PACKAGE AIR CONDITIONING UNITS

FORM NO. EXS11-936 REV. 2
Supersedes Form No. EXS11-936 Rev. 1

Featuring Industry Standard R-410A Refrigerant

formerly R-410A

SLNL-B HIGH EFFICIENCY SERIES
NOMINAL SIZES 7.5-12.5 TONS [26.4-44.0 kW]

Accredited by the RvA
ABS Quality Evaluations, Inc. Management System Certification
ANAB ACCREDITED
ISO 9001:2008
Certificate Number: 30164

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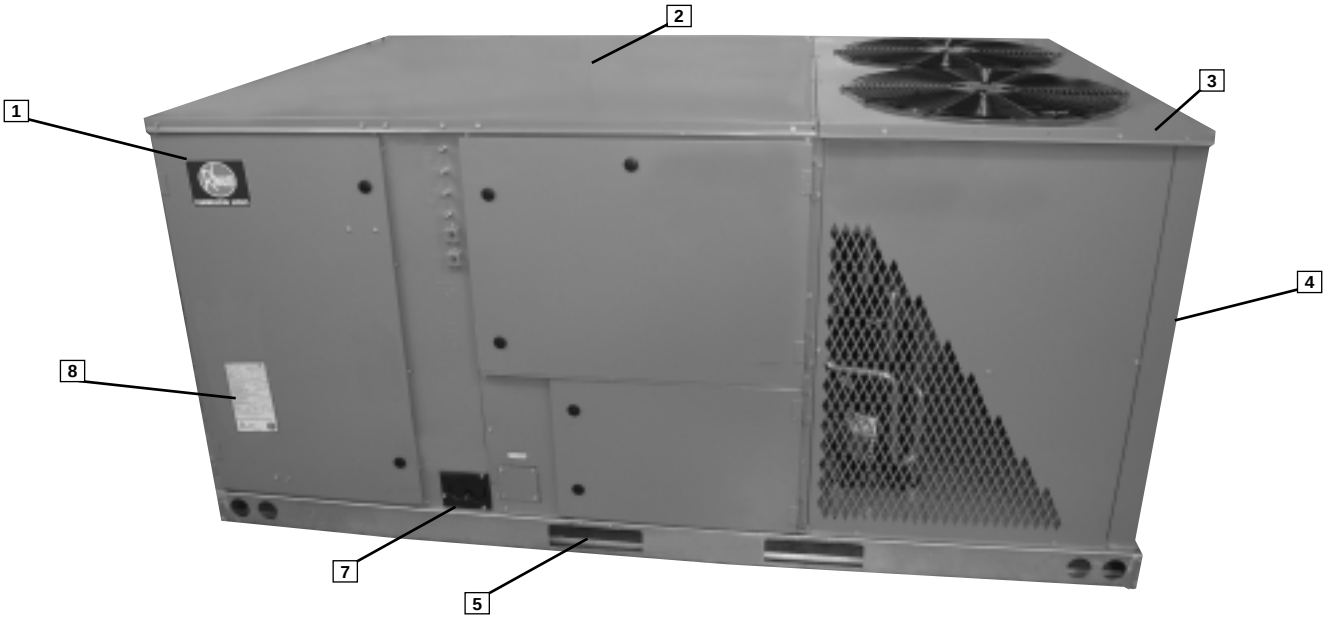
These quality features are included in the Rheem Package Air Conditioner Unit

STANDARD FEATURES INCLUDE:

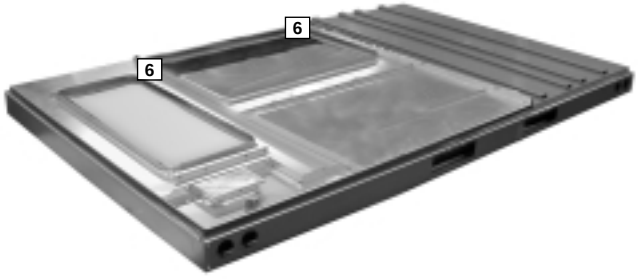
- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Single stage compressor on B072 and B085 models.
- Two stage compressor on B090 – B150 models.
- Convertible airflow.
- TXV refrigerant metering system on each circuit (except on B072 and B085).
- 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.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Hinged major access door with heavy-duty gasketing, 1/4 turn latches and door retainers.
- Slide Out Indoor fan assembly for added service convenience.
- 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, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils ($12^{1}/_{2}$ uses micro channel condenser).
- Molded compressor plug.
- Supplemental electric heat provides 100% efficient heating.

UNIT FEATURES & BENEFITS—SLNL-B SERIES



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.

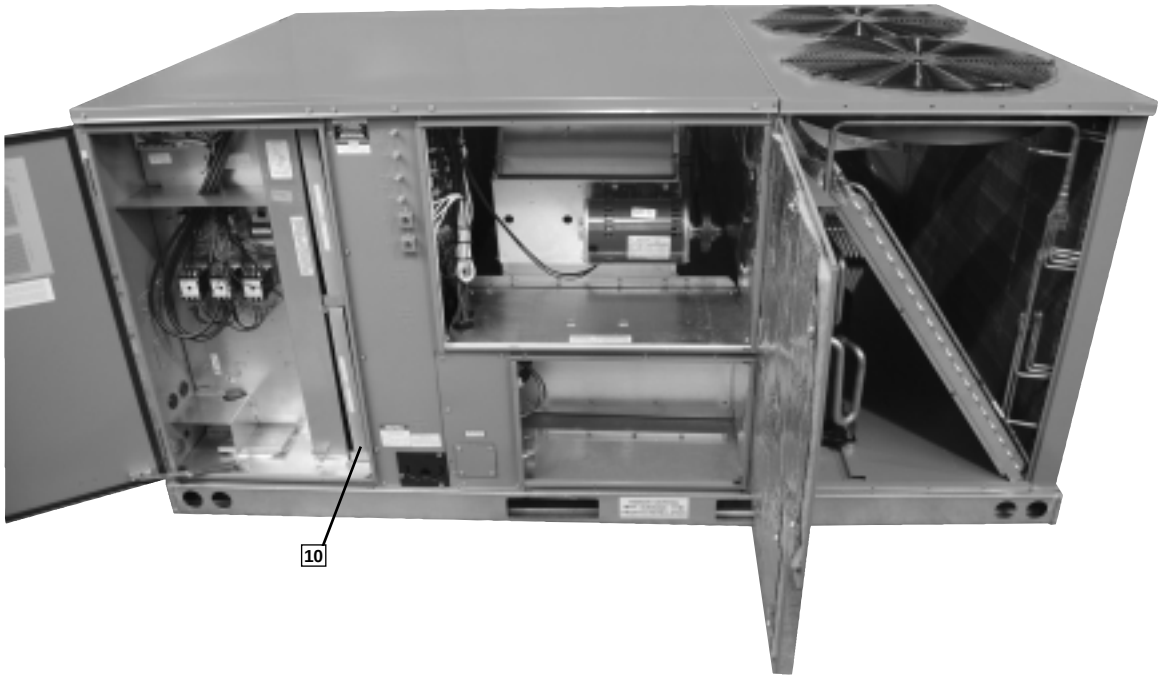


During development, each unit was tested to U.L. 1995, AHRI 340-370 and other Rheem-required reliability tests. Rheem adheres to stringent IS0 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate **(**8**)**. Contractors can rest assured that when a 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 1/4 turn fasteners and hinged access. 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, hinged-access 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.

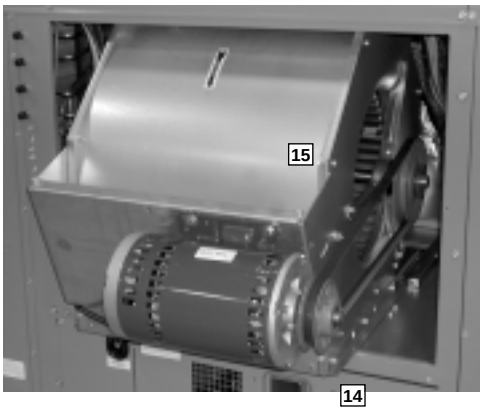
The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having 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 **(**9**)**. The two-inch throwaway filters **(**10**)** are easily removed on a tracked system for easy replacement.

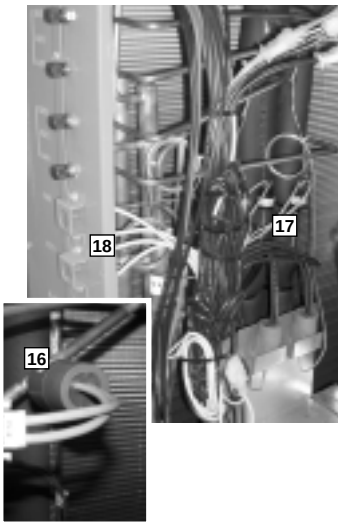


Inside the control box **(**11**)**, each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The control transformer has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

For added convenience in the field, a factory-installed convenience outlet **(**12**)** is available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made 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.

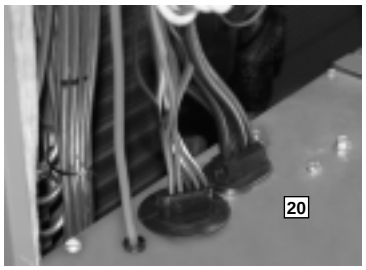
To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection **(**13**)**. With the gauge ports mounted externally, 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 1/4 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 **(**14**)** 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 1.5" 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 **(**15**)** 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.



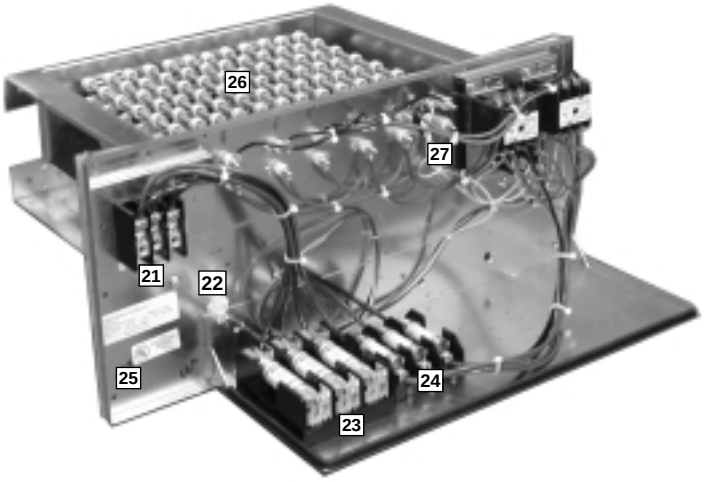


Also inside the blower compartment is the low-ambient control **(**16**)**, low-pressure switch **(**17**)**, high-pressure switch **(**18**)** and freeze stat refrigerant safety device **(**19**)** (optional). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature 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 TXV metering device assures even distribution of refrigerant throughout the evaporator. (Note: 7$^{1}/_{2}$ single stage have a orifice refrigerant control.)

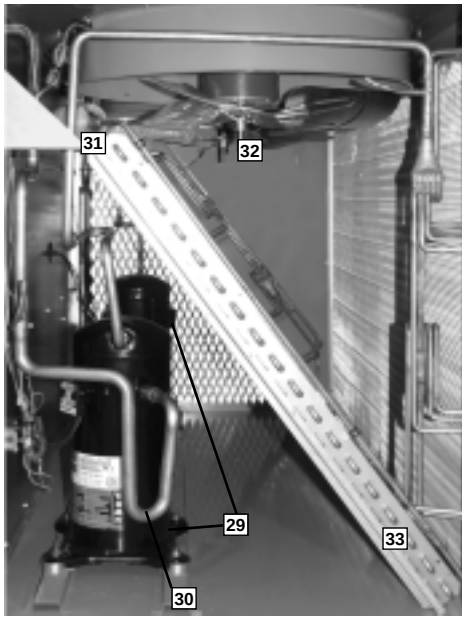


Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly **(**20**)** provides an air-tight and water-tight seal, and provides strain relief. Care is also taken to tuck raw edges of insulation behind 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.

