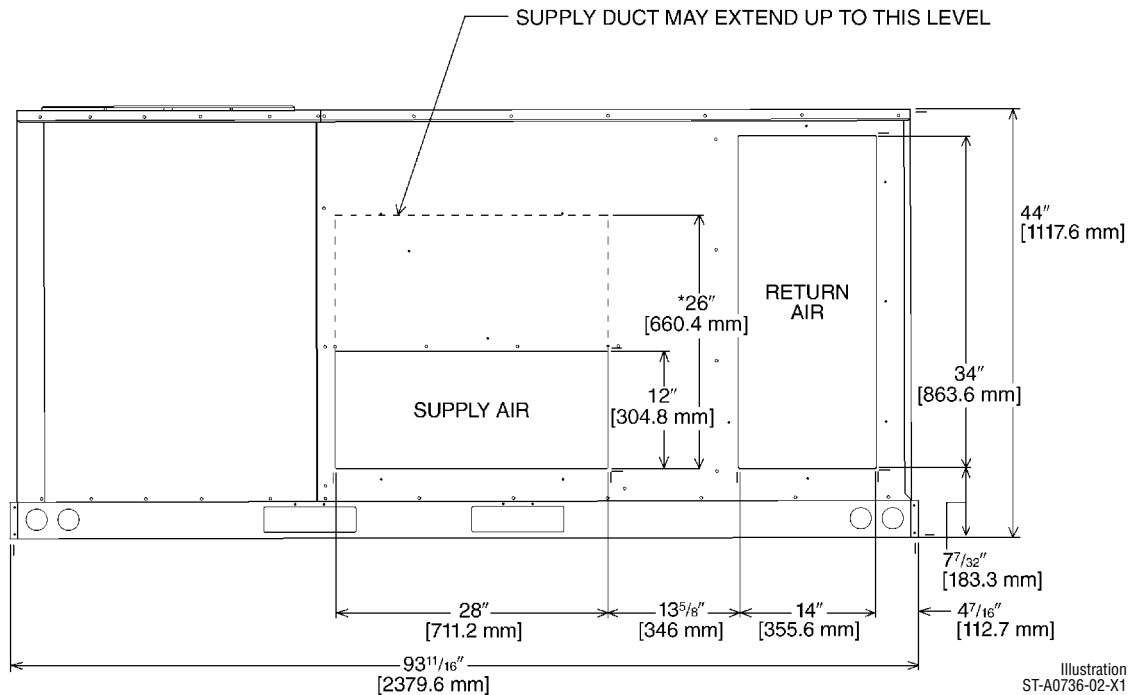
PACKAGE AIR CONDITIONER



[] Designates Metric Conversions

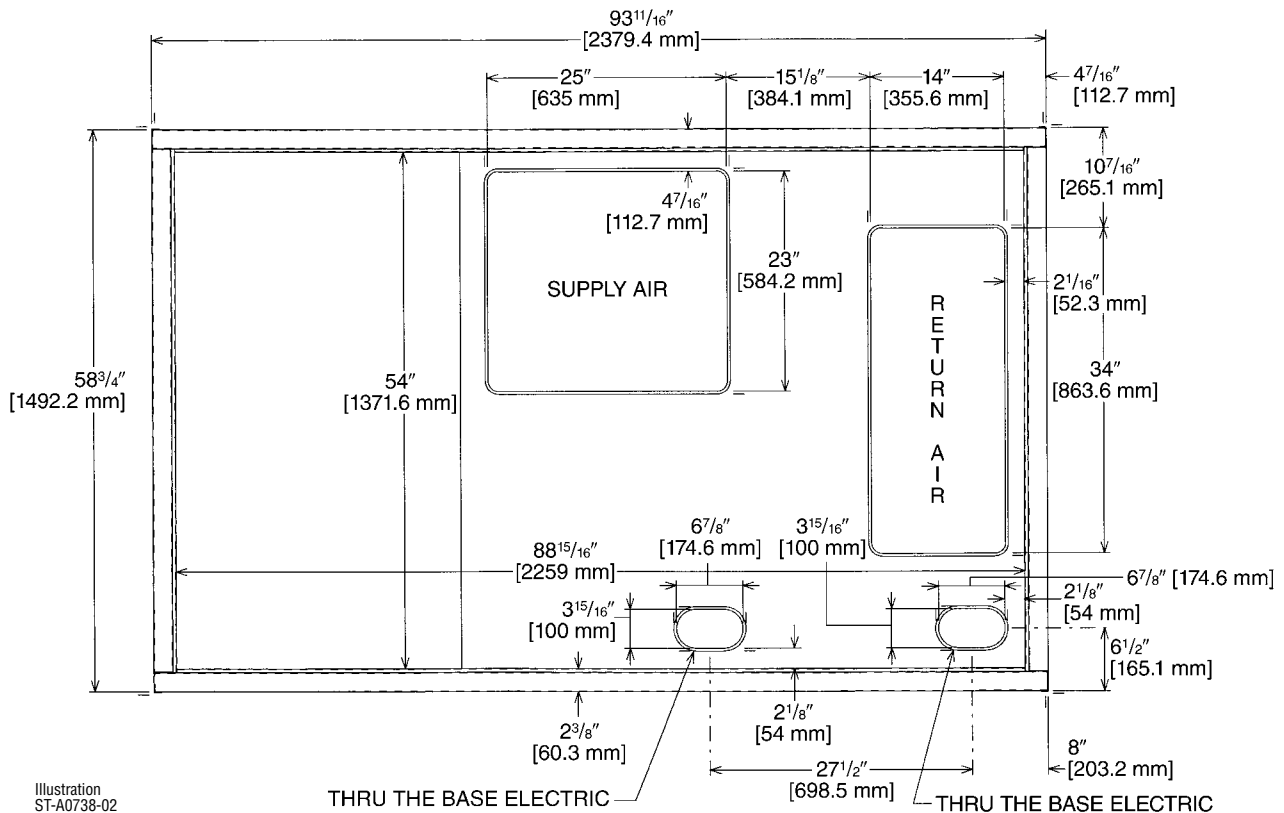
PACKAGE AIR CONDITIONER

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



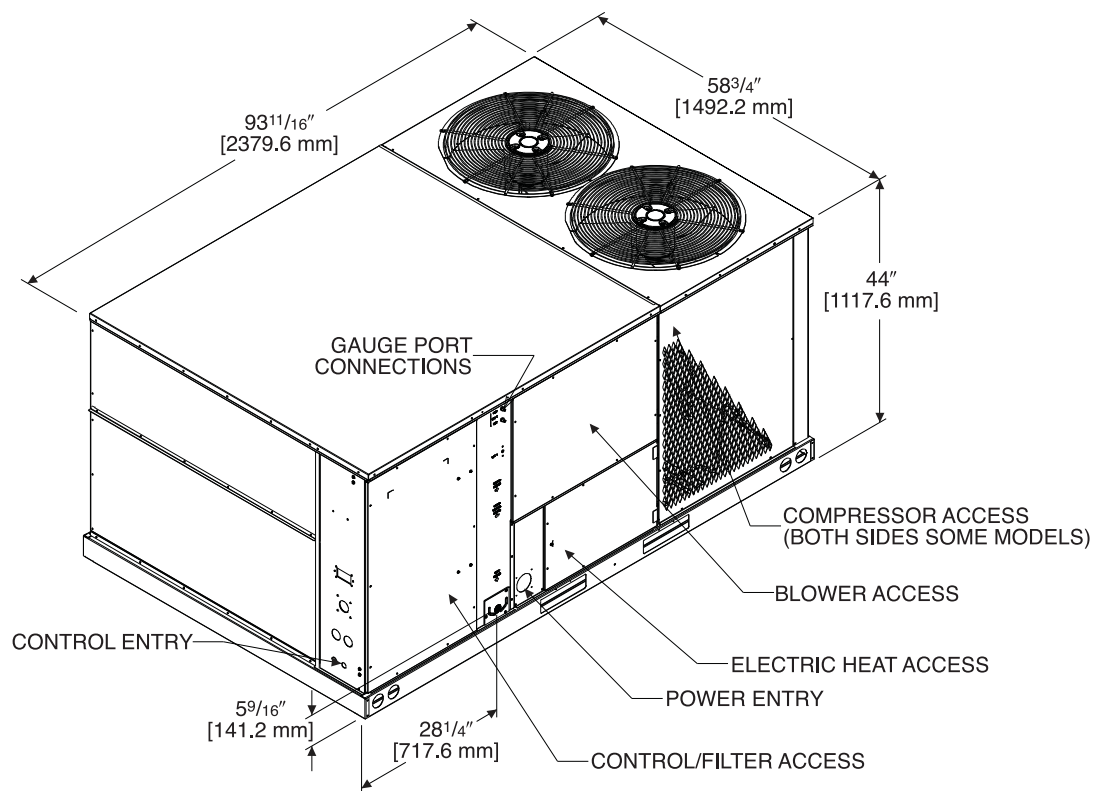
*RECOMMENDED DUCT DIMENSIONS ARE 26"

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS





PACKAGE AIR CONDITIONER



[] Designates Metric Conversions

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%

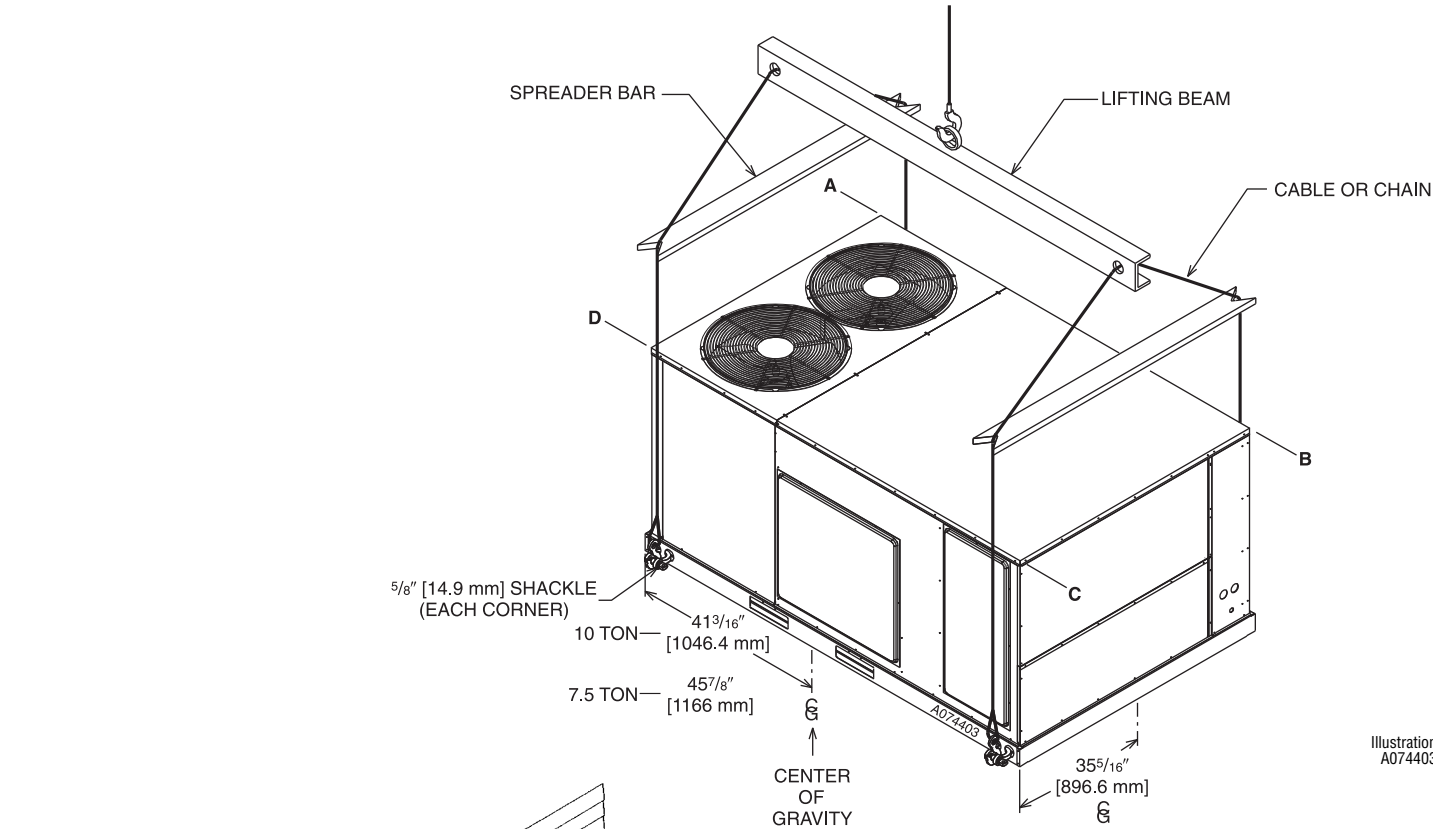
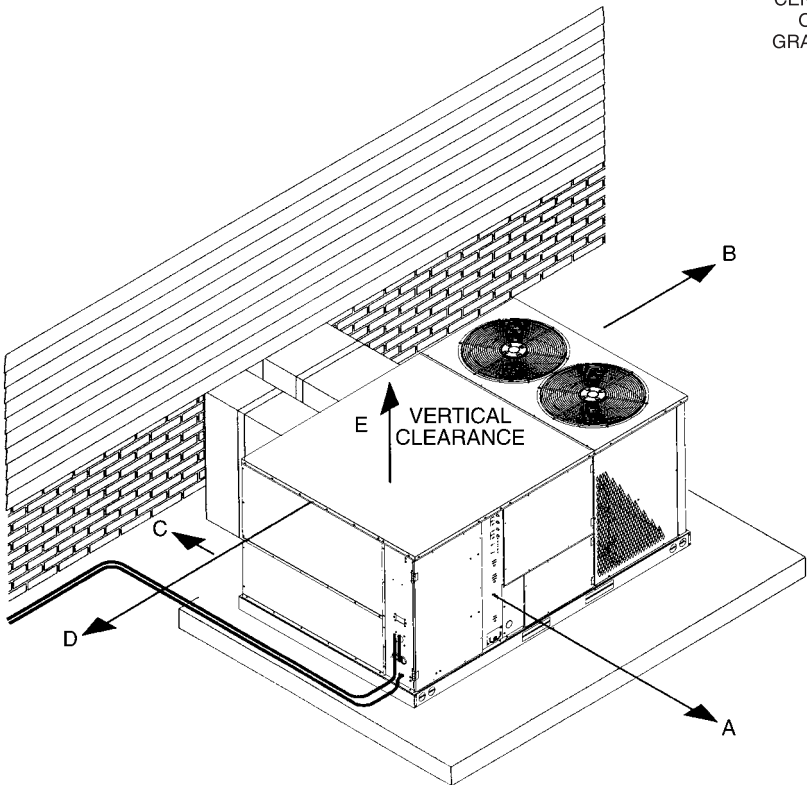