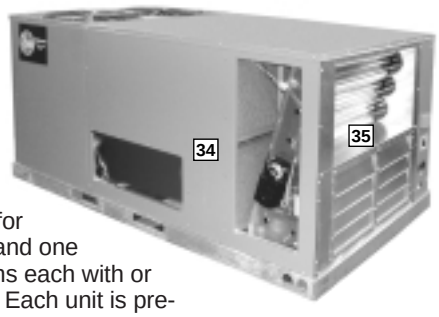
Power hook-up in the field is easy with single-point wiring to a terminal block **(**21**)** and a polarized plug for the low-voltage connection **(**22**)**. The electric furnace comes with fuses for the unit **(**23**)** and for the electric furnace **(**24**)**, and is UL certified **(**25**)**. The electric heating elements are of a wound-wire construction **(**26**)** and isolated with ceramic bushings. The limit switch **(**27**)** 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 **(**29**)** is known for its long life, and for reliable, quiet, and efficient operation. Each compressor has molded compressor plug eliminating potential for mis wiring. The suction and discharge lines are designed with shock loops **(**30**)** to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing. Each compressor and circuit is independent for built-in redundancy, and each circuit is clearly marked throughout the system. Each unit has two stages of efficient cooling operation, first stage is approximately 50% of second stage (072 & 085 single stage).

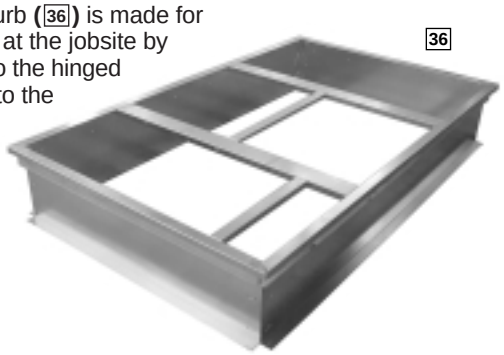
Each unit comes standard with filter dryer **(**31**).** The condenser fan motor **(**32**)** can easily be accessed and maintained through the compressor compartment. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

The outdoor coil uses the latest enhanced fin design **(**33**)** 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 **(**34**)** for job configuration flexibility. The return air compartment can also contain an economizer **(**35**)**. Four models exits, one for downflow applications, and one for horizontal applications each with or without smoke detector. Each unit is prewired 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 Rheem roofcurb **(**36**)** 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.



SELECTION PROCEDURE EXAMPLE—SLNL-B SERIES

To select an SLNL-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 —	68,000 BTUH [19.9 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 8.5 ton [29.9 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 3300 CFM [1557 L/s] indoor air flow (table basis):

Total Cooling Capacity = 101,450 BTUH [29.71 kW]
Sensible Cooling Capacity = 85,200 BTUH [24.95 kW]
Power Input (Compressor and Cond. Fans) = 7,500 watts

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

Sensible Cooling Capacity = 78,303 BTUH [22.93 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 x 0.97 = 98,407 BTUH [28.81 kW]
Sensible Capacity = 78,303 x 0.93 = 72,822 BTUH [21.32 kW]
Power Input = 7,500 x 0.99 = 7,425 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 = 706
WATTS = 1,127
DRIVE = L (3 H.P. motor)

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

1,127 x 3.412 = 3,845 BTUH [1.13 kW]

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

Net Total Capacity = 98,407 - 3,845 = 94,562 BTUH [27.69 kW]

Net Sensible Capacity = 72,822 - 3,845 = 68,977 BTUH [20.20 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 7,425 (step 3) + 1,127 (step 4) = 8,552 Watts

$$\text{EER} = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{94{,}562}{8{,}552} = 11.06$$

8. SELECT UNIT HEATING CAPACITY.

From Heater Kit Table select kW to meet heating capacity requirement:

Heating Capacity = 150,000 BTUH [43.9 kW]
Use 50 kW Heater Kit

9. CHOOSE MODEL SLNL-B120NL50E

*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

S L N L — B 090 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
  - P = 200-220 V, 3 PH, 50 Hz
  - N = 380-415 V, 3 PH, 50 Hz
- Cooling Capacity (BTUH) [kW]
  - 085 = 85,000 [24.91]
  - 090 = 90,000 [26.37]
  - 102 = 100,000 [29.3]
  - 120 = 125,000 [36.63]
  - 150 = 150,000 [43.96]
- Future Technical Variations
- Design Series
  - L = R410A
- Efficiency Designation
  - N = High Efficiency EnergyStar Compliant
- Product Classification
  - L = Packaged Air Conditioner–Commercial
- Tradebrand
  - S = Rheem Packaged Gas/Electric Export

[ ] Designates Metric Conversions

7.5 TO 10 TON [26.4 TO 29.30 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

12.5 TON [44 kW] OPTION CODE

Option Code	Non-Powered Convenience Outlet	Low Ambient/ Freeze Stat
AG	x	
AP		x
JC	x	x

"x" indicates factory installed option.

[ ] Designates Metric Conversions

ECONOMIZER SELECTION FOR LNL 7.5 TO 12.5 TON [26.4 TO 44.0 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:

SLNL-B120NL000 .....this unit has no factory installed options.

SLNL-B120NL000**ADA** .....this unit is equipped with *hail guards.*

SLNL-B120NL000**BYA** .....this unit is equipped with *hail guards, low ambient and unit freeze stat.*

SLNL-B120NL000**BYB** .....this unit is equipped as above *and* includes an *Economizer with single enthalpy sensor and with barometric relief.*

SLNL-B120NL000**AAC** .....this unit is equipped with an *Economizer with single enthalpy sensor and barometric relief with smoke detector.*

[ ] Designates Metric Conversions

NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model SLNL- Series	B085NL	B085NM	B085PL	B090NL
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	74,000 [21.68]	74,000 [21.68]	74,000 [21.68]	79,000 [23.15]
EER/SEER[2]	11.6/NA	11.6/NA	11.6/NA	11.5/NA
Nominal CFM/AHRI Rated CFM [L/s]	2450 [1156]	2450 [1156]	2450 [1156]	2300 [1085]
AHRI Net Cooling Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	76,000 [22.27]
Net Sensible Capacity Btu [kW]	54,800 [16.06]	54,800 [16.06]	54,800 [16.06]	54,100 [15.85]
Net Latent Capacity Btu [kW]	16,200 [4.75]	16,200 [4.75]	16,200 [4.75]	21,900 [6.42]
Integrated Part Load Value[3]	N/A	N/A	N/A	12.9
Net System Power kW	6.1	6.1	6.1	6.64
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	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [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	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]	6665 [3145]	6665 [3145]	6665 [3145]	6665 [3145]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 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	1440
Motor Frame Size	56	56	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	186.9 [5299]	186.9 [5299]	186.9 [5299]	107.5/110.7 [3048/3138]
Weights				
Net Weight lbs. [kg]	965 [438]	965 [438]	965 [438]	1017 [461]
Ship Weight lbs. [kg]	1002 [455]	1002 [455]	1002 [455]	1054 [478]

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. 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 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.

[ ] Designates Metric Conversions

NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model SLNL- Series	B090NM	B090PL	B102NL	B102NM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	79,000 [23.15]	79,000 [23.15]	91,000 [26.66]	91,000 [26.66]
EER/SEER[2]	11.5/NA	11.5/NA	11.8/NA	11.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	2300 [1085]	2300 [1085]	2650 [1251]	2650 [1251]
AHRI Net Cooling Capacity Btu [kW]	76,000 [22.27]	76,000 [22.27]	88,000 [25.78]	88,000 [25.78]
Net Sensible Capacity Btu [kW]	54,100 [15.85]	54,100 [15.85]	64,800 [18.99]	64,800 [18.99]
Net Latent Capacity Btu [kW]	21,900 [6.42]	21,900 [6.42]	23,200 [6.8]	23,200 [6.8]
Integrated Part Load Value[3]	12.9	12.9	13.2	13.2
Net System Power kW	6.64	6.64	7.43	7.43
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	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 18 [7]	2 / 18 [7]
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	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]	6665 [3145]	6665 [3145]	6665 [3145]	6665 [3145]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 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	1440
Motor Frame Size	56	56	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	107.5/110.7 [3048/3138]	107.5/110.7 [3048/3138]	154.4/166.6 [4377/4723]	154.4/166.6 [4377/4723]
Weights				
Net Weight lbs. [kg]	1017 [461]	1017 [461]	1059 [480]	1067 [484]
Ship Weight lbs. [kg]	1054 [478]	1054 [478]	1096 [497]	1096 [497]

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. 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 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.

[ ] Designates Metric Conversions

NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model SLNL- Series	B102PL	B120NL	B120NM	B120PL
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	91,000 [26.66]	103,000 [30.18]	103,000 [30.18]	103,000 [30.18]
EER/SEER[2]	11.8/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2650 [1251]	3300 [1557]	3300 [1557]	3300 [1557]
AHRI Net Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	99,000 [29.01]	99,000 [29.01]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	75,400 [22.09]	75,400 [22.09]	75,400 [22.09]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,600 [6.91]	23,600 [6.91]	23,600 [6.91]
Integrated Part Load Value[3]	13.2	12.7	12.7	12.7
Net System Power kW	7.43	8.82	8.82	8.82
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	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 22 [9]	2 / 22 [9]	2 / 22 [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]	3 / 18 [7]	3 / 18 [7]	3 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
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]	6665 [3145]	6665 [3145]	665 [314]	6665 [3145]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 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	1440
Motor Frame Size	56	56	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	154.4/166.6 [4377/4723]	172.8/180.8 [4899/5126]	172.8/180.8 [4899/5126]	172.8/180.8 [4899/5126]
Weights				
Net Weight lbs. [kg]	1059 [480]	1112 [504]	1120 [508]	1112 [504]
Ship Weight lbs. [kg]	1096 [497]	1149 [521]	1149 [521]	1149 [521]

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. 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 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.

[ ] Designates Metric Conversions

NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model SLNL- Series	B150NL	B150NM	B150PL
Cooling Performance[1]			
Gross Cooling Capacity Btu [kW]	132,000 [38.68]	132,000 [38.68]	132,000 [38.68]
EER/SEER[2]	11.4/NA	11.4/NA	11.4/NA
Nominal CFM/AHRI Rated CFM [L/s]	4150 [1958]	4150 [1958]	4150 [1958]
AHRI Net Cooling Capacity Btu [kW]	126,000 [36.92]	126,000 [36.92]	126,000 [36.92]
Net Sensible Capacity Btu [kW]	95,700 [28.04]	95,700 [28.04]	95,700 [28.04]
Net Latent Capacity Btu [kW]	30,300 [8.88]	30,300 [8.88]	30,300 [8.88]
Integrated Part Load Value[3]	12.3	12.3	12.3
Net System Power kW	11.06	11.06	11.06
Compressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)[4]	88	88	88
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
Tube Size in. [mm] OD	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	2 / 20 [8]	2 / 20 [8]	2 / 20 [8]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	6665 [3145]	6665 [3145]	6665 [3145]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	895	895	895
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1
Motor HP	5	5	5
Motor RPM	1440	1440	1440
Motor Frame Size	56	184	56
Filter—Type	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	159.2/156 [4513/4423]	159.2/156 [4513/4423]	159.2/156 [4513/4423]
Weights			
Net Weight lbs. [kg]	1230 [558]	1238 [562]	1230 [558]
Ship Weight lbs. [kg]	1267 [575]	1267 [575]	1267 [575]

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. 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 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 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.

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—B072

ENTERING INDOOR AIR @ 80°F [26.7°C] ①												
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]			2400 [1133]	1900 [897]	1620 [765]	2400 [1133]	1900 [897]	1620 [765]	2400 [1133]	1900 [897]	1620 [765]	
DR ①			.02	.07	.10	.02	.07	.10	.02	.07	.10	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	81.6 [23.9]	77.9 [22.8]	75.8 [22.2]	77.5 [22.7]	73.9 [21.7]	71.9 [21.1]	73.2 [21.4]	69.8 [20.5]	67.9 [19.9]	
		Sens BTUH [kW]	71.6 [21.0]	60.1 [17.6]	54.0 [17.6]	77.5 [22.7]	68.2 [20.0]	61.6 [20.0]	73.2 [21.4]	69.8 [20.5]	66.2 [19.9]	
		Power	3.6	3.5	3.4	3.5	3.5	3.4	3.5	3.4	3.4	
	80 [26.7]	Total BTUH [kW]	78.1 [22.9]	74.6 [21.9]	72.6 [21.3]	74.0 [21.7]	70.6 [20.7]	68.7 [20.1]	69.7 [20.4]	66.5 [19.5]	64.7 [19.0]	
		Sens BTUH [kW]	63.7 [18.7]	53.2 [15.6]	47.7 [15.6]	72.6 [21.3]	61.3 [18.0]	55.3 [18.0]	69.7 [20.4]	66.1 [19.4]	59.9 [19.0]	
		Power	3.7	3.7	3.6	3.7	3.6	3.6	3.7	3.6	3.6	
	85 [29.4]	Total BTUH [kW]	74.6 [21.9]	71.2 [20.9]	69.3 [20.3]	70.4 [20.6]	67.2 [19.7]	65.4 [19.2]	66.1 [19.4]	63.1 [18.5]	61.4 [18.0]	
		Sens BTUH [kW]	56.7 [16.6]	47.1 [13.8]	42.1 [13.8]	65.6 [19.2]	55.2 [16.2]	49.7 [16.2]	66.1 [19.4]	60.0 [17.6]	54.3 [17.6]	
		Power	3.9	3.9	3.8	3.9	3.8	3.8	3.9	3.8	3.8	
	90 [32.2]	Total BTUH [kW]	71.1 [20.8]	67.8 [19.9]	66.0 [19.3]	66.9 [19.6]	63.8 [18.7]	62.1 [18.2]	62.6 [18.3]	59.7 [17.5]	58.1 [17.0]	
		Sens BTUH [kW]	50.9 [14.9]	42.0 [12.3]	37.4 [12.3]	59.7 [17.5]	50.1 [14.7]	45.1 [14.7]	62.6 [18.3]	54.8 [16.1]	49.5 [16.1]	
		Power	4.2	4.1	4.0	4.1	4.0	4.0	4.1	4.0	4.0	
	95 [35]	Total BTUH [kW]	67.5 [19.8]	64.4 [18.9]	62.7 [18.4]	63.3 [18.5]	60.4 [17.7]	58.8 [17.2]	59.0 [17.3]	56.3 [16.5]	54.8 [16.1]	
		Sens BTUH [kW]	45.8 [13.4]	37.7 [11.0]	33.5 [11.0]	54.7 [16.0]	45.8 [13.4]	41.2 [13.4]	59.0 [17.3]	50.6 [14.8]	45.7 [14.8]	
		Power	4.4	4.3	4.2	4.4	4.3	4.2	4.3	4.2	4.2	
	100 [37.8]	Total BTUH [kW]	63.9 [18.7]	60.9 [17.8]	59.3 [17.4]	59.7 [17.5]	57.0 [16.7]	55.4 [16.2]	55.4 [16.2]	52.9 [15.5]	51.4 [15.1]	
		Sens BTUH [kW]	41.8 [12.2]	34.2 [10.0]	30.4 [10.0]	50.6 [14.8]	42.4 [12.4]	38.0 [12.4]	55.4 [16.2]	47.2 [13.8]	42.6 [13.8]	
		Power	4.6	4.5	4.5	4.6	4.5	4.4	4.6	4.5	4.4	
	105 [40.6]	Total BTUH [kW]	60.2 [17.6]	57.5 [16.8]	55.9 [16.4]	56.0 [16.4]	53.5 [15.7]	52.0 [15.2]	51.7 [15.1]	49.4 [14.5]	48.0 [14.1]	
		Sens BTUH [kW]	38.7 [11.3]	31.8 [9.3]	28.1 [9.3]	47.6 [13.9]	39.9 [11.7]	35.8 [11.7]	51.7 [15.1]	44.6 [13.1]	40.2 [13.1]	
		Power	4.9	4.8	4.7	4.8	4.7	4.7	4.8	4.7	4.6	
	110 [43.3]	Total BTUH [kW]	56.5 [16.6]	53.9 [15.8]	52.5 [15.4]	52.3 [15.3]	49.9 [14.6]	48.6 [14.2]	48.0 [14.1]	45.8 [13.4]	44.6 [13.1]	
		Sens BTUH [kW]	36.6 [10.7]	30.0 [8.8]	26.6 [8.8]	45.5 [13.3]	38.1 [11.2]	34.3 [11.2]	48.0 [14.1]	42.9 [12.6]	38.8 [12.6]	
		Power	5.1	5.0	5.0	5.1	5.0	4.9	5.1	5.0	4.9	
	115 [46.1]	Total BTUH [kW]	52.8 [15.5]	50.4 [14.8]	49.0 [14.4]	48.6 [14.2]	46.4 [13.6]	45.2 [13.2]	44.3 [13.0]	42.3 [12.4]	41.2 [12.1]	
		Sens BTUH [kW]	35.6 [10.4]	29.3 [8.6]	26.0 [8.6]	44.5 [13.0]	37.4 [11.0]	33.7 [11.0]	44.3 [13.0]	42.1 [12.3]	38.2 [12.1]	
		Power	5.4	5.3	5.2	5.4	5.3	5.2	5.4	5.2	5.2	
	120 [48.9]	Total BTUH [kW]	49.0 [14.4]	46.8 [13.7]	45.6 [13.4]	44.9 [13.2]	42.8 [12.5]	41.7 [12.2]	40.6 [11.9]	38.7 [11.3]	37.7 [11.0]	
		Sens BTUH [kW]	35.4 [10.4]	29.3 [8.6]	26.2 [8.6]	44.4 [13.0]	37.4 [11.0]	33.8 [11.0]	40.6 [11.9]	38.7 [11.3]	37.7 [11.0]	
		Power	5.7	5.6	5.5	5.7	5.5	5.5	5.6	5.5	5.4	

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

GROSS SYSTEMS PERFORMANCE DATA—B085

ENTERING INDOOR AIR @ 80°F [26.7°C] ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			2940 [1388]	2450 [1156]	1960 [925]	2940 [1388]	2450 [1156]	1960 [925]	2940 [1388]	2450 [1156]	1960 [925]
DR ①			.05	.08	.11	.05	.08	.11	.05	.08	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	88.8 [26.0]	85.7 [25.1]	82.6 [24.2]	83.5 [24.5]	80.6 [23.6]	77.7 [22.8]	81.0 [23.7]	78.2 [22.9]	75.4 [22.1]
		Sens BTUH [kW]	74.6 [21.9]	65.1 [19.1]	56.2 [19.1]	83.5 [24.5]	74.0 [21.7]	64.5 [21.7]	81.0 [23.7]	78.2 [22.9]	71.6 [22.1]
		Power	4.5	4.4	4.3	4.4	4.3	4.3	4.4	4.3	4.2
	80 [26.7]	Total BTUH [kW]	87.4 [25.6]	84.3 [24.7]	81.3 [23.8]	82.1 [24.1]	79.2 [23.2]	76.3 [22.4]	79.6 [23.3]	76.8 [22.5]	74.0 [21.7]
		Sens BTUH [kW]	69.1 [20.2]	60.1 [17.6]	51.8 [17.6]	78.6 [23.0]	69.0 [20.2]	59.9 [20.2]	79.6 [23.3]	76.8 [22.5]	67.1 [21.7]
		Power	4.7	4.6	4.5	4.7	4.6	4.5	4.6	4.5	4.4
	85 [29.4]	Total BTUH [kW]	85.7 [25.1]	82.7 [24.2]	79.7 [23.4]	80.4 [23.6]	77.6 [22.7]	74.8 [21.9]	77.9 [22.8]	75.2 [22.0]	72.5 [21.2]
		Sens BTUH [kW]	64.2 [18.8]	55.7 [16.3]	47.8 [16.3]	73.7 [21.6]	64.6 [18.9]	56.0 [18.9]	77.9 [22.8]	72.4 [21.2]	63.2 [21.2]
		Power	5.0	4.9	4.8	4.9	4.8	4.7	4.9	4.8	4.7
	90 [32.2]	Total BTUH [kW]	83.7 [24.5]	80.8 [23.7]	77.9 [22.8]	78.4 [23.0]	75.7 [22.2]	72.9 [21.4]	76.0 [22.3]	73.3 [21.5]	70.6 [20.7]
		Sens BTUH [kW]	59.8 [17.5]	51.8 [15.2]	44.3 [15.2]	69.3 [20.3]	60.7 [17.8]	52.5 [17.8]	76.0 [22.3]	68.5 [20.1]	59.7 [20.1]
		Power	5.2	5.1	5.0	5.2	5.1	5.0	5.1	5.0	4.9
	95 [35]	Total BTUH [kW]	81.5 [23.9]	78.6 [23.0]	75.8 [22.2]	76.2 [22.3]	73.5 [21.5]	70.9 [20.8]	73.7 [21.6]	71.1 [20.8]	68.5 [20.1]
		Sens BTUH [kW]	56.1 [16.4]	48.4 [14.2]	41.3 [14.2]	65.6 [19.2]	57.3 [16.8]	49.6 [16.8]	73.7 [21.6]	65.1 [19.1]	56.7 [19.1]
		Power	5.5	5.4	5.3	5.5	5.4	5.3	5.4	5.3	5.2
	100 [37.8]	Total BTUH [kW]	79.0 [23.1]	76.2 [22.3]	73.5 [21.5]	73.7 [21.6]	71.1 [20.8]	68.5 [20.1]	71.2 [20.9]	68.7 [20.1]	66.2 [19.4]
		Sens BTUH [kW]	52.9 [15.5]	45.6 [13.4]	38.9 [13.4]	62.4 [18.3]	54.5 [16.0]	47.1 [16.0]	70.8 [20.7]	62.3 [18.3]	54.2 [18.3]
		Power	5.8	5.7	5.6	5.7	5.6	5.5	5.7	5.6	5.5
	105 [40.6]	Total BTUH [kW]	76.2 [22.3]	73.5 [21.5]	70.9 [20.8]	70.9 [20.8]	68.4 [20.0]	66.0 [19.3]	68.4 [20.0]	66.0 [19.3]	63.6 [18.6]
		Sens BTUH [kW]	50.4 [14.8]	43.4 [12.7]	37.0 [12.7]	59.9 [17.6]	52.3 [15.3]	45.2 [15.3]	68.3 [20.0]	60.1 [17.6]	52.3 [17.6]
		Power	6.1	6.0	5.9	6.0	5.9	5.8	6.0	5.9	5.8
	110 [43.3]	Total BTUH [kW]	73.2 [21.4]	70.6 [20.7]	68.0 [19.9]	67.9 [19.9]	65.5 [19.2]	63.1 [18.5]	65.4 [19.2]	63.1 [18.5]	60.8 [17.8]
		Sens BTUH [kW]	48.4 [14.2]	41.7 [12.2]	35.5 [12.2]	57.9 [17.0]	50.6 [14.8]	43.7 [14.8]	65.4 [19.2]	58.4 [17.1]	50.9 [17.1]
		Power	6.4	6.3	6.2	6.3	6.2	6.1	6.3	6.2	6.1
	115 [46.1]	Total BTUH [kW]	69.9 [20.5]	67.4 [19.7]	65.0 [19.0]	64.6 [18.9]	62.3 [18.3]	60.0 [17.6]	62.1 [18.2]	59.9 [17.6]	57.7 [16.9]
		Sens BTUH [kW]	47.1 [13.8]	40.6 [11.9]	34.6 [11.9]	56.6 [16.6]	49.5 [14.5]	42.8 [14.5]	62.1 [18.2]	57.3 [16.8]	50.0 [16.8]
		Power	6.7	6.6	6.5	6.7	6.6	6.4	6.6	6.5	6.4
	120 [48.9]	Total BTUH [kW]	66.3 [19.4]	63.9 [18.7]	61.6 [18.0]	61.0 [17.9]	58.8 [17.2]	56.7 [16.6]	58.5 [17.1]	56.4 [16.5]	54.4 [15.9]
		Sens BTUH [kW]	46.4 [13.6]	40.0 [11.7]	34.2 [11.7]	55.9 [16.4]	48.9 [14.3]	42.4 [14.3]	58.5 [17.1]	56.4 [16.5]	49.6 [15.9]
		Power	7.0	6.9	6.8	7.0	6.9	6.8	7.0	6.8	6.7