Illustration
A074403

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 (T11-001)			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	RXRJ-PDCM3	90 [40.8]	81 [36.7]	Yes
Economizer w/Single Enthalpy and Smoke Detector	RXRD-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	RXRD-RDCM3	94 [42.6]	89 [40.4]	No
Carbon Dioxide Sensor	RXRX-AR02	3 [1.4]	2 [1.0]	No
Manual Fresh Air (Left Panel Mounted)	RXRF-KDA1	38 [17.2]	31 [14.0]	No
Manual Fresh Air (Return Panel)	RXRF-JDA1	26 [11.8]	21 [9.5]	No
Motorized Fresh Air (Return Panel)	RXRF-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	RXRX-AAD02A	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



100-Series *
Non-Programmable



200-Series *
Programmable



300-Series *
Deluxe
Programmable



400-Series *
Special Applications/
Programmable

500-Series *
Communicating/
Programmable

Brand	Unique Model Number Prefix	Descriptor (3 Characters)	Series (3 Characters)	System (2 Characters)	Type (2 Characters)
RHC	-	TST	101	GE	MS
RHC=Rheem		TST=Thermostat	100=Non-Programmable 200=Programmable 300=Deluxe Programmable 400=Special Applications/ Programmable 500=Communicating/ Programmable	GE=Gas/Oil/Electric HP=Heat Pump MD=Modulating Furnace DF=Dual Fuel UN=Universal AC/HP/GE 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 T11-001.

ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

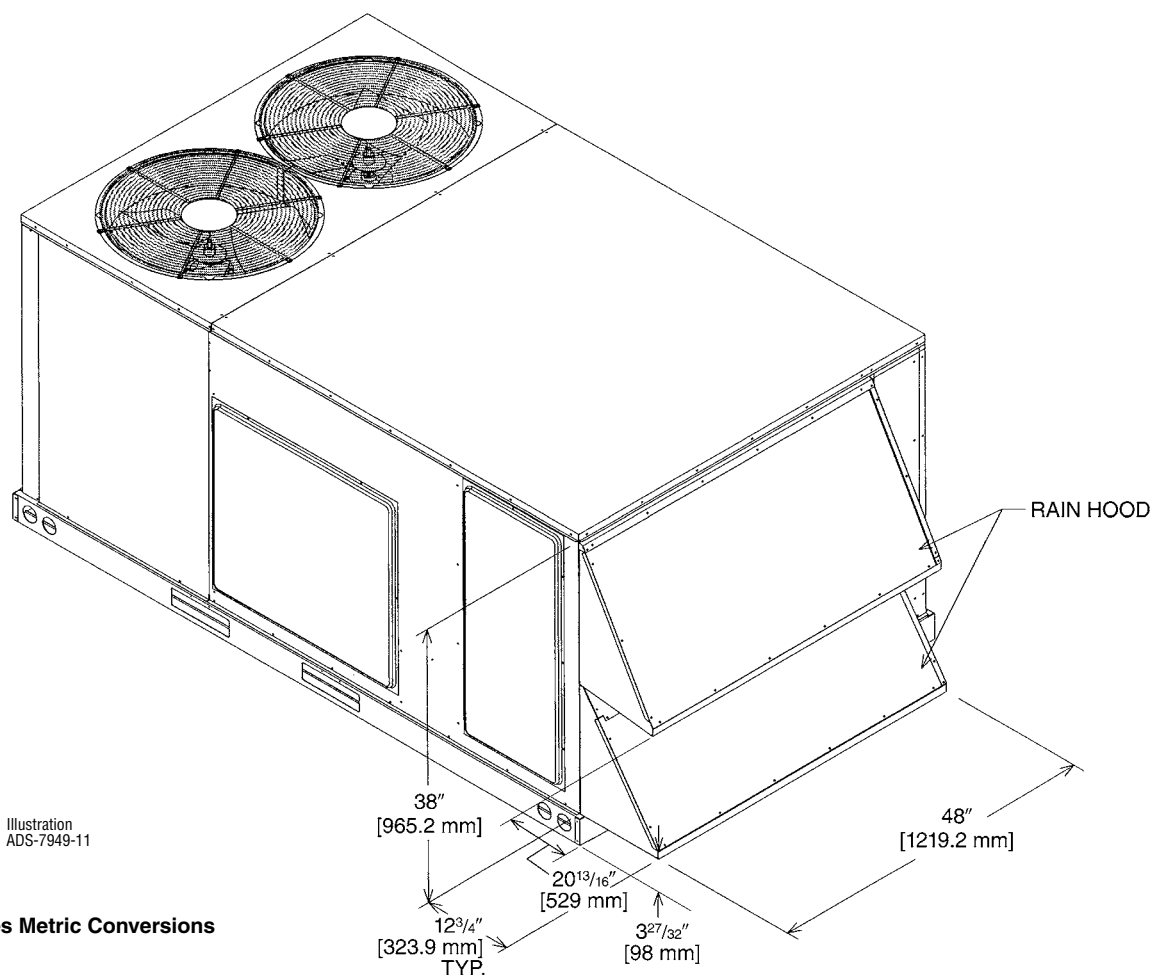
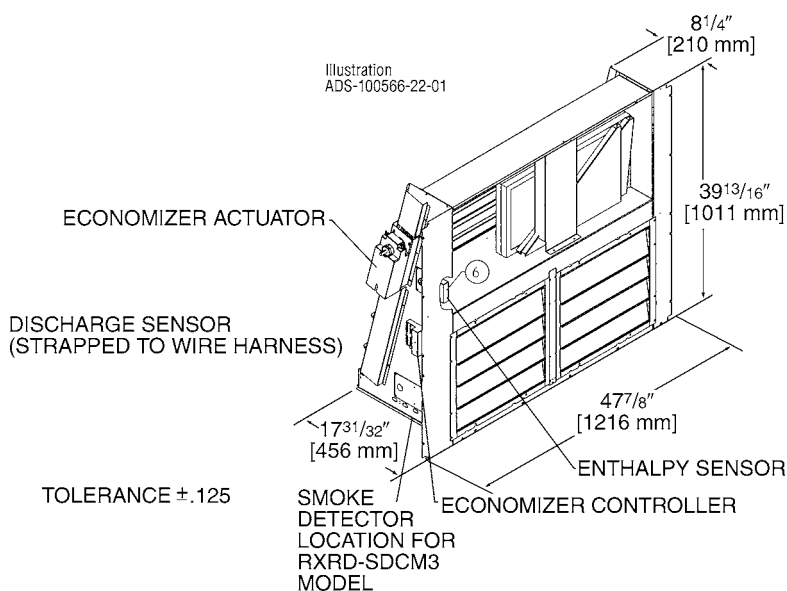
Use to Select Factory Installed Options Only

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

RXXRX-AV02—Dual Enthalpy Upgrade Kit

RXXRX-AR02—Optional Wall-Mounted CO₂ Sensor

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



[] Designates Metric Conversions

ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

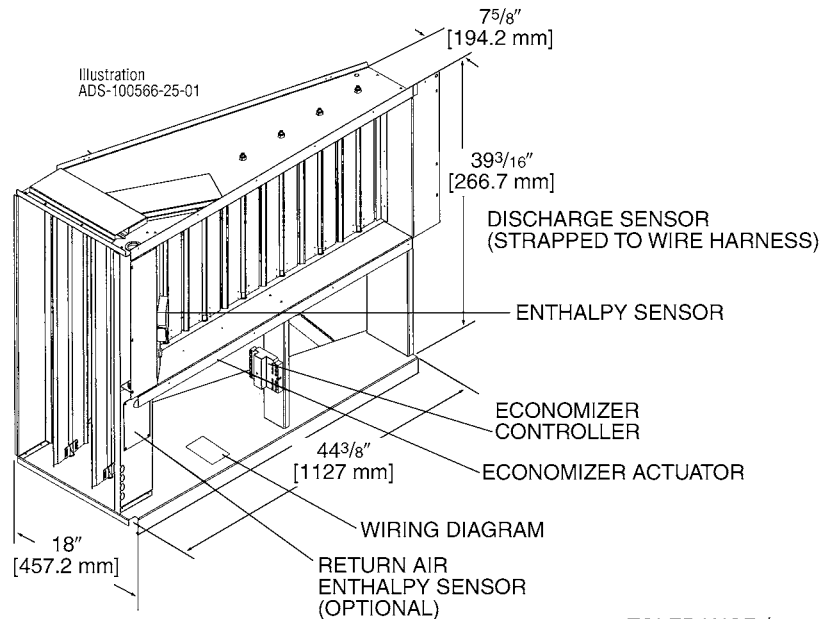
Field Installed Only

RXRD-RDCM3—Single Enthalpy (Outdoor)