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

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

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

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—B090

ENTERING INDOOR AIR @ 80°F [26.7°C] ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			2760 [1303]	2300 [1086]	1840 [868]	2760 [1303]	2300 [1086]	1840 [868]	2760 [1303]	2300 [1086]	1840 [868]
DR ①			.04	.09	.15	.04	.09	.15	.04	.09	.15
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	100.2 [29.4]	96.6 [28.3]	93.1 [27.3]	93.9 [27.5]	90.6 [26.5]	87.3 [25.6]	88.8 [26.0]	85.7 [25.1]	82.6 [24.2]
		Sens BTUH [kW]	62.9 [18.4]	53.9 [15.8]	45.7 [15.8]	72.3 [21.2]	62.8 [18.4]	53.9 [18.4]	80.9 [23.7]	70.9 [20.8]	61.5 [20.8]
		Power	4.6	4.5	4.4	4.6	4.5	4.4	4.5	4.5	4.4
	80 [26.7]	Total BTUH [kW]	97.4 [28.5]	94.0 [27.5]	90.6 [26.5]	91.2 [26.7]	88.0 [25.8]	84.8 [24.8]	86.1 [25.2]	83.0 [24.3]	80.0 [23.4]
		Sens BTUH [kW]	61.2 [17.9]	52.6 [15.4]	44.6 [15.4]	70.8 [20.7]	61.6 [18.0]	52.9 [18.0]	79.4 [23.3]	69.5 [20.4]	60.3 [20.4]
		Power	4.9	4.8	4.7	4.9	4.8	4.7	4.8	4.7	4.7
	85 [29.4]	Total BTUH [kW]	94.5 [27.7]	91.2 [26.7]	87.9 [25.8]	88.3 [25.9]	85.2 [25.0]	82.1 [24.1]	83.2 [24.4]	80.2 [23.5]	77.3 [22.6]
		Sens BTUH [kW]	59.6 [17.5]	51.2 [15.0]	43.4 [15.0]	69.2 [20.3]	60.2 [17.6]	51.8 [17.6]	77.7 [22.8]	68.1 [20.0]	59.1 [20.0]
		Power	5.2	5.1	5.0	5.2	5.1	5.0	5.1	5.0	5.0
	90 [32.2]	Total BTUH [kW]	91.5 [26.8]	88.3 [25.9]	85.1 [24.9]	85.2 [25.0]	82.2 [24.1]	79.2 [23.2]	80.1 [23.5]	77.3 [22.6]	74.5 [21.8]
		Sens BTUH [kW]	57.9 [17.0]	49.8 [14.6]	42.3 [14.6]	67.5 [19.8]	58.7 [17.2]	50.5 [17.2]	76.0 [22.3]	66.7 [19.5]	57.9 [19.5]
		Power	5.5	5.4	5.3	5.5	5.4	5.3	5.5	5.4	5.3
	95 [35]	Total BTUH [kW]	88.3 [25.9]	85.2 [25.0]	82.1 [24.1]	82.0 [24.0]	79.1 [23.2]	76.3 [22.4]	76.9 [22.5]	74.2 [21.7]	71.5 [20.9]
		Sens BTUH [kW]	56.2 [16.5]	48.3 [14.2]	41.0 [14.2]	65.7 [19.2]	57.2 [16.8]	49.3 [16.8]	74.2 [21.7]	65.2 [19.1]	56.7 [19.1]
		Power	5.9	5.8	5.6	5.8	5.7	5.6	5.8	5.7	5.6
	100 [37.8]	Total BTUH [kW]	84.9 [24.9]	81.9 [24.0]	79.0 [23.1]	78.7 [23.1]	75.9 [22.2]	73.2 [21.4]	73.6 [21.6]	71.0 [20.8]	68.4 [20.0]
		Sens BTUH [kW]	54.3 [15.9]	46.7 [13.7]	39.7 [13.7]	64.0 [18.8]	55.7 [16.3]	48.1 [16.3]	72.5 [21.2]	63.7 [18.7]	55.4 [18.7]
		Power	6.2	6.1	6.0	6.2	6.1	6.0	6.1	6.0	5.9
	105 [40.6]	Total BTUH [kW]	81.4 [23.8]	78.6 [23.0]	75.7 [22.2]	75.2 [22.0]	72.5 [21.2]	69.9 [20.5]	70.1 [20.5]	67.6 [19.8]	65.1 [19.1]
		Sens BTUH [kW]	52.5 [15.4]	45.2 [13.2]	38.4 [13.2]	62.1 [18.2]	54.1 [15.9]	46.7 [15.9]	70.1 [20.5]	62.1 [18.2]	54.0 [18.2]
		Power	6.6	6.5	6.4	6.6	6.4	6.3	6.5	6.4	6.3
	110 [43.3]	Total BTUH [kW]	77.8 [22.8]	75.0 [22.0]	72.3 [21.2]	71.5 [20.9]	69.0 [20.2]	66.5 [19.5]	66.4 [19.5]	64.1 [18.8]	61.7 [18.1]
		Sens BTUH [kW]	50.5 [14.8]	43.4 [12.7]	36.9 [12.7]	60.0 [17.6]	52.4 [15.4]	45.2 [15.4]	66.4 [19.5]	60.4 [17.7]	52.6 [17.7]
		Power	7.0	6.9	6.7	6.9	6.8	6.7	6.9	6.8	6.7
	115 [46.1]	Total BTUH [kW]	74.0 [21.7]	71.4 [20.9]	68.8 [20.2]	67.7 [19.8]	65.3 [19.1]	63.0 [18.5]	62.6 [18.3]	60.4 [17.7]	58.2 [17.1]
		Sens BTUH [kW]	48.5 [14.2]	41.8 [12.2]	35.5 [12.2]	57.9 [17.0]	50.6 [14.8]	43.8 [14.8]	62.6 [18.3]	58.7 [17.2]	51.2 [17.1]
		Power	7.4	7.3	7.1	7.4	7.2	7.1	7.3	7.2	7.1
	120 [48.9]	Total BTUH [kW]	70.0 [20.5]	67.6 [19.8]	65.1 [19.1]	63.8 [18.7]	61.5 [18.0]	59.3 [17.4]	58.6 [17.2]	56.6 [16.6]	54.5 [16.0]
		Sens BTUH [kW]	46.4 [13.6]	40.0 [11.7]	34.0 [11.7]	56.0 [16.4]	48.9 [14.3]	42.3 [14.3]	58.6 [17.2]	56.6 [16.6]	49.7 [16.0]
		Power	7.8	7.7	7.5	7.8	7.7	7.5	7.8	7.6	7.5

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

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

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

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—B102

ENTERING INDOOR AIR @ 80°F [26.7°C] ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			2760 [1303]	2650 [1251]	1840 [868]	2760 [1303]	2650 [1251]	1840 [868]	2760 [1303]	2650 [1251]	1840 [868]
DR ①			.02	.03	.13	.02	.03	.13	.02	.03	.13
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	111.6 [32.7]	110.7 [32.4]	104.6 [30.6]	106.3 [31.1]	105.5 [30.9]	99.7 [29.2]	102.5 [30.0]	101.7 [29.8]	96.0 [28.1]
		Sens BTUH [kW]	65.3 [19.1]	63.2 [18.5]	49.0 [18.5]	77.3 [22.6]	75.0 [22.0]	59.3 [22.0]	88.4 [25.9]	85.9 [25.2]	68.8 [25.2]
		Power	5.2	5.2	5.0	5.1	5.1	5.0	5.1	5.1	4.9
	80 [26.7]	Total BTUH [kW]	108.2 [31.7]	107.4 [31.5]	101.4 [29.7]	103.0 [30.2]	102.2 [29.9]	96.5 [28.3]	99.1 [29.0]	98.3 [28.8]	92.9 [27.2]
		Sens BTUH [kW]	63.7 [18.7]	61.7 [18.1]	47.8 [18.1]	75.7 [22.2]	73.5 [21.5]	58.1 [21.5]	86.7 [25.4]	84.3 [24.7]	67.6 [24.7]
		Power	5.5	5.5	5.3	5.4	5.4	5.3	5.4	5.4	5.2
	85 [29.4]	Total BTUH [kW]	104.7 [30.7]	103.9 [30.4]	98.1 [28.7]	99.5 [29.2]	98.7 [28.9]	93.2 [27.3]	95.6 [28.0]	94.9 [27.8]	89.6 [26.3]
		Sens BTUH [kW]	62.0 [18.2]	60.0 [17.6]	46.5 [17.6]	74.0 [21.7]	71.8 [21.0]	56.8 [21.0]	85.0 [24.9]	82.7 [24.2]	66.4 [24.2]
		Power	5.8	5.8	5.6	5.8	5.8	5.6	5.7	5.7	5.6
	90 [32.2]	Total BTUH [kW]	101.0 [29.6]	100.3 [29.4]	94.7 [27.7]	95.8 [28.1]	95.1 [27.9]	89.8 [26.3]	91.9 [26.9]	91.2 [26.7]	86.2 [25.3]
		Sens BTUH [kW]	60.0 [17.6]	58.2 [17.1]	45.1 [17.1]	72.1 [21.1]	70.0 [20.5]	55.5 [20.5]	83.1 [24.3]	80.8 [23.7]	65.0 [23.7]
		Power	6.2	6.1	6.0	6.1	6.1	5.9	6.1	6.1	5.9
	95 [35]	Total BTUH [kW]	97.2 [28.5]	96.5 [28.3]	91.1 [26.7]	92.0 [27.0]	91.3 [26.8]	86.2 [25.3]	88.1 [25.8]	87.4 [25.6]	82.6 [24.2]
		Sens BTUH [kW]	58.1 [17.0]	56.3 [16.5]	43.6 [16.5]	70.1 [20.5]	68.1 [20.0]	54.0 [20.0]	81.1 [23.8]	78.9 [23.1]	63.5 [23.1]
		Power	6.5	6.5	6.3	6.5	6.5	6.3	6.4	6.4	6.2
	100 [37.8]	Total BTUH [kW]	93.2 [27.3]	92.5 [27.1]	87.4 [25.6]	88.0 [25.8]	87.3 [25.6]	82.5 [24.2]	84.1 [24.6]	83.5 [24.5]	78.9 [23.1]
		Sens BTUH [kW]	56.0 [16.4]	54.2 [15.9]	42.1 [15.9]	68.0 [19.9]	66.0 [19.3]	52.5 [19.3]	79.0 [23.1]	76.9 [22.5]	62.0 [22.5]
		Power	6.9	6.9	6.7	6.9	6.9	6.7	6.8	6.8	6.6
	105 [40.6]	Total BTUH [kW]	89.1 [26.1]	88.4 [25.9]	83.5 [24.5]	83.9 [24.6]	83.3 [24.4]	78.6 [23.0]	80.0 [23.4]	79.4 [23.3]	75.0 [22.0]
		Sens BTUH [kW]	53.8 [15.8]	52.1 [15.3]	40.5 [15.3]	65.9 [19.3]	64.0 [18.8]	50.8 [18.8]	76.9 [22.5]	74.8 [21.9]	60.4 [21.9]
		Power	7.3	7.3	7.1	7.3	7.3	7.1	7.2	7.2	7.0
	110 [43.3]	Total BTUH [kW]	84.8 [24.8]	84.2 [24.7]	79.5 [23.3]	79.6 [23.3]	79.0 [23.1]	74.6 [21.9]	75.7 [22.2]	75.2 [22.0]	71.0 [20.8]
		Sens BTUH [kW]	51.5 [15.1]	49.9 [14.6]	38.8 [14.6]	63.5 [18.6]	61.7 [18.1]	49.1 [18.1]	74.5 [21.8]	72.6 [21.3]	58.6 [20.8]
		Power	7.8	7.7	7.5	7.7	7.7	7.5	7.7	7.7	7.4
	115 [46.1]	Total BTUH [kW]	80.4 [23.6]	79.8 [23.4]	75.4 [22.1]	75.2 [22.0]	74.6 [21.9]	70.5 [20.7]	71.3 [20.9]	70.8 [20.7]	66.8 [19.6]
		Sens BTUH [kW]	49.0 [14.4]	47.5 [13.9]	37.0 [13.9]	61.1 [17.9]	59.3 [17.4]	47.3 [17.4]	71.3 [20.9]	70.2 [20.6]	56.8 [19.6]
		Power	8.2	8.2	8.0	8.2	8.2	7.9	8.1	8.1	7.9
	120 [48.9]	Total BTUH [kW]	75.8 [22.2]	75.3 [22.1]	71.1 [20.8]	70.6 [20.7]	70.1 [20.5]	66.2 [19.4]	66.7 [19.5]	66.2 [19.4]	62.5 [18.3]
		Sens BTUH [kW]	46.5 [13.6]	45.1 [13.2]	35.1 [13.2]	58.5 [17.1]	56.9 [16.7]	45.4 [16.7]	66.7 [19.5]	66.2 [19.4]	54.9 [18.3]
		Power	8.7	8.7	8.4	8.7	8.6	8.4	8.6	8.6	8.3