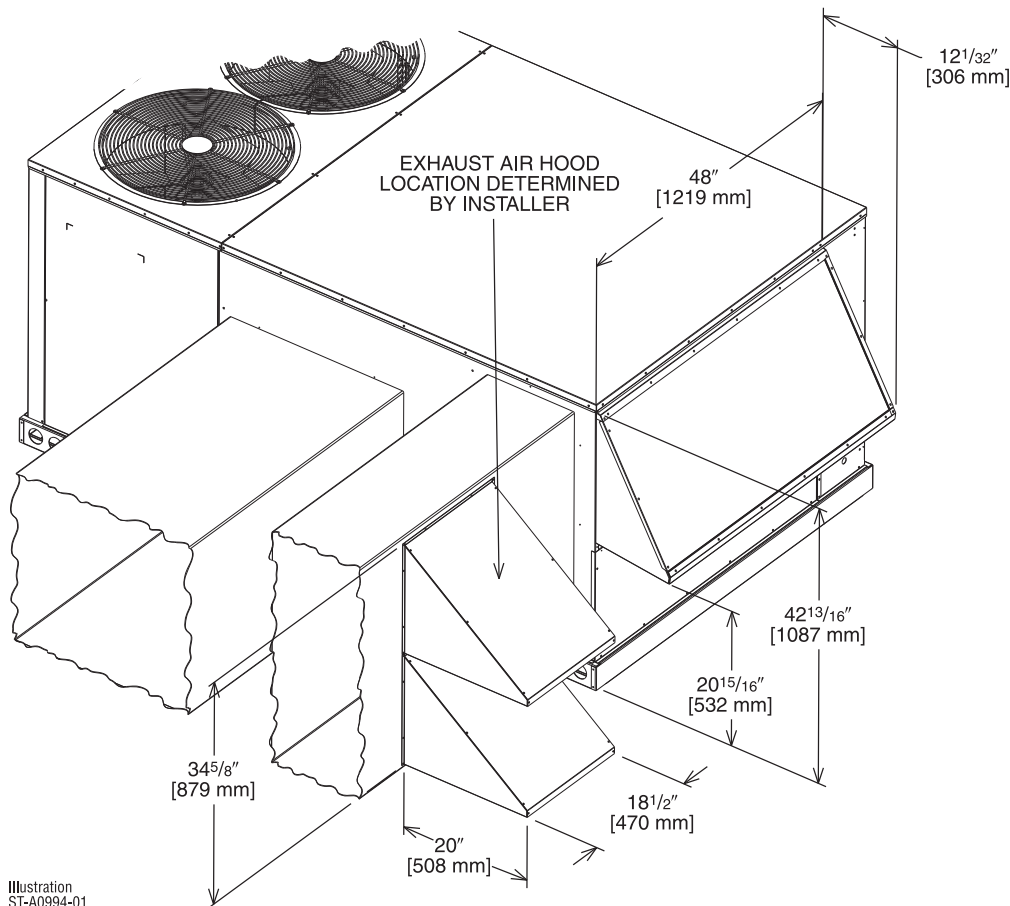
RXXR-AV02—Dual Enthalpy Upgrade Kit

RXXR-AR02—Wall-mounted CO₂ Sensor

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



TOLERANCE ± .125



[] Designates Metric Conversions

FRESH AIR DAMPER

MOTORIZED DAMPER KIT
RXXR-AWO2
 (Motor Kit for RXRF-KDA1)

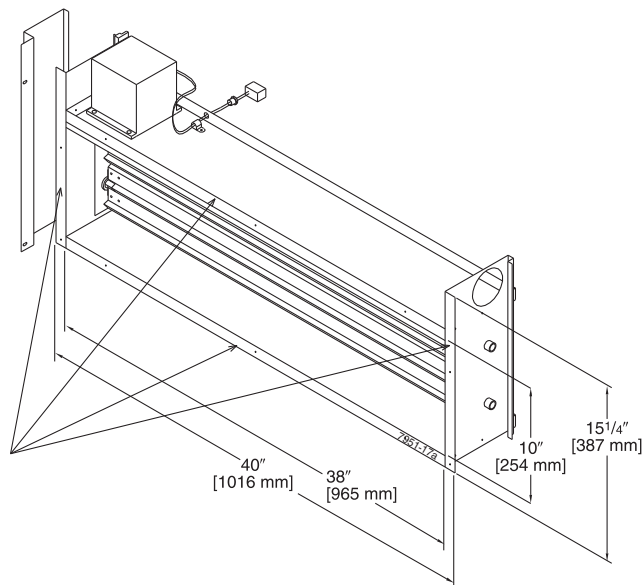


Illustration
ST-7951-17

[] Designates Metric Conversions

RXRF-KDA1 (Manual)

**DOWNFLOW OR
HORIZONTAL APPLICATION**

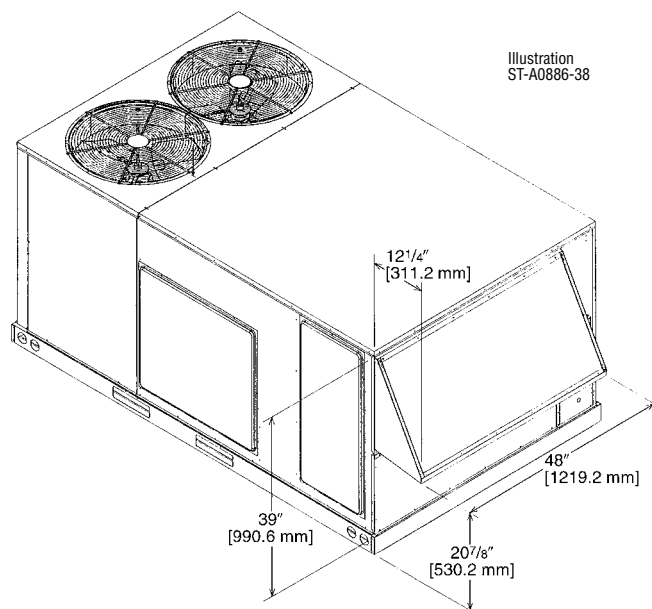


Illustration
ST-A0886-38

FRESH AIR DAMPER (Cont.)

RXRF-JDA1 (Manual)
RXRF-JDB1 (Motorized)

DOWNFLOW APPLICATION

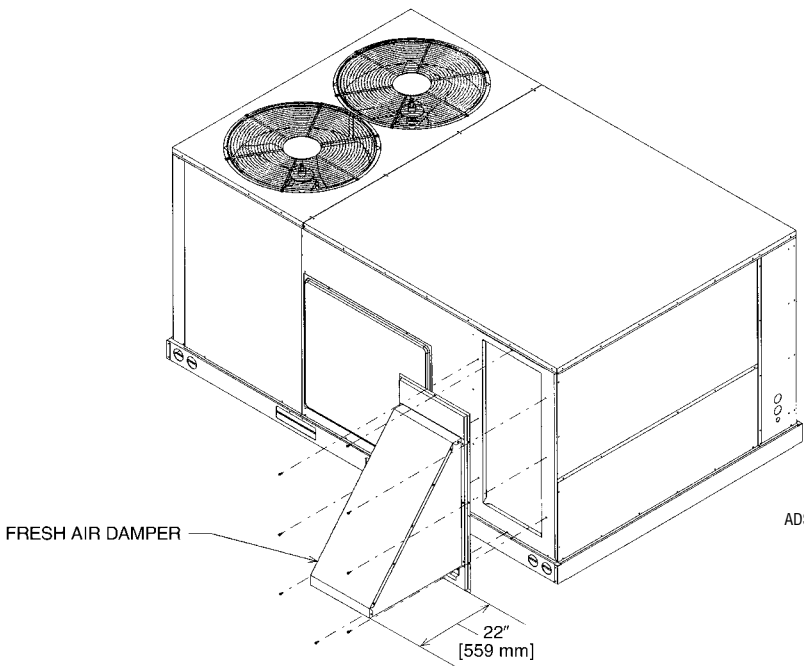
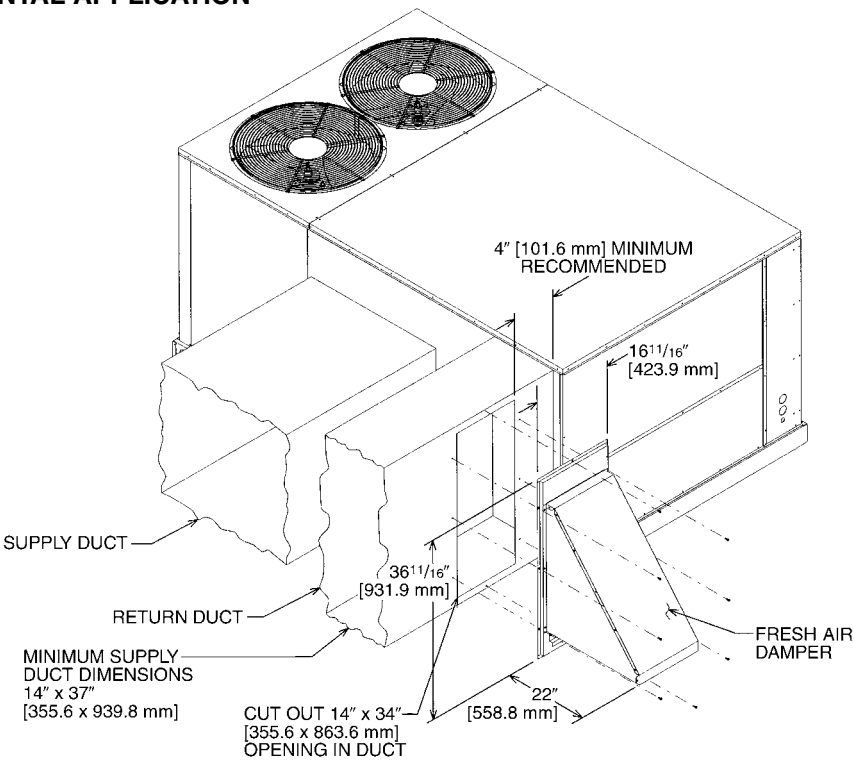


Illustration
ADS-7937-58

HORIZONTAL APPLICATION

Illustration
ST-A0901-01



[] Designates Metric Conversions

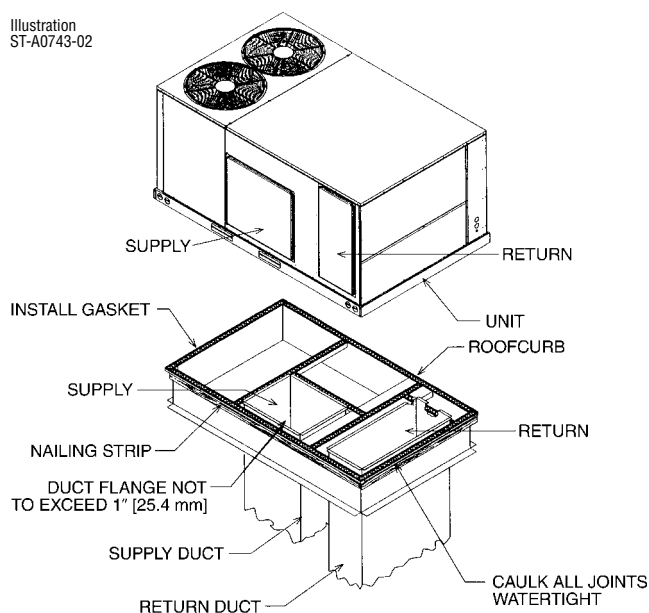
ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on 7.5 & 10 ton [26.4 & 35.2 kW] SLKL-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] Nailers 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

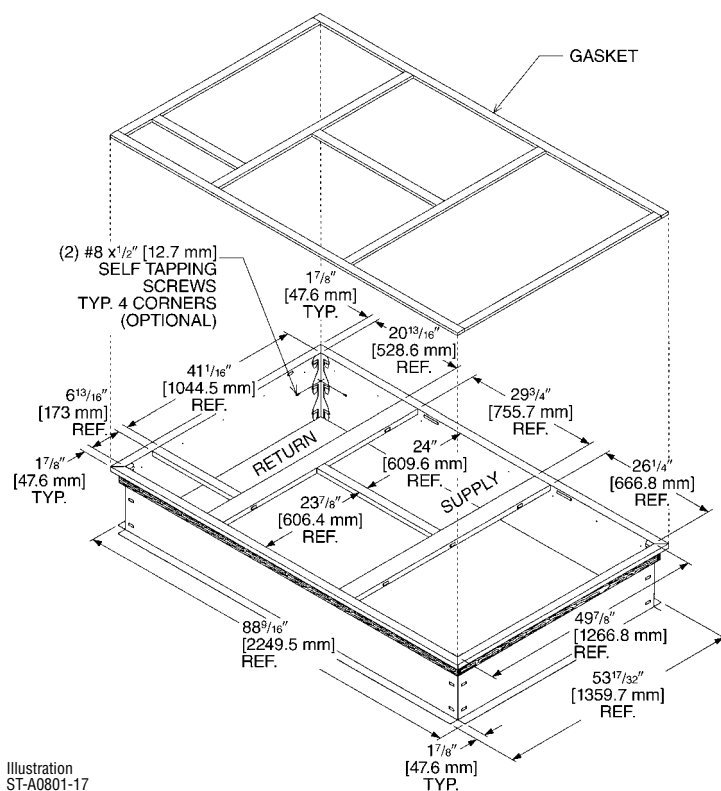
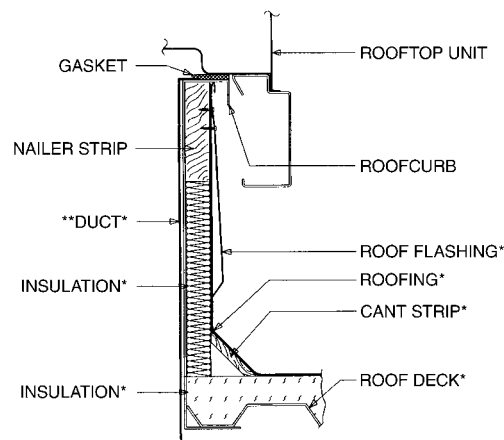


Illustration
ST-A0801-17



*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

ROOFCURB ADAPTERS

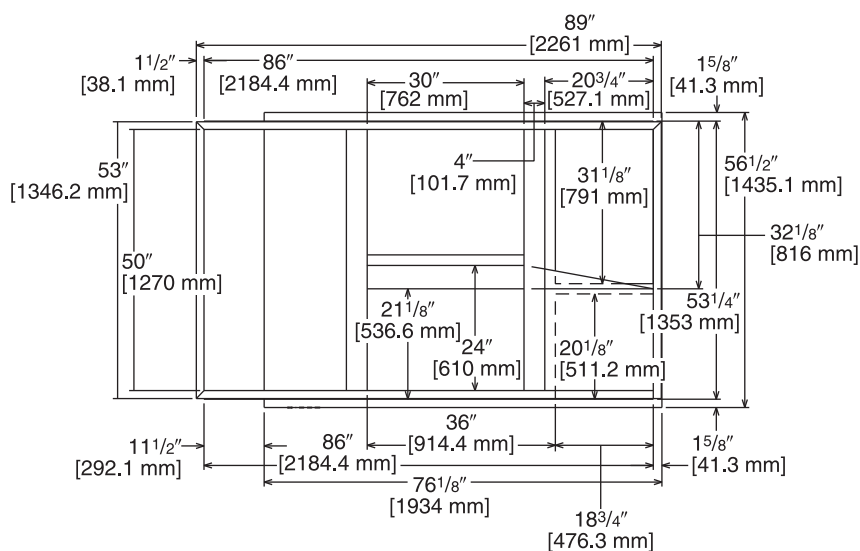
OLD MODELS	OLD ROOFCURB	ROOFCURB ADAPTER	NEW MODELS (All Share Common Cabinet)
(-)RCF, (-)REF-075/076 (-)RGF-150075, (-)RGF-131076 (-)RGF-201076	RXRK-E50	RXRX-CDCE50	(S)LKL-B090 (S)LKL-B120
(-)RGF-200075 (-)RGG, (-)REG, (-)RCG-075 (-)RGF, (-)REF, (-)RCF-085 (-)RGF, (-)REF, (-)RCF-100 (-)RGG, (-)REG, (-)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.
SLKL- B090 and B120 on same roofcurb as the SLKB- A090 and A120, SLMB- A090 and A120 SLNB- A090 and A120.

ROOFCURB ADAPTERS (Cont.)