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—B120

ENTERING INDOOR AIR @ 80°F [26.7°C] ①												
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]			3960 [1869]	3300 [1558]	2640 [1246]	3960 [1869]	3300 [1558]	2640 [1246]	3960 [1869]	3300 [1558]	2640 [1246]	
DR ①			.02	.05	.09	.02	.05	.09	.02	.05	.09	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	129.5 [37.9]	125.0 [36.6]	120.4 [35.3]	123.7 [36.2]	119.4 [35.0]	115.0 [33.7]	119.6 [35.0]	115.5 [33.8]	111.3 [32.6]	
		Sens BTUH [kW]	100.4 [29.4]	87.3 [25.6]	75.0 [25.6]	115.7 [33.9]	101.5 [29.7]	88.0 [29.7]	119.6 [35.0]	112.3 [32.9]	98.0 [32.6]	
		Power	6.2	6.0	5.9	6.1	6.0	5.9	6.0	5.9	5.8	
	80 [26.7]	Total BTUH [kW]	125.5 [36.8]	121.1 [35.5]	116.7 [34.2]	119.7 [35.1]	115.5 [33.8]	111.3 [32.6]	115.6 [33.9]	111.6 [32.7]	107.5 [31.5]	
		Sens BTUH [kW]	93.2 [27.3]	80.8 [23.7]	69.3 [23.7]	108.5 [31.8]	95.0 [27.8]	82.3 [27.8]	115.6 [33.9]	105.8 [31.0]	92.2 [31.0]	
		Power	6.5	6.4	6.3	6.4	6.3	6.2	6.4	6.3	6.2	
	85 [29.4]	Total BTUH [kW]	121.4 [35.6]	117.2 [34.3]	112.9 [33.1]	115.6 [33.9]	111.6 [32.7]	107.5 [31.5]	111.6 [32.7]	107.6 [31.5]	103.7 [30.4]	
		Sens BTUH [kW]	86.6 [25.4]	75.0 [22.0]	64.1 [22.0]	101.9 [29.9]	89.2 [26.1]	77.2 [26.1]	111.6 [32.7]	99.9 [29.3]	87.0 [29.3]	
		Power	6.9	6.8	6.7	6.8	6.7	6.6	6.8	6.6	6.5	
	90 [32.2]	Total BTUH [kW]	117.2 [34.3]	113.1 [33.1]	109.0 [31.9]	111.4 [32.6]	107.5 [31.5]	103.6 [30.4]	107.4 [31.5]	103.6 [30.4]	99.8 [29.2]	
		Sens BTUH [kW]	80.9 [23.7]	69.9 [20.5]	59.7 [20.5]	96.2 [28.2]	84.1 [24.6]	72.7 [24.6]	107.4 [31.5]	94.9 [27.8]	82.6 [27.8]	
		Power	7.3	7.2	7.1	7.2	7.1	7.0	7.2	7.0	6.9	
	95 [35]	Total BTUH [kW]	113.0 [33.1]	109.0 [31.9]	105.0 [30.8]	107.2 [31.4]	103.4 [30.3]	99.6 [29.2]	103.1 [30.2]	99.5 [29.2]	95.9 [28.1]	
		Sens BTUH [kW]	76.1 [22.3]	65.6 [19.2]	55.9 [19.2]	91.4 [26.8]	79.8 [23.4]	68.9 [23.4]	103.0 [30.2]	90.6 [26.5]	78.9 [26.5]	
		Power	7.7	7.6	7.5	7.7	7.5	7.4	7.6	7.5	7.3	
	100 [37.8]	Total BTUH [kW]	108.6 [31.8]	104.8 [30.7]	101.0 [29.6]	102.8 [30.1]	99.2 [29.1]	95.6 [28.0]	98.7 [28.9]	95.3 [27.9]	91.8 [26.9]	
		Sens BTUH [kW]	71.9 [21.1]	62.0 [18.2]	52.8 [18.2]	87.2 [25.5]	76.2 [22.3]	65.8 [22.3]	98.7 [28.9]	87.0 [25.5]	75.7 [25.5]	
		Power	8.2	8.0	7.9	8.1	8.0	7.8	8.0	7.9	7.8	
	105 [40.6]	Total BTUH [kW]	104.1 [30.5]	100.5 [29.4]	96.8 [28.4]	98.3 [28.8]	94.9 [27.8]	91.4 [26.8]	94.3 [27.6]	91.0 [26.7]	87.7 [25.7]	
		Sens BTUH [kW]	68.6 [20.1]	59.1 [17.3]	50.2 [17.3]	83.9 [24.6]	73.3 [21.5]	63.3 [21.5]	94.3 [27.6]	84.1 [24.6]	73.3 [24.6]	
		Power	8.7	8.5	8.4	8.6	8.4	8.3	8.5	8.4	8.2	
	110 [43.3]	Total BTUH [kW]	99.6 [29.2]	96.1 [28.2]	92.6 [27.1]	93.8 [27.5]	90.5 [26.5]	87.2 [25.5]	89.7 [26.3]	86.6 [25.4]	83.4 [24.4]	
		Sens BTUH [kW]	66.0 [19.3]	56.9 [16.7]	48.4 [16.7]	81.3 [23.8]	71.1 [20.8]	61.5 [20.8]	89.7 [26.3]	81.9 [24.0]	71.4 [24.0]	
		Power	9.2	9.0	8.8	9.1	8.9	8.8	9.0	8.9	8.7	
	115 [46.1]	Total BTUH [kW]	95.0 [27.8]	91.6 [26.8]	88.3 [25.9]	89.2 [26.1]	86.0 [25.2]	82.9 [24.3]	85.1 [24.9]	82.1 [24.1]	79.1 [23.2]	
		Sens BTUH [kW]	64.3 [18.8]	55.4 [16.2]	47.2 [16.2]	79.6 [23.3]	69.6 [20.4]	60.3 [20.4]	85.1 [24.9]	80.4 [23.6]	70.2 [23.2]	
		Power	9.7	9.5	9.3	9.6	9.4	9.3	9.5	9.4	9.2	
	120 [48.9]	Total BTUH [kW]	90.2 [26.4]	87.1 [25.5]	83.9 [24.6]	84.4 [24.7]	81.5 [23.9]	78.5 [23.0]	80.4 [23.6]	77.6 [22.7]	74.7 [21.9]	
		Sens BTUH [kW]	63.2 [18.5]	54.7 [16.0]	46.7 [16.0]	78.5 [23.0]	68.9 [20.2]	59.7 [20.2]	80.4 [23.6]	77.6 [22.7]	69.6 [21.9]	
		Power	10.2	10.0	9.9	10.1	10.0	9.8	10.1	9.9	9.7	

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

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

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

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—B150

ENTERING INDOOR AIR @ 80°F [26.7°C] ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			4980 [2351]	4150 [1959]	3320 [1567]	4980 [2351]	4150 [1959]	3320 [1567]	4980 [2351]	4150 [1959]	3320 [1567]
DR ①			.01	.04	.08	.01	.04	.08	.01	.04	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	162.8 [47.7]	157.1 [46.0]	151.4 [44.4]	153.9 [45.1]	148.5 [43.5]	143.1 [41.9]	137.3 [40.2]	132.5 [38.8]	127.6 [37.4]
		Sens BTUH [kW]	107.7 [31.6]	92.8 [27.2]	79.0 [27.2]	125.0 [36.6]	108.9 [31.9]	93.8 [31.9]	128.8 [37.7]	113.0 [33.1]	98.0 [33.1]
		Power	8.0	7.8	7.7	7.8	7.7	7.5	7.6	7.5	7.4
	80 [26.7]	Total BTUH [kW]	158.7 [46.5]	153.2 [44.9]	147.6 [43.2]	149.8 [43.9]	144.6 [42.4]	139.3 [40.8]	133.2 [39.0]	128.5 [37.7]	123.8 [36.3]
		Sens BTUH [kW]	105.8 [31.0]	91.3 [26.8]	77.7 [26.8]	123.1 [36.1]	107.4 [31.5]	92.6 [31.5]	126.9 [37.2]	111.4 [32.6]	96.7 [32.6]
		Power	8.3	8.2	8.1	8.2	8.0	7.9	8.0	7.9	7.7
	85 [29.4]	Total BTUH [kW]	154.5 [45.3]	149.1 [43.7]	143.7 [42.1]	145.6 [42.7]	140.5 [41.2]	135.4 [39.7]	129.0 [37.8]	124.4 [36.4]	119.9 [35.1]
		Sens BTUH [kW]	103.8 [30.4]	89.5 [26.2]	76.3 [26.2]	121.0 [35.5]	105.6 [30.9]	91.1 [30.9]	124.9 [36.6]	109.6 [32.1]	95.3 [32.1]
		Power	8.7	8.6	8.4	8.6	8.4	8.3	8.4	8.3	8.1
	90 [32.2]	Total BTUH [kW]	150.2 [44.0]	144.9 [42.5]	139.7 [40.9]	141.3 [41.4]	136.4 [40.0]	131.4 [38.5]	124.6 [36.5]	120.3 [35.2]	115.9 [34.0]
		Sens BTUH [kW]	101.6 [29.8]	87.6 [25.7]	74.7 [25.7]	118.8 [34.8]	103.8 [30.4]	89.6 [30.4]	122.6 [35.9]	107.8 [31.6]	93.7 [31.6]
		Power	9.2	9.0	8.9	9.0	8.8	8.7	8.8	8.7	8.5
	95 [35]	Total BTUH [kW]	145.8 [42.7]	140.7 [41.2]	135.5 [39.7]	136.9 [40.1]	132.1 [38.7]	127.3 [37.3]	120.2 [35.2]	116.0 [34.0]	111.8 [32.8]
		Sens BTUH [kW]	99.3 [29.1]	85.7 [25.1]	73.0 [25.1]	116.6 [34.2]	101.8 [29.8]	87.9 [29.8]	120.2 [35.2]	105.8 [31.0]	92.1 [31.0]
		Power	9.6	9.4	9.3	9.4	9.3	9.1	9.3	9.1	9.0
	100 [37.8]	Total BTUH [kW]	141.2 [41.4]	136.3 [39.9]	131.3 [38.5]	132.3 [38.8]	127.7 [37.4]	123.0 [36.0]	115.6 [33.9]	111.6 [32.7]	107.5 [31.5]
		Sens BTUH [kW]	96.7 [28.3]	83.5 [24.5]	71.2 [24.5]	113.9 [33.4]	99.6 [29.2]	86.0 [29.2]	115.6 [33.9]	103.6 [30.4]	90.2 [30.4]
		Power	10.1	9.9	9.7	9.9	9.7	9.6	9.7	9.6	9.4
	105 [40.6]	Total BTUH [kW]	136.6 [40.0]	131.8 [38.6]	127.0 [37.2]	127.7 [37.4]	123.2 [36.1]	118.7 [34.8]	111.0 [32.5]	107.1 [31.4]	103.2 [30.2]
		Sens BTUH [kW]	94.0 [27.5]	81.2 [23.8]	69.3 [23.8]	111.3 [32.6]	97.3 [28.5]	84.1 [28.5]	111.0 [32.5]	101.3 [29.7]	88.3 [29.7]
		Power	10.6	10.4	10.2	10.4	10.2	10.0	10.2	10.0	9.9
	110 [43.3]	Total BTUH [kW]	131.8 [38.6]	127.2 [37.3]	122.5 [35.9]	122.9 [36.0]	118.6 [34.7]	114.3 [33.5]	106.2 [31.1]	102.5 [30.0]	98.8 [28.9]
		Sens BTUH [kW]	91.1 [26.7]	78.7 [23.1]	67.1 [23.1]	108.5 [31.8]	94.9 [27.8]	82.1 [27.8]	106.2 [31.1]	98.9 [29.0]	86.3 [28.9]
		Power	11.1	10.9	10.7	10.9	10.7	10.5	10.7	10.5	10.4
	115 [46.1]	Total BTUH [kW]	126.9 [37.2]	122.5 [35.9]	118.0 [34.6]	118.0 [34.6]	113.9 [33.4]	109.7 [32.1]	101.3 [29.7]	97.8 [28.7]	94.2 [27.6]
		Sens BTUH [kW]	88.1 [25.8]	76.2 [22.3]	65.0 [22.3]	105.4 [30.9]	92.3 [27.0]	79.9 [27.0]	101.3 [29.7]	96.3 [28.2]	84.0 [27.6]
		Power	11.6	11.4	11.2	11.4	11.2	11.0	11.3	11.1	10.9
	120 [48.9]	Total BTUH [kW]	121.9 [35.7]	117.6 [34.5]	113.4 [33.2]	113.0 [33.1]	109.1 [32.0]	105.1 [30.8]	96.3 [28.2]	93.0 [27.2]	89.6 [26.3]
		Sens BTUH [kW]	84.8 [24.8]	73.3 [21.5]	62.7 [21.5]	102.1 [29.9]	89.5 [26.2]	77.5 [26.2]	96.3 [28.2]	93.0 [27.2]	81.7 [26.3]
		Power	12.1	11.9	11.7	12.0	11.8	11.6	11.8	11.6	11.4