RXRX-CDCE50

Illustration
ADS-7952-02
Sheet 2



TOP VIEW

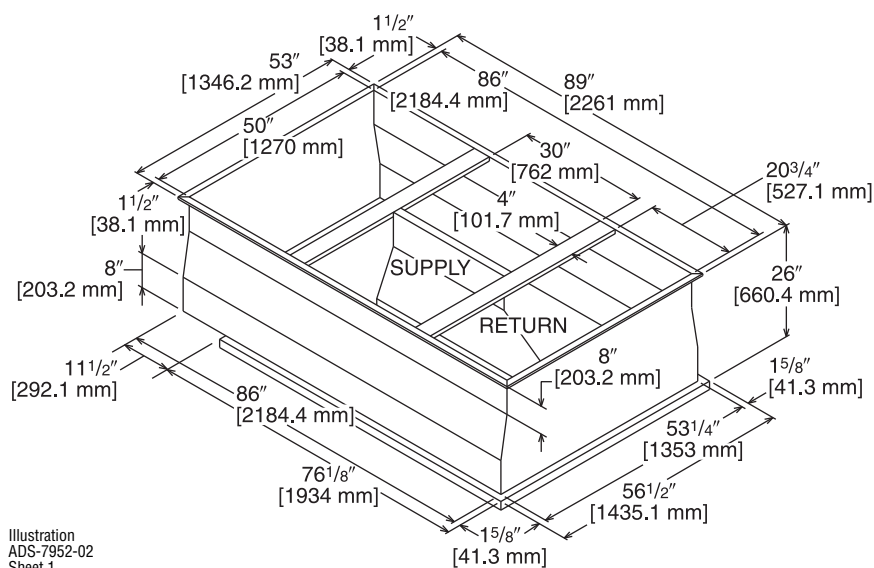


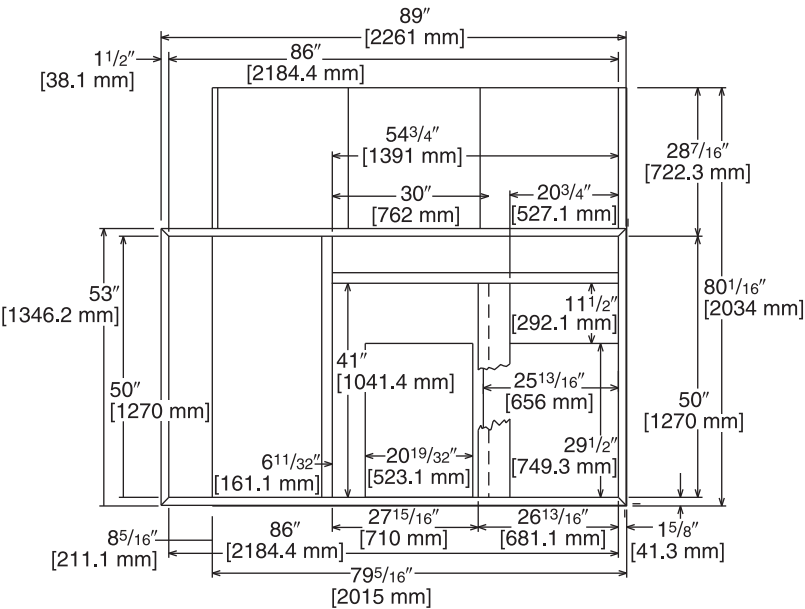
Illustration
ADS-7952-02
Sheet 1

[] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

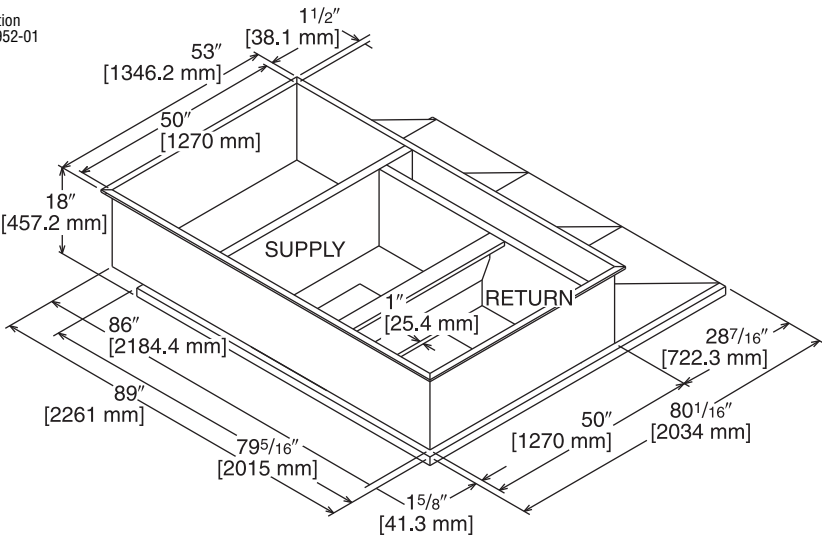
RXRX-CFCE54

Illustration
ADS-7952-01
Sheet 2



TOP VIEW

Illustration
ADS-7952-01
Sheet 1

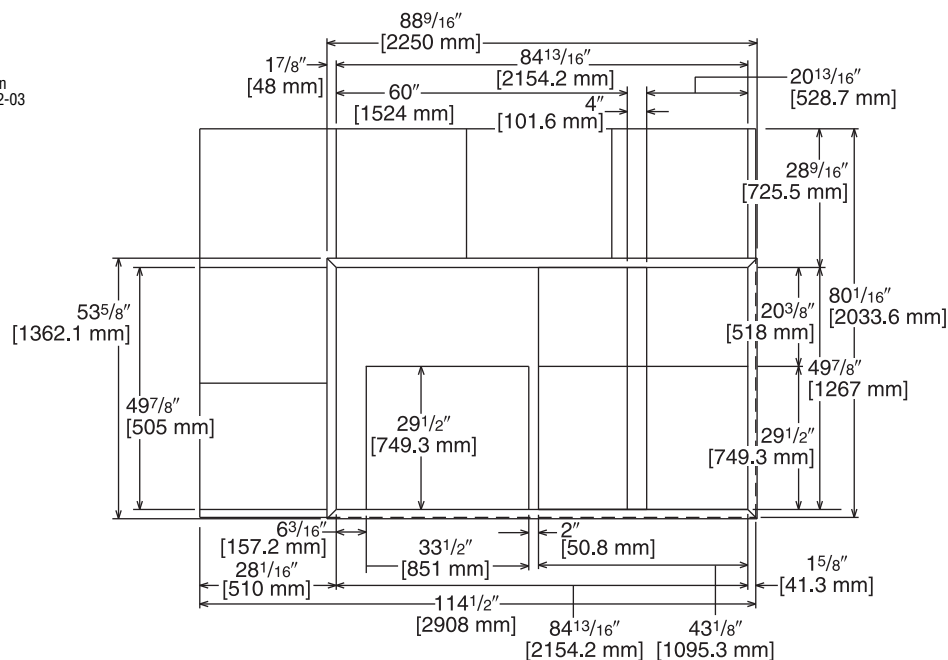


[] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

RXRX-CFCE56

Illustration
ADS-7952-03
Sheet 2



TOP VIEW

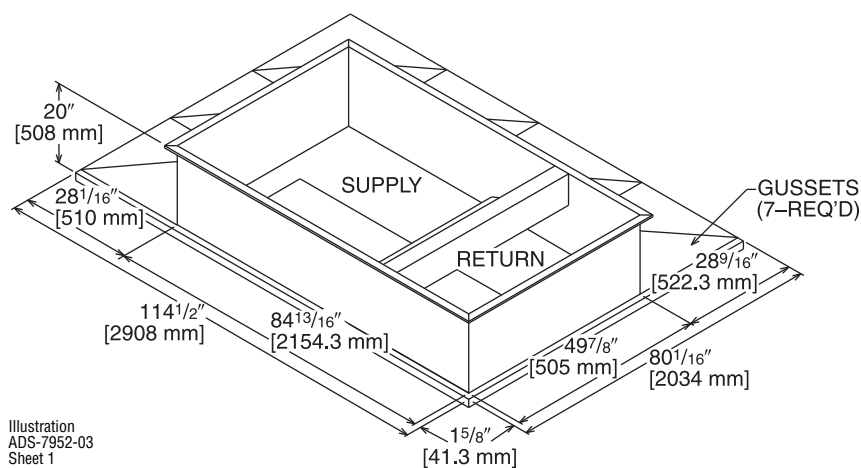
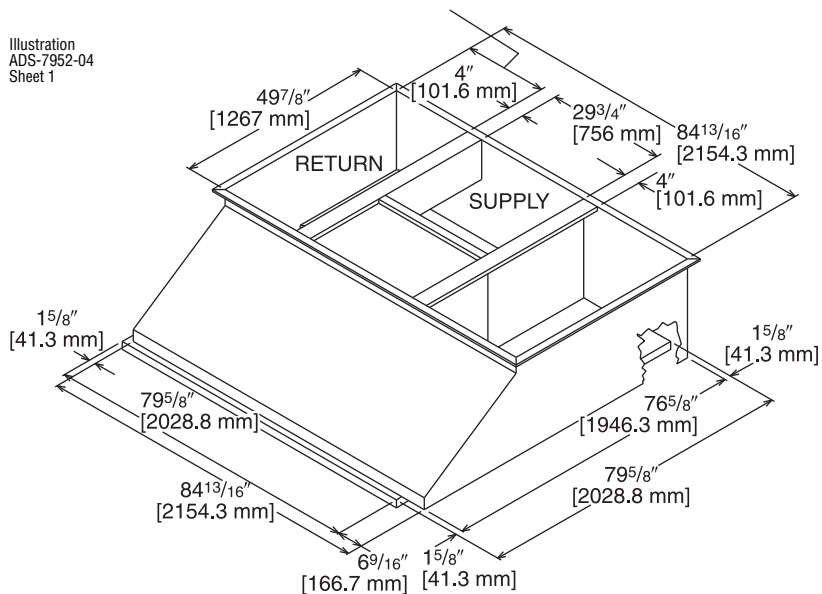
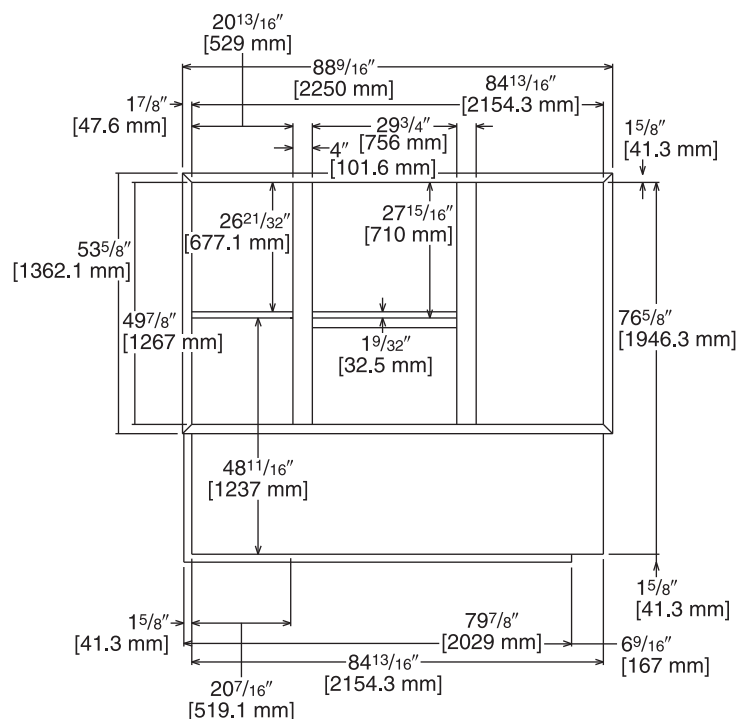


Illustration
ADS-7952-03
Sheet 1

[] Designates Metric Conversions

RXRX-CGCC12



CONCENTRIC DIFFUSER APPLICATION

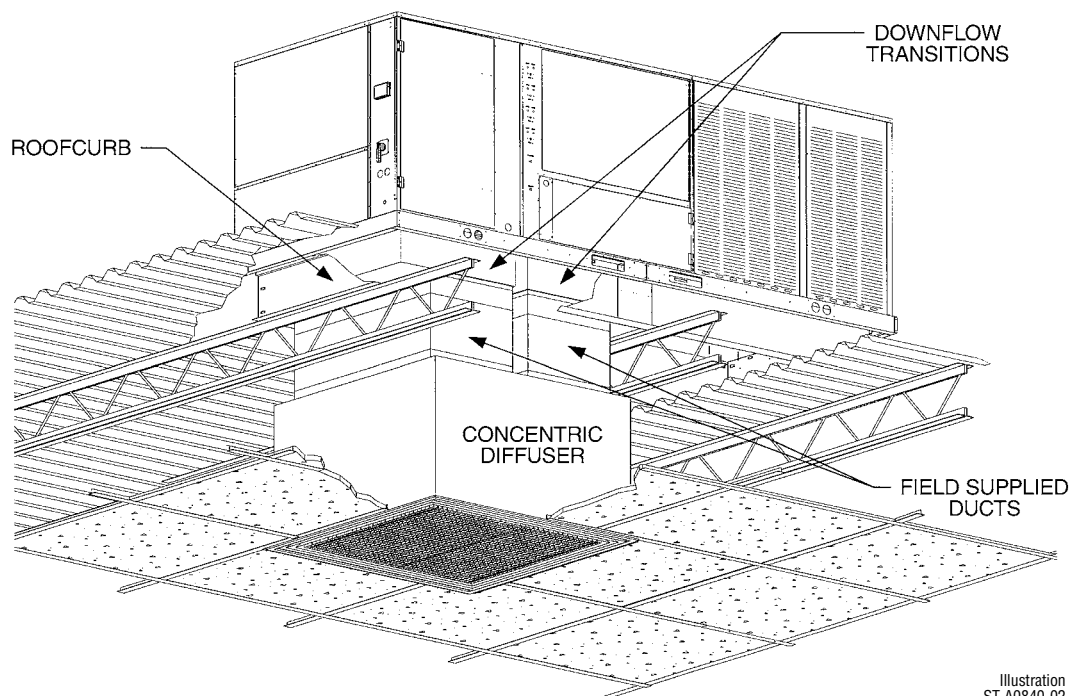


Illustration
ST-A0840-02

DOWNFLOW TRANSITION DRAWINGS

RXMC-CE05

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

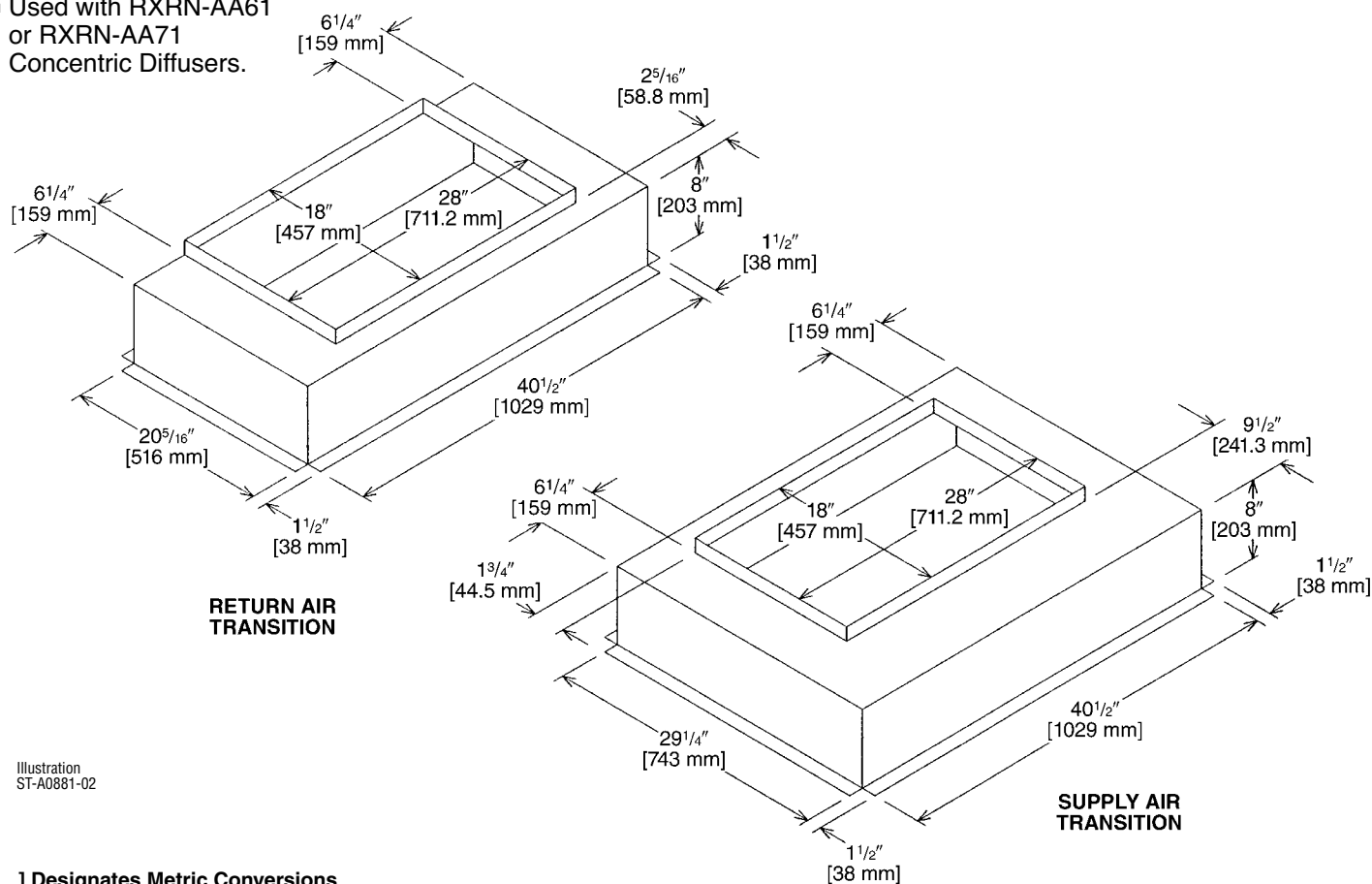


Illustration
ST-A0881-02

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CF06

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

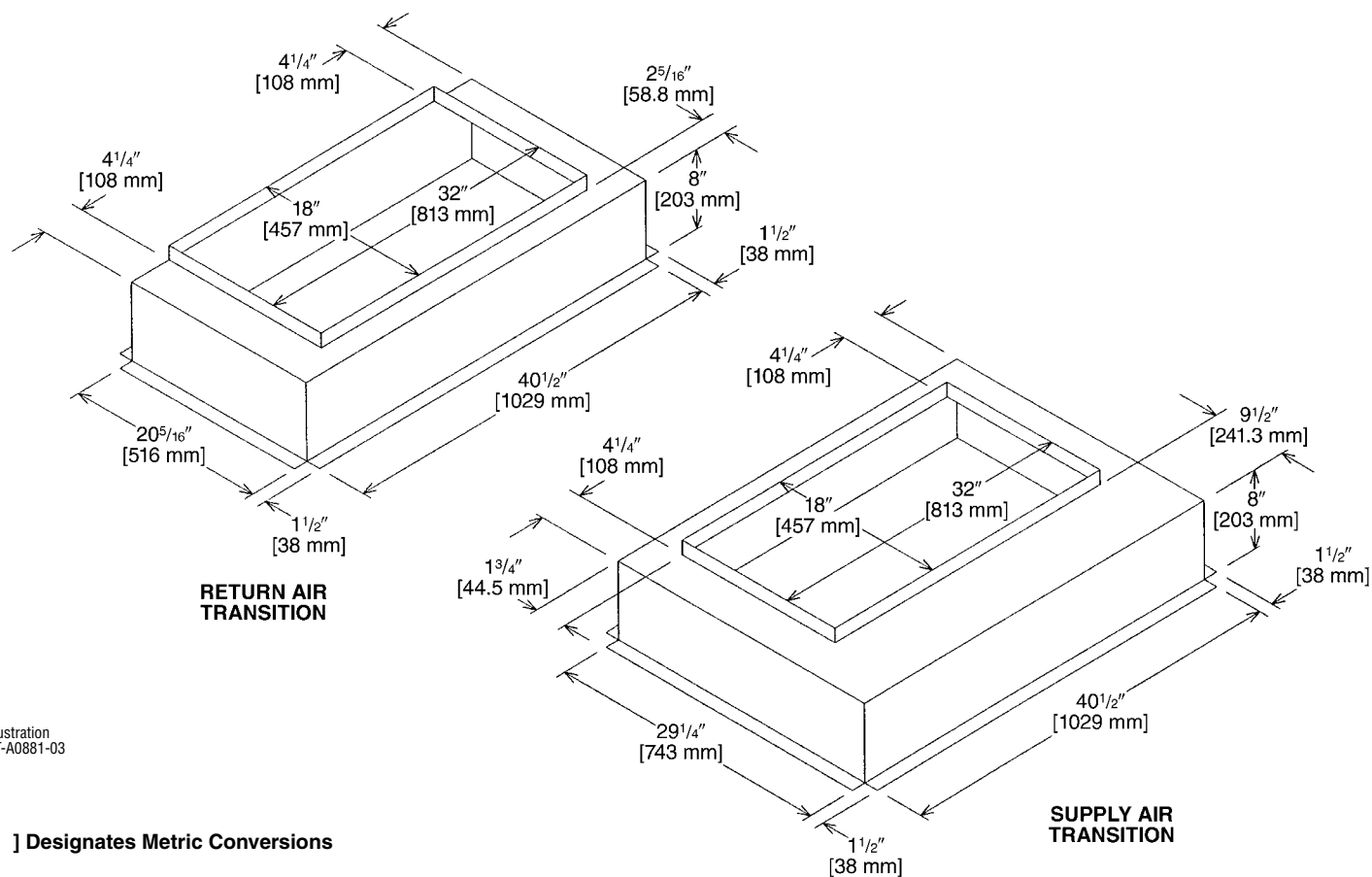


Illustration
ST-A0881-03

[] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CD04

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

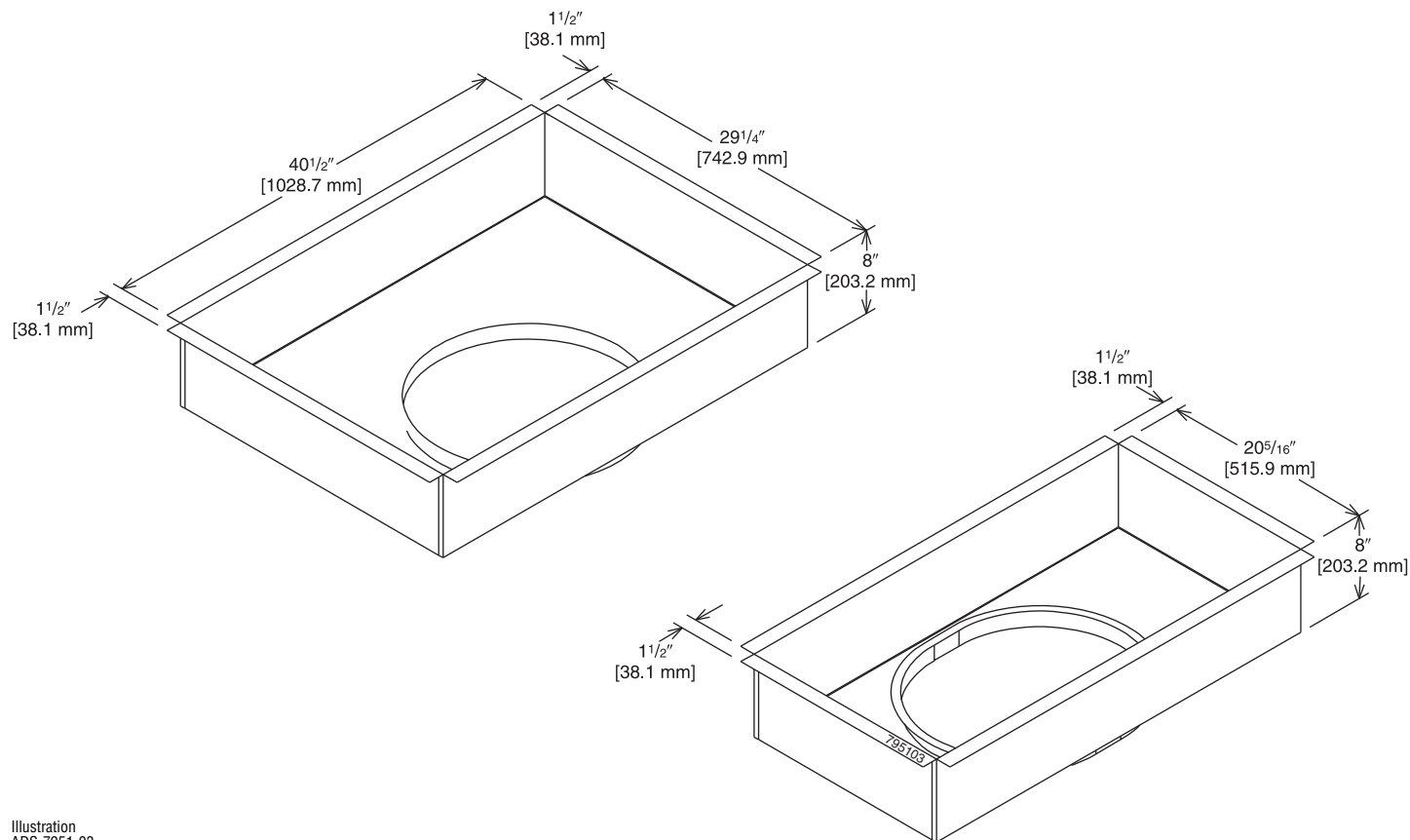


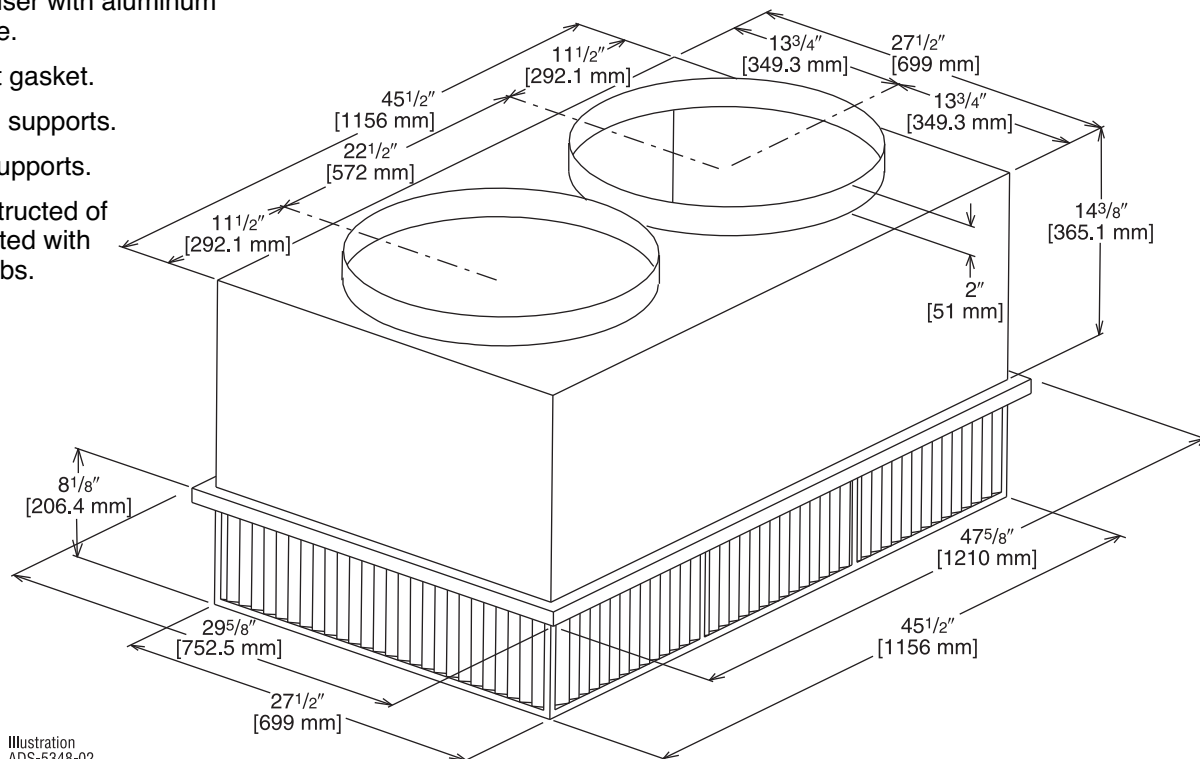
Illustration
ADS-7951-03

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.



ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Static Pressure in. w.c. [kPa]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dB(A))
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.

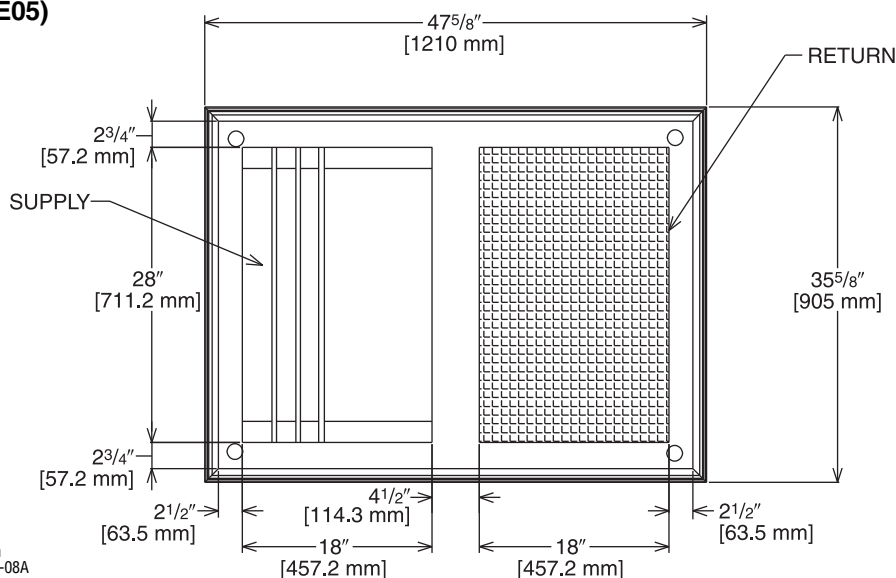


Illustration
ADS-7951-08A

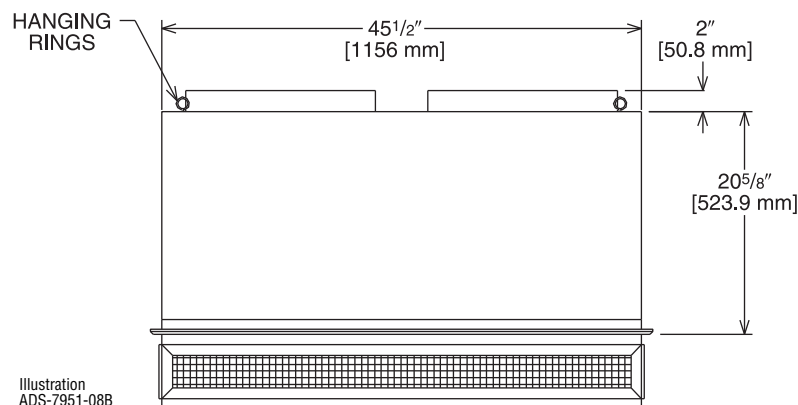


Illustration
ADS-7951-08B

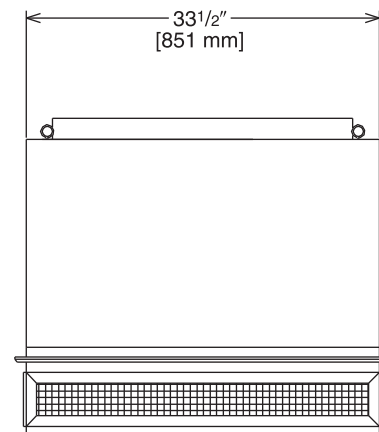


Illustration
ADS-7951-08C

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dB)
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.