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]—50 Hz (085 & 090)

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	852	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]	—	—	—	—	594	744	623	780	652	816	682	854	711	890	740	952	770	1014	799	1076	828	1138	857	1200	887	1261	929	1538	958	1623
2600 [1227]	—	—	—	—	602	816	633	858	664	901	699	948	729	1010	758	1072	787	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—8.5 TON [29.9 kW]—50 Hz

Air Flow CFM [L/s]	Capacity 8.5 Ton [29.9 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
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]	—	—	—	—	594	744	623	780	652	816	682	854	711	890	740	952	770	1014	799	1076	828	1138	857	1200	887	1261	929	1538	958	1623
2600 [1227]	—	—	572	776	602	816	633	858	664	901	699	948	729	1010	758	1072	787	1134	816	1196	846	1258	875	1320	914	1581	943	1666	—	—
2800 [1321]	564	839	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]	579	924	608	972	638	1020	669	1069	705	1127	734	1189	763	1251	792	1313	822	1375	851	1437	880	1498	913	1752	943	1837	—	—	—	—
3200 [1510]	603	945	630	1020	659	1095	687	1170	715	1245	742	1319	770	1394	797	1468	825	1543	852	1617	880	1692	—	—	—	—	—	—	—	—
3400 [1605]	629	1114	658	1188	686	1262	714	1336	742	1410	769	1485	797	1559	824	1634	852	1708	879	1783	950	1811	—	—	—	—	—	—	—	—

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	955	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 8.5 TON [29.9 kW]

ACTUAL—CFM [L/s]	2200 [1038]	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]
TOTAL MBH	.96	.97	.99	1.00	1.01	1.03	1.04
SENSIBLE MBH	.90	.93	.97	1.00	1.03	1.07	1.10
POWER kW	.99	.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 8.5 TON [29.9 kW]

Component	Standard Indoor Airflow—CFM [L/s]						
	2200 [1038]	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]
	Resistance—Inches Water [kPa]						
Wet Coil	.04	.05	.05	.06	.06	.07	.07
Economizer R.A. Damper Open	.04	.05	.06	.07	.08	.09	.10
Concentric Grille & Transition	.12	.13	.15	.17	.19	.21	.24

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]	
	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
2600 [1227]	—	—	572	776	602	816	633	858	664	901	699	948	729	1010	758	1072	787	1134	816	1196	846	1258	875	1320	914	1581	943	1666
2800 [1321]	564	839	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]	579	924	608	972	638	1020	669	1069	705	1127	734	1189	763	1251	792	1313	822	1375	851	1437	880	1498	913	1752	943	1837	—	—
3200 [1510]	603	945	630	1020	659	1095	687	1170	715	1245	742	1319	770	1394	797	1468	825	1543	852	1617	880	1692	—	—	—	—	—	—
3400 [1605]	629	1114	658	1188	686	1262	714	1336	742	1410	769	1485	797	1559	824	1634	852	1708	879	1783	950	1811	—	—	—	—	—	—
3600 [1699]	655	1278	684	1352	713	1426	741	1501	769	1576	796	1650	824	1725	851	1799	879	1874	945	1892	—	—	—	—	—	—	—	—
3800 [1793]	684	1445	712	1519	740	1593	768	1667	796	1741	823	1816	851	1890	878	1965	940	2003	—	—	—	—	—	—	—	—	—	—
4000 [1888]	711	1607	739	1682	767	1757	795	1832	823	1907	850	1981	878	2056	935	2085	955	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	955	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.

AIRFLOW PERFORMANCE—12.5 TON [44 kW]—50 Hz

Air Flow CFM [L/s]	Capacity 12.5 Ton [44 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
3400 [1605]	—	—	—	—	—	—	—	—	742	1410	769	1485	797	1559	824	1634	852	1708	879	1783	950	1811	971	1827	980	1941	898	2054	1032	2168
3600 [1699]	—	—	—	—	—	—	741	1501	769	1576	796	1650	824	1725	851	1799	879	1874	945	1892	966	1951	986	2065	898	2178	1016	2292	1047	2405
3800 [1793]	—	—	—	—	741	1592	768	1667	796	1741	823	1816	851	1890	878	1965	940	2003	960	2075	981	2189	1001	2302	1016	2416	1043	2529	1062	2643
4000 [1888]	—	—	740	1683	768	1758	795	1832	823	1907	850	1981	878	2056	935	2085	955	2199	975	2312	996	2426	1016	2539	1043	2653	1070	2767	—	—
4200 [1982]	740	1774	767	1849	795	1923	822	1998	850	2072	877	2147	930	2209	950	2323	970	2436	990	2550	1011	2663	1031	2777	1070	2890	—	—	—	—
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	—	—	—	—	—	—
4600 [2171]	794	2105	821	2180	849	2254	876	2329	919	2457	940	2571	960	2684	980	2798	1000	2911	1021	3025	1041	3138	1061	3252	—	—	—	—	—	—
4800 [2265]	821	2271	848	2345	876	2420	914	2581	934	2695	955	2808	975	2922	995	3035	1015	3149	1036	3262	1056	3376	—	—	—	—	—	—	—	—
5000 [2360]	947	2700	967	2814	986	2927	1006	3040	1025	3153	1045	3267	1064	3380	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

Drive Package	L						M					
Motor H.P. [W]	5.0 [3728.5]						5.0 [3728.5]					
Blower Sheave	BK65						BK65					
Motor Sheave	1VP-44						1VM-50					
Turns Open	1	2	3	**4**	5	6	1	2	**3**	4	5	6
RPM	945	905	865	**825**	785	740	1070	1026	**982**	938	895	848

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

AIRFLOW CORRECTION FACTORS 12.5 TON [44 kW]

ACTUAL—CFM [L/s]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]	5000 [2360]
TOTAL MBH	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05
SENSIBLE MBH	.93	.95	.98	1.00	1.02	1.05	1.07	1.09	1.12
POWER kW	.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	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 12.5 TON [44 kW]

Component	Standard Indoor Airflow—CFM [L/s]								
	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]	5000 [2360]
	Resistance—Inches Water [kPa]								
Wet Coil	.07	.08	.08	.09	.09	.10	.11	.11	.16
Economizer R.A. Damper Open	.10	.11	.12	.13	.14	.15	.16	.17	.18
Concentric Grille & Transition	.24	.28	.33	.38	.41	.44	.51	.58	.63

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

ELECTRICAL DATA – SLNL SERIES

		B085NL	B085NM	B085PL	B090NL	B090NM	B090PL	B102NL	B102NM
Unit Information	Unit Operating Voltage Range	342-456	342-456	180-242	342-456	342-456	180-424	342-456	342-456
	Volts	380/415	380/415	200/220	380/415	380/415	200/220	380/415	380/415
	Minimum Circuit Ampacity	24/0	24/0	47/47	24/24	24/24	48/48	26/26	26/0
	Minimum Overcurrent Protection Device Size	25/0	25/0	50/50	25/25	25/25	50/50	30/30	30/0
	Maximum Overcurrent Protection Device Size	30/0	30/0	70/70	30/30	30/30	60/60	30/30	30/0
Compressor Motor	No.	1	1	1	2	2	2	2	2
	Volts	380/415	380/415	200/220	380/415	380/415	200/220	380/415	380/415
	Phase	3	3	3	3	3	3	3	3
	RPM	2900	2900	2900	2900	2900	2900	2900	2900
	Amps (RLA), Comp. 1	11.2/11.2	11.2/11.2	21.7/21.7	6/6	6/6	12.6/12.6	7.1/7.1	7.1/7.1
	Amps (LRA), Comp. 1	68/75	68/75	163/179	43/43	43/43	80.7/80.7	43/48	43/48
	Amps (FLA)				6/6	6/6	12.6/12.6	7.1/7.1	7.1/7.1
	Amps (LRA)				43/43	43/43	80.7/80.7	43/48	43/48
Condenser Motor	No.	2	2	2	2	2	2	2	2
	Volts	380/415	380/415	200/220	380/415	380/415	200/220	380/415	380/415
	Phase	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	1.4/1.4	1.4/1.4	2.4/2.4	1.4/1.4	1.4/1.4	2.4/2.4	1.4/1.4	1.4/1.4
	Amps (LRA)	2.4/2.4	2.4/2.4	4.7/4.7	2.4/2.4	2.4/2.4	4.7/4.7	2.4/2.4	2.4/2.4
Evaporator Fan	No.	1	1	1	1	1	1	1	1
	Volts	380/415	380/415	200/220	380/415	380/415	200/220	380/415	380/415
	Phase	3	3	3	3	3	3	3	3
	HP	3	3	3	3	3	3	3	3
	Amps (FLA, each)	7/7	7/7	13/13	7/7	7/7	13/13	7/7	7/7
	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	38.1/38.1	38.1/38.1

ELECTRICAL DATA – SLNL SERIES								
		B102PL	B120NL	B120NM	B120PL	B150NL	B150NM	B150PL
Unit Information	Unit Operating Voltage Range	180-242	342-456	342-456	180-242	342-456	342-456	180-242
	Volts	200/220	380/415	380/415	200/220	380/415	380/415	200/220
	Minimum Circuit Ampacity	54/54	28/28	28/0	54/54	36/36	36/36	71/71
	Minimum Overcurrent Protection Device Size	55/55	30/30	30/0	55/55	40/40	40/40	75/75
	Maximum Overcurrent Protection Device Size	60/60	35/35	35/0	60/60	45/45	45/45	90/90
Compressor Motor	No.	2	2	2	2	2	2	2
	Volts	200/220	380/415	380/415	200/220	380/415	380/415	200/220
	Phase	3	3	3	3	3	3	3
	RPM	2900	2900	2900	2900	2900	2900	2900
	Amps (RLA), Comp. 1	14.5/14.5	7.8/7.8	7.8/7.8	15.3/15.3	10.6/10.6	10.6/10.6	22.4/22.4
	Amps (LRA), Comp. 1	94/105	47/51.5	47/51.5	110/110	67/74	67/74	149/149
	Amps (FLA)	14.5/14.5	7.8/7.8	7.8/7.8	15.3/15.3	9.7/9.7	9.7/9.7	19/19
	Amps (LRA)	94/105	47/51.5	47/51.5	110/110	58/62	58/62	122/135
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	200/220	380/415	380/415	200/220	380/415	380/415	200/220
	Phase	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/2	1/2	1/2
	Amps (FLA, each)	2.4/2.4	1.4/1.4	1.4/1.4	2.4/2.4	1.5/1.5	1.5/1.5	2.3/2.3
	Amps (LRA)	4.7/4.7	2.4/2.4	2.4/2.4	4.7/4.7	3.1/3.1	3.1/3.1	5.6/5.6
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	200/220	380/415	380/415	200/220	380/415	380/415	200/220
	Phase	3	3	3	3	3	3	3
	HP	3	3	3	3	5	5	5
	Amps (FLA, each)	13/13	7/7	7/7	13/13	10/10	10/10	18.8/18.8
	Amps (LRA, each)	74.5/74.5	38.1/38.1	38.1/38.1	74.5/74.5	41.3/41.3	41.3/41.3	82.6/82.6

UNITS WITH HEATER KITS (380/415V – 3 PHASE)

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				
Unit Model No. SLNL-	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		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. 415V				Min./Max. 380V	Min./Max. 415V
B072NL	No Heat	—	—	—	—	18/0	20/25	0/0	—	—	18/0	20/25	0/0
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	18/16	20/25	20/25	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	21/23	25/25	25/25	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	27/29	30/30	30/30	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	38/41	40/40	45/45	35/38	35/40	—	—	—
	CC31D	1	18/21.5	61.5/73.36	27.4/29.9	38/41	40/40	45/45	35/38	35/40	—	—	—
B085NL	No Heat	—	—	—	—	24/0	25/30	0/0	—	—	24/0	25/30	0/0
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	24/22	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
B090NL	No Heat	—	—	—	—	24/24	25/30	25/30	—	—	24/24	25/30	25/30
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	24/24	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
B102NL	No Heat	—	—	—	—	26/26	30/30	30/30	—	—	26/26	30/30	30/30
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	26/26	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
B120NL	No Heat	—	—	—	—	28/28	30/35	30/35	—	—	28/28	30/35	30/35
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	28/28	30/35	30/35	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	28/28	30/35	30/35	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
	CC50D	1	30.1/35.9	102.57/122.33	45.7/49.9	66/72	70/70	80/80	58/63	60/70	—	—	—
	CC51D	1	30.1/35.9	102.57/122.33	45.7/49.9	66/72	70/70	80/80	58/63	60/70	—	—	—

UNITS WITH HEATER KITS (380/415V – 3 PHASE)

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			
Unit Model No. SLNL-	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		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. 415V				Min./Max. 380V	Min./Max. 415V
B150NL	No Heat	—	—	—	—	36/36	40/45	40/45	—	—	36/36	40/45	40/45
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	36/36	40/45	40/45	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	36/36	40/45	40/45	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	36/38	40/45	40/45	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	47/50	50/50	50/50	35/38	35/40	—	—	—
	CC31D	1	18/21.5	61.5/73.36	27.4/29.9	47/50	50/50	50/50	35/38	35/40	—	—	—
	CC40D	1	24.1/28.7	82.12/97.95	36.6/39.9	59/63	60/60	70/70	46/50	50/50	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	59/63	60/60	70/70	46/50	50/50	—	—	—
	CC50D	1	30.1/35.9	102.57/122.33	45.7/49.9	70/75	70/70	80/80	58/63	60/70	—	—	—
	CC51D	1	30.1/35.9	102.57/122.33	45.7/49.9	70/75	70/70	80/80	58/63	60/70	—	—	—
B072NM	No Heat	—	—	—	—	18/0	20/25	0/0	—	—	18/0	20/25	0/0
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	18/16	20/25	20/25	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	21/23	25/25	25/25	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	27/29	30/30	30/30	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	38/41	40/40	45/45	35/38	35/40	—	—	—
	CC31D	1	18/21.5	61.5/73.36	27.4/29.9	38/41	40/40	45/45	35/38	35/40	—	—	—
B085NM	No Heat	—	—	—	—	24/0	25/30	0/0	—	—	24/0	25/30	0/0
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	24/22	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
B090NM	No Heat	—	—	—	—	24/24	25/30	25/30	—	—	24/24	25/30	25/30
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	24/24	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
B102NM	No Heat	—	—	—	—	26/0	30/30	0/0	—	—	26/0	30/30	0/0
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	26/22	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	—	—	—
	CC31D	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—

UNITS WITH HEATER KITS (380/415V – 3 PHASE)

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				
Unit Model No. SLNL-	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		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. 415V				Min./Max. 380V	Min./Max. 415V
B120NM	No Heat	—	—	—	—	28/0	30/35	0/0	—	—	28/0	30/35	0/0
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	28/22	30/35	30/35	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	28/28	30/35	30/35	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	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	55/59	60/60	60/60	46/50	50/50	—	—	—
	CC50D	1	30.1/35.9	102.57/122.33	45.7/49.9	66/72	70/70	80/80	58/63	60/70	—	—	—
	CC51D	1	30.1/35.9	102.57/122.33	45.7/49.9	66/72	70/70	80/80	58/63	60/70	—	—	—
B150NM	No Heat	—	—	—	—	36/36	40/45	40/45	—	—	36/36	40/45	40/45
	CC10D	1	6/7.1	20.44/24.38	9.1/9.9	36/36	40/45	40/45	12/13	15/15	—	—	—
	CC15D	1	9/10.8	30.75/36.68	13.7/15	36/36	40/45	40/45	18/19	20/20	—	—	—
	CC20D	1	12/14.4	41.06/48.97	18.3/20	36/38	40/45	40/45	23/25	25/25	—	—	—
	CC30D	1	18/21.5	61.5/73.36	27.4/29.9	47/50	50/50	50/50	35/38	35/40	—	—	—
	CC31D	1	18/21.5	61.5/73.36	27.4/29.9	47/50	50/50	50/50	35/38	35/40	—	—	—
	CC40D	1	24.1/28.7	82.12/97.95	36.6/39.9	59/63	60/60	70/70	46/50	50/50	—	—	—
	CC41D	1	24.1/28.7	82.12/97.95	36.6/39.9	59/63	60/60	70/70	46/50	50/50	—	—	—
	CC50D	1	30.1/35.9	102.57/122.33	45.7/49.9	70/75	70/70	80/80	58/63	60/70	—	—	—
	CC51D	1	30.1/35.9	102.57/122.33	45.7/49.9	70/75	70/70	80/80	58/63	60/70	—	—	—

UNITS WITH HEATER KITS (200/220V – 3 PHASE)

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				
Unit Model No. SLNL-	Heater Kit					Air Conditioner		Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 200/220V	Heater kBTU/Hr @ 200/220V	Heater Amps @ 200/220V	Unit Min. Ckt. Ampacity @ 200/220V	Over Current Protective Device Size		Min. Ckt. Ampacity 200/220V	Max. Fuse Size 200/220V	Min. Circuit Ampacity 200/220V	Over Current Protective Device Size	
							Min./Max. 200V	Min./Max. 220V				Min./Max. 200V	Min./Max. 220V
B072PL	No Heat	—	—	—	—	37/37	40/50	40/50	—	—	37/37	40/50	40/50
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	37/37	45/50	45/60	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	44/47	45/50	50/60	37/40	40/40	—	—	—
	CC20C	1	13.3/16.1	45.45/55.05	38.5/42.4	56/60	60/60	60/60	49/53	50/60	—	—	—
	CC30C	1	20/24.2	68.18/82.58	57.7/63.5	80/87	80/80	90/90	73/80	80/80	—	—	—
	CC31C	1	20/24.2	68.18/82.58	57.7/63.5	80/87	80/80	90/90	73/80	80/80	—	—	—
B085PL	No Heat	—	—	—	—	47/47	50/70	50/70	—	—	47/47	50/70	50/70
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	47/47	60/70	60/70	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	53/56	60/70	60/70	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	—	—	—
	CC31C	1	20/24.2	68.18/82.58	57.7/63.5	89/96	90/90	100/100	73/80	80/80	—	—	—
	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
	CC41C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
B090PL	No Heat	—	—	—	—	48/48	50/60	50/60	—	—	48/48	50/60	50/60
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	48/48	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	—	—	—
	CC31C	1	20/24.2	68.18/82.58	57.7/63.5	89/96	90/90	100/100	73/80	80/80	—	—	—
	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
	CC41C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
B102PL	No Heat	—	—	—	—	54/54	55/60	55/60	—	—	54/54	55/60	55/60
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	54/54	60/60	60/60	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	54/56	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	—	—	—
	CC31C	1	20/24.2	68.18/82.58	57.7/63.5	89/96	90/90	100/100	73/80	80/80	—	—	—
	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
	CC41C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—

UNITS WITH HEATER KITS (200/220V – 3 PHASE)

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				
Unit Model No. SLNL-	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 200/220V	Heater kBTU/Hr @ 200/220V	Heater Amps @ 200/220V	Unit Min. Ckt. Ampacity @ 200/220V	Over Current Protective Device Size		Min. Ckt. Ampacity 200/220V	Max. Fuse Size 200/220V	Min. Circuit Ampacity 200/220V	Over Current Protective Device Size	
							Min./Max. 200V	Min./Max. 220V				Min./Max. 200V	Min./Max. 220V
B120PL	No Heat	—	—	—	—	54/54	55/60	55/60	—	—	54/54	55/60	55/60
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	54/54	60/60	60/60	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	54/56	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	—	—	—
	CC31C	1	20/24.2	68.18/82.58	57.7/63.5	89/96	90/90	100/100	73/80	80/80	—	—	—
	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
	CC41C	1	26.7/32.3	91.02/110.11	77/84.7	113/123	125/125	125/125	97/106	100/110	—	—	—
	CC50C	1	33.3/40.3	113.75/137.63	96.2/105.9	137/149	150/150	150/150	121/133	125/150	—	—	—
	CC51C	1	33.3/40.3	113.75/137.63	96.2/105.9	137/149	150/150	150/150	121/133	125/150	—	—	—
B150PL	No Heat	—	—	—	—	71/71	75/90	75/90	—	—	71/71	75/90	75/90
	CC10C	1	6.7/8.1	22.73/27.53	19.2/21.2	71/71	80/90	80/90	25/27	25/30	—	—	—
	CC15C	1	10/12.1	34.09/41.23	28.8/31.7	71/71	80/90	80/90	37/40	40/40	—	—	—
	CC20C	1	13.3/16.1	45.45/55.05	38.5/42.4	72/77	80/90	80/90	49/53	50/60	—	—	—
	CC30C	1	20/24.2	68.18/82.58	57.7/63.5	96/103	100/100	110/110	73/80	80/80	—	—	—
	CC31C	1	20/24.2	68.18/82.58	57.7/63.5	96/103	100/100	110/110	73/80	80/80	—	—	—
	CC40C	1	26.7/32.3	91.02/110.11	77/84.7	120/130	125/125	150/150	97/106	100/110	—	—	—
	CC41C	1	26.7/32.3	91.02/110.11	77/84.7	120/130	125/125	150/150	97/106	100/110	—	—	—
	CC50C	1	33.3/40.3	113.75/137.63	96.2/105.9	144/156	150/150	175/175	121/133	125/150	—	—	—
	CC51C	1	33.3/40.3	113.75/137.63	96.2/105.9	144/156	150/150	175/175	121/133	125/150	—	—	—

PACKAGE AIR CONDITIONER
7.5 TO 12.5 TON [26.4 TO 44.0 kW]