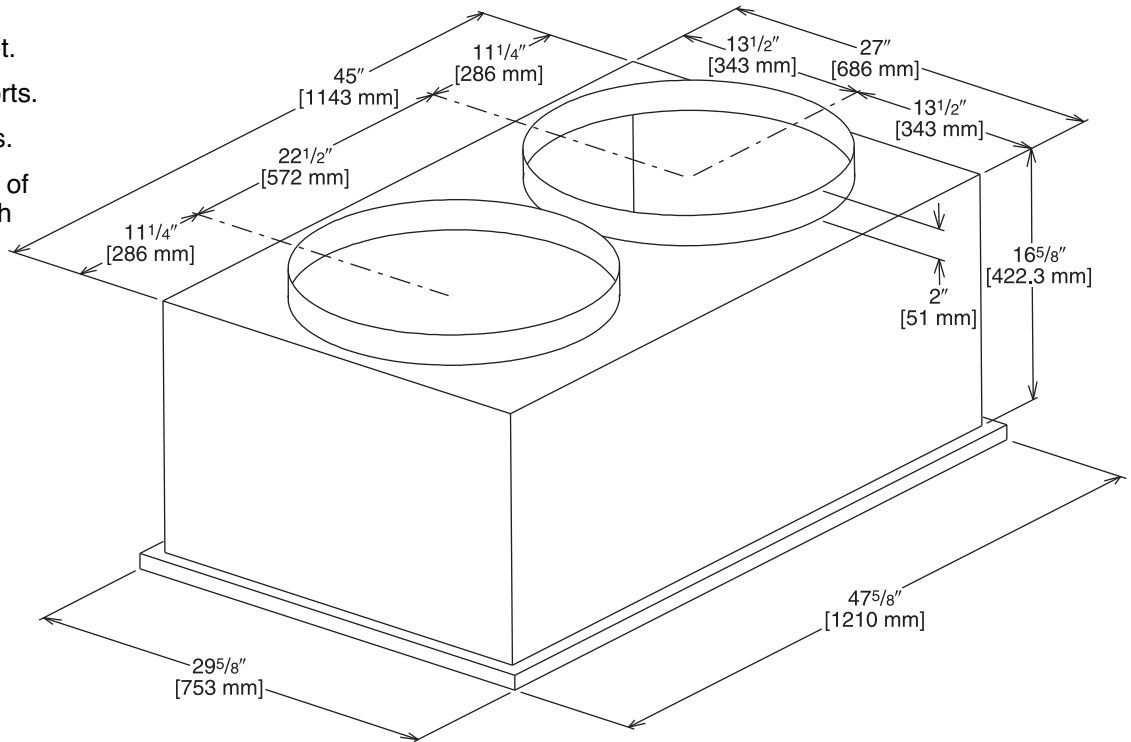


Illustration
ADS-5348-04

ENGINEERING DATA^①

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

NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

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

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

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

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

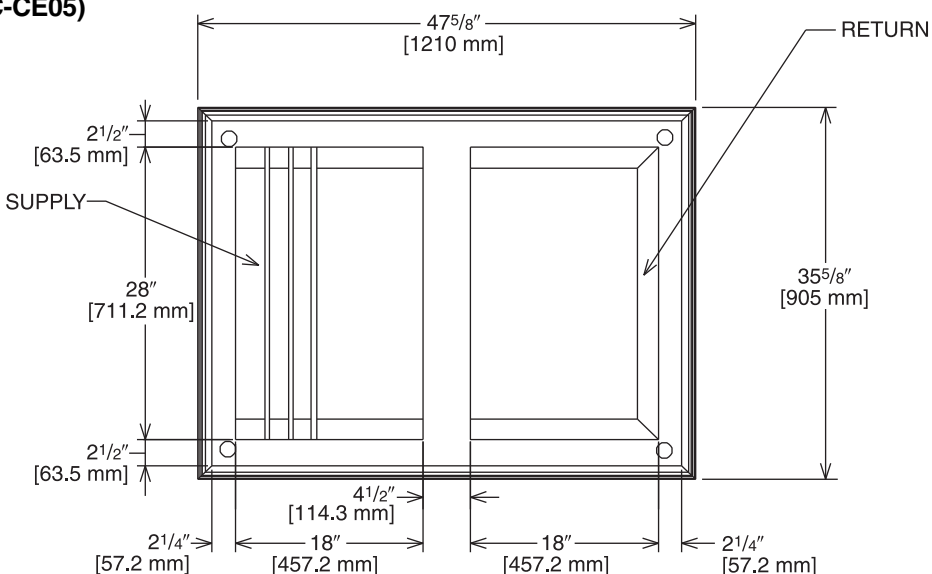


Illustration
ADS-7951-06A

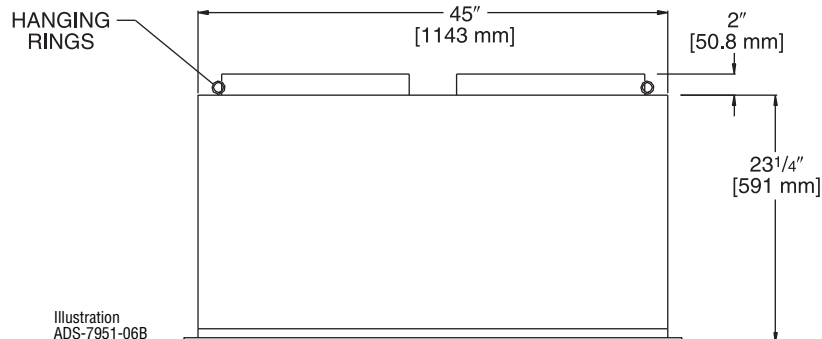


Illustration
ADS-7951-06B

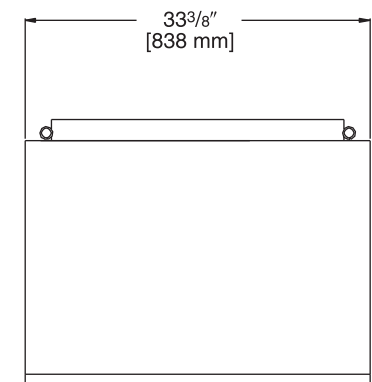


Illustration
ADS-7951-06C

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ^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. Service pressure ports, shall be factory-installed as standard.

Evaporator Coils and Micro Channel 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 micro channel. 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 toolless 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.



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 water-tight 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.

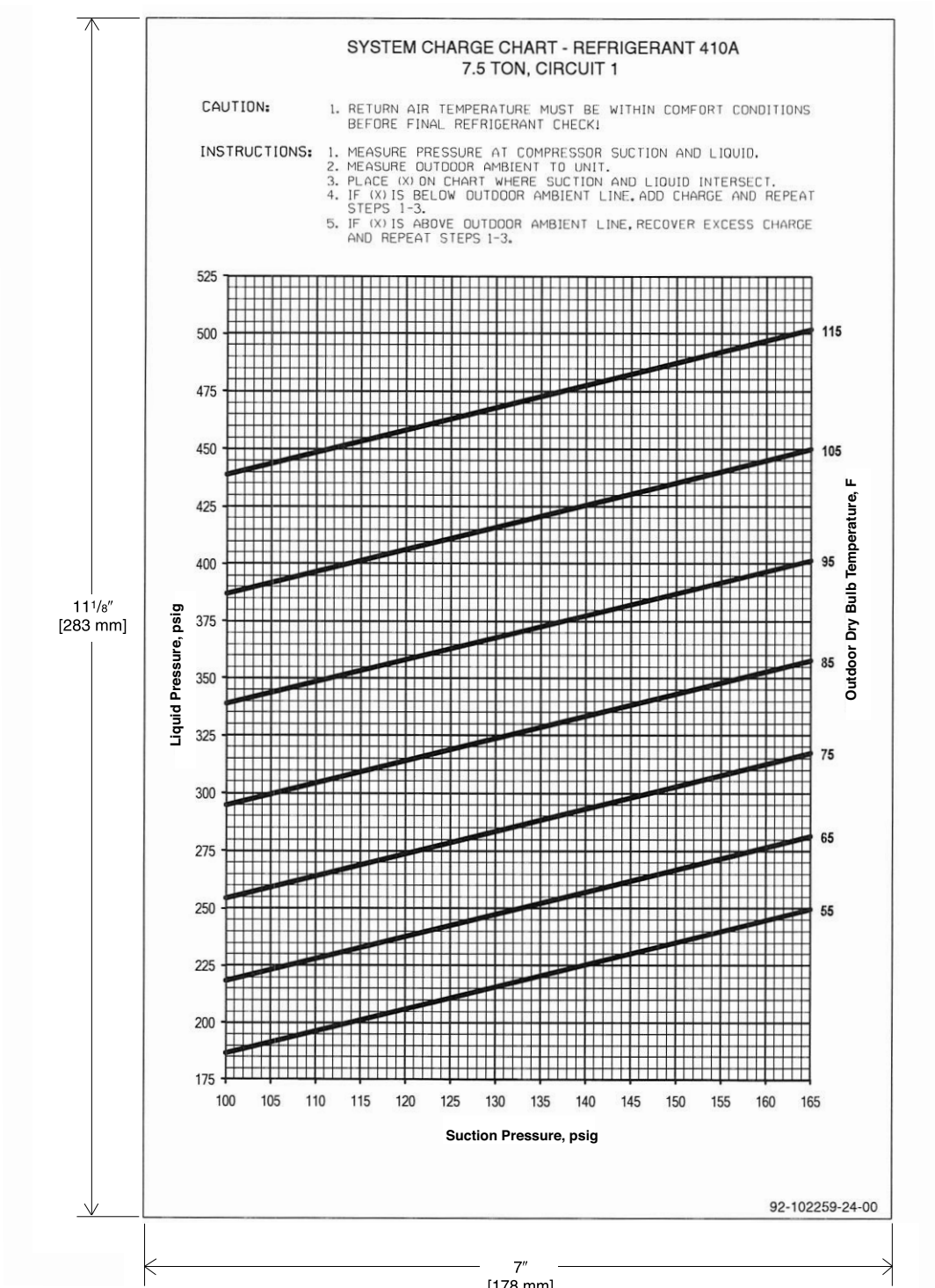
Thermostats—Two stage heating and cooling operation shall be available, for field installation, in either manual or automatic changeover. Automatic programmable electronic with night set back shall also be available.

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.

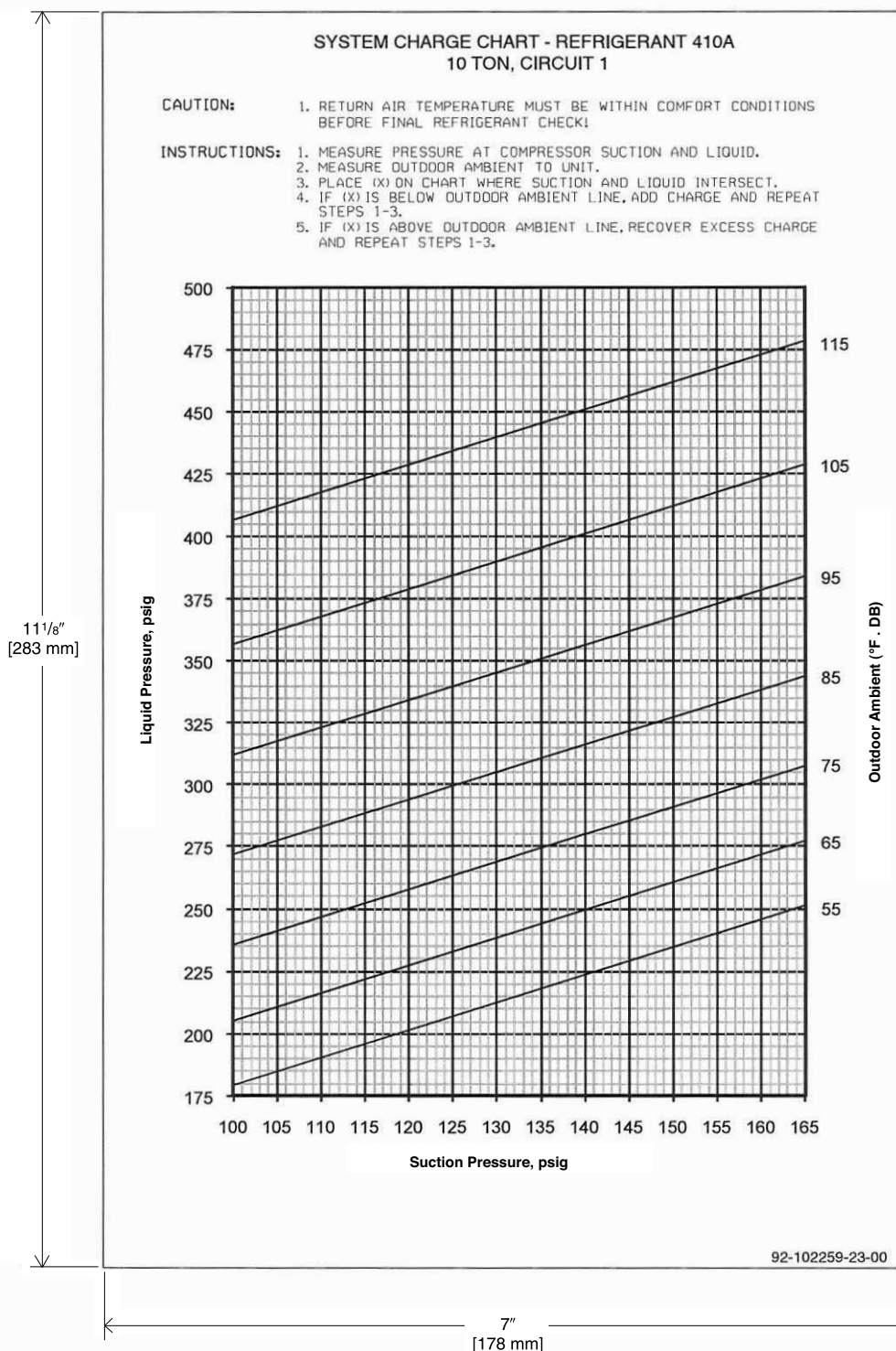


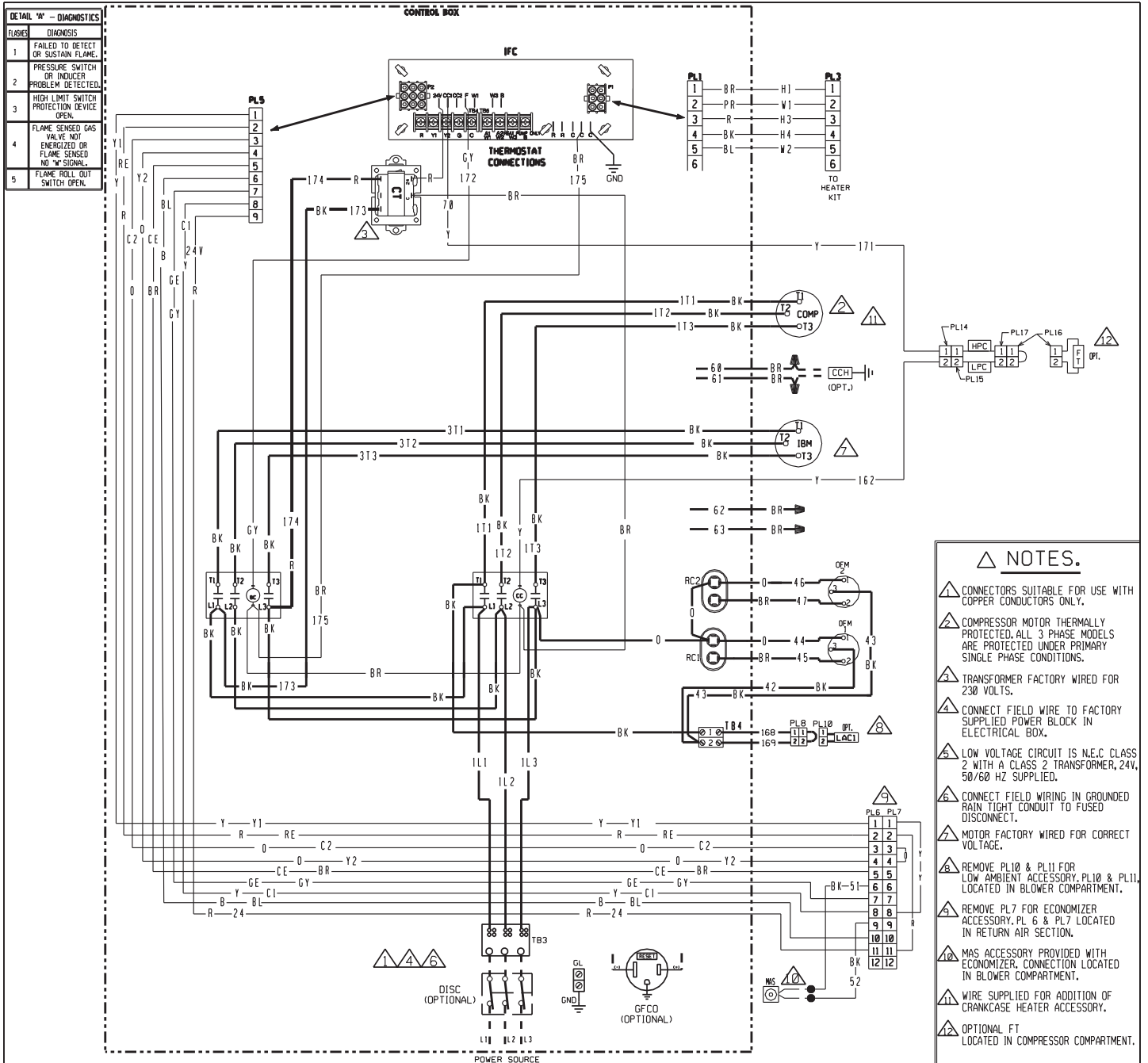
CHARGE CHART 7.5 TON [26.4 TON]





CHARGE CHART 10 TON [35.2 TON]





COMPONENT CODE

BC	BLOWER CONTACTOR	LAC	LOW AMBIENT COOLING CONTROL
CC	COMPRESSOR CONTACTOR	LC	LIMIT CONTROL
CCH	CRANKCASE HEATER	LPC	LOW PRESSURE CONTROL
COMP	COMPRESSOR	MAS	MIX AIR SENSOR
CT	CONTROL TRANSFORMER	MRLC	MANUAL RESET LIMIT CONTROL
DISC	DISCONNECT SWITCH	NPC	NEGATIVE PRESSURE CONTROL
FLMS	FLAME SENSOR	OFM	OUTDOOR FAN MOTOR
FT	FREEZE STAT	PL	PLUG
GFCO	GROUND FAULT CONVENIENCE OUTLET	RC	RUN CAPACITOR
GL	GROUND LUG	SE	SPARK ELECTRODE
GND	GROUND	TB	TERMINAL BLOCK
GV	GAS VALVE	W	WIRE NUT
HPC	HIGH PRESSURE CONTROL		
IBM	INDOOR BLOWER MOTOR BELT DRIVE		
IDM	INDUCED DRAFT MOTOR		
IFC	INTEGRATED FURNACE 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., AND LOCAL CODES AS APPLICABLE.

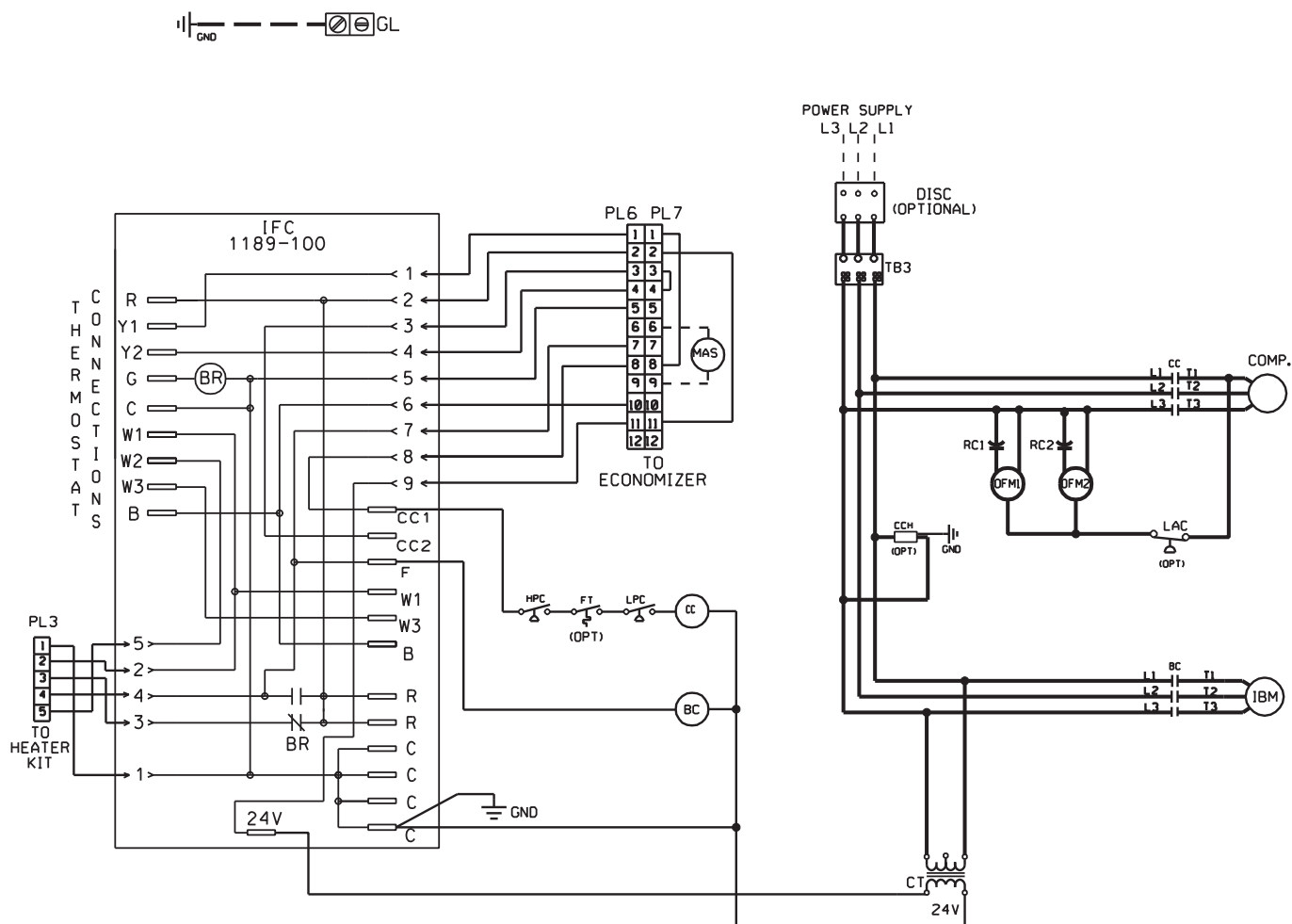
WIRE COLOR CODE

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

WIRING DIAGRAM

(-)LKL-B090/120
 208-230/460/575V 3 PH, 60 HZ.
 200-220/380-415V, 3 PH, 50 HZ

DR. BY	APP. BY	DATE	DWG. NO.	REV
JRJ		04-01-10	90-102892-04	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	PL	PLUG
COMP	COMPRESSOR	RC	RUN CAPACITOR
CT	CONTROL TRANSFORMER	TB	TERMINAL BLOCK
FT	FREEZE STAT		
GL	GROUND LUG		
GND	GROUND		
HPC	HIGH PRESSURE CONTROL		
IBM	INDOOR BLOWER MOTOR		
IFC	INTEGRATED FURNACE CONTROL		
LAC	LOW AMBIENT CONTROL		
LPC	LOW PRESSURE CONTROL		

WIRING INFORMATION

LINE VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

LOW VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

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

WARNING
 -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., 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-B090/120

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

DR. BY	APP. BY	DATE	DWG. NO.	REV
JRJ		04-01-10	90-102893-04	00



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

**Rheem Heating,
Cooling and
Water Heating**

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



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