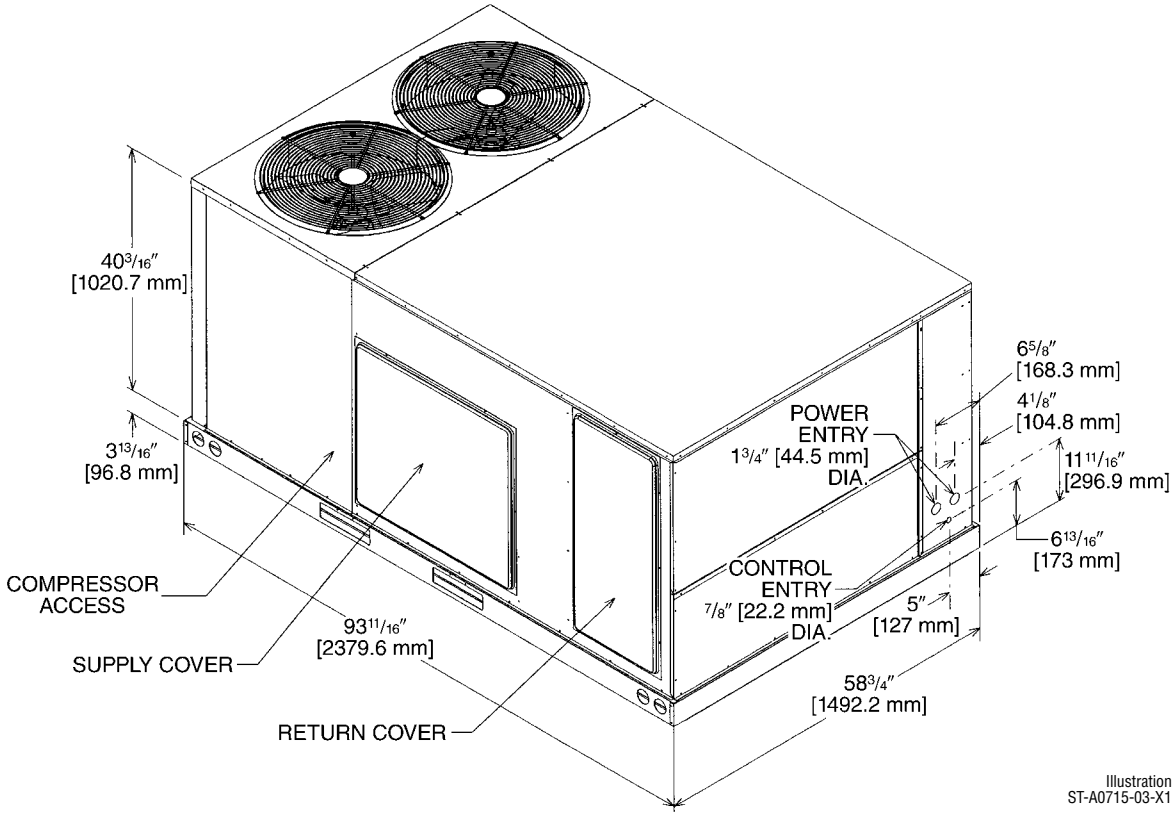
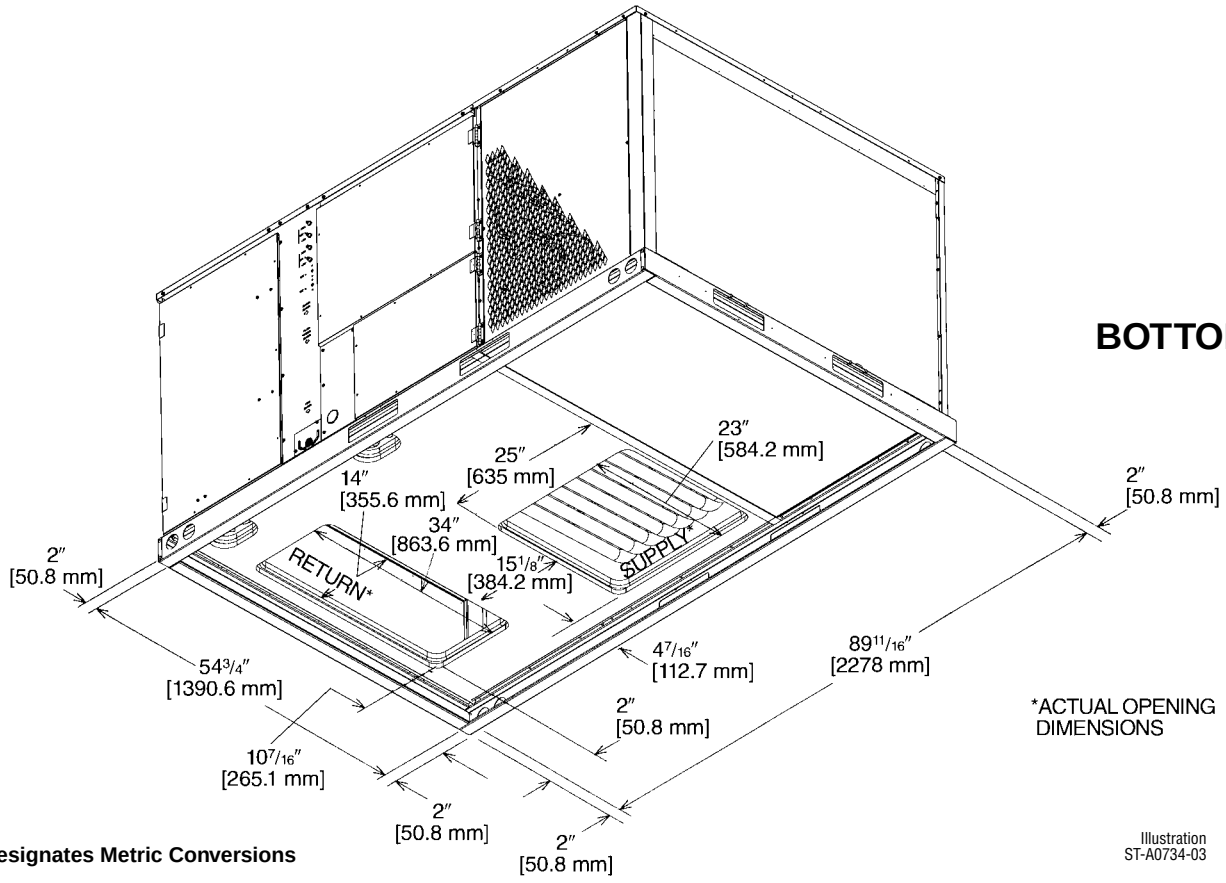


Illustration
ST-A0715-03-X1

BOTTOM VIEW



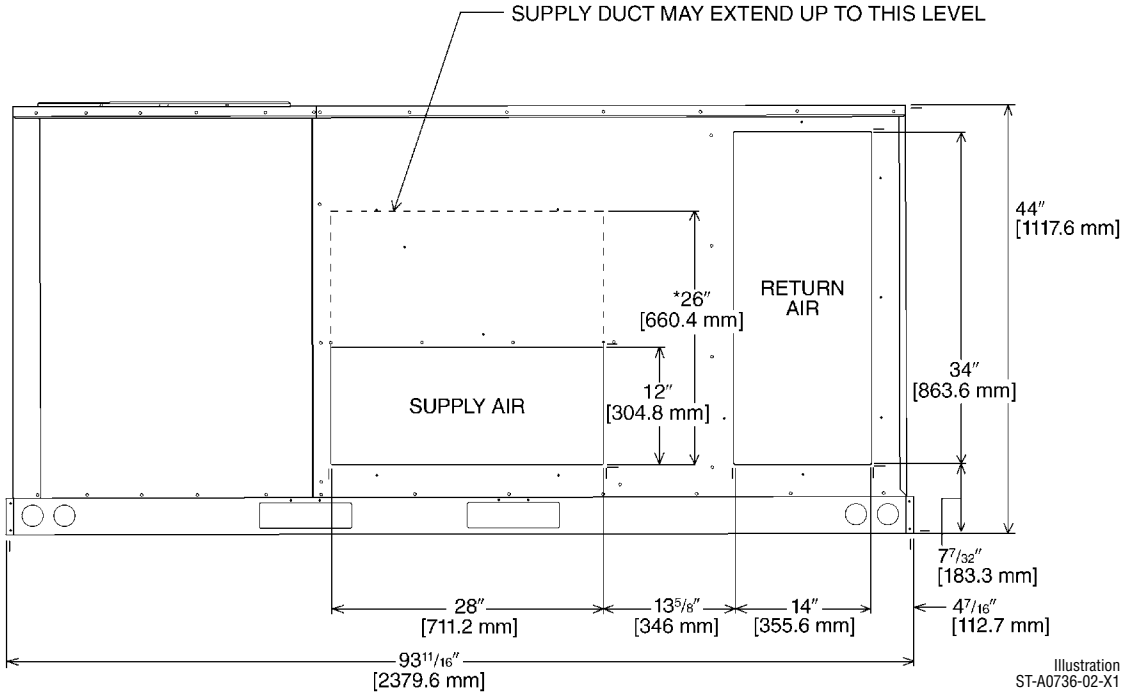
*ACTUAL OPENING DIMENSIONS

Illustration
ST-A0734-03

[ ] Designates Metric Conversions

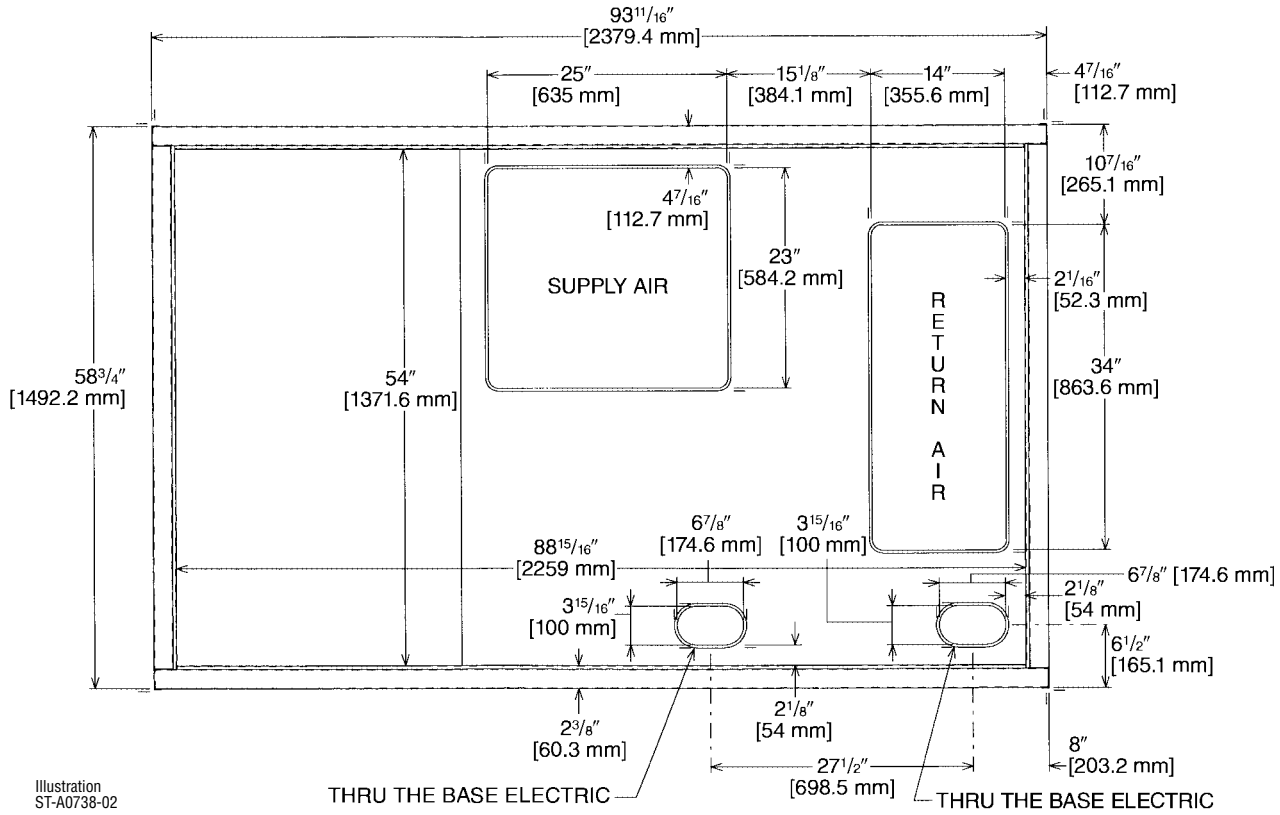
PACKAGE AIR CONDITIONER
7.5 TO 12.5 TON [26.4 TO 44.0 kW]

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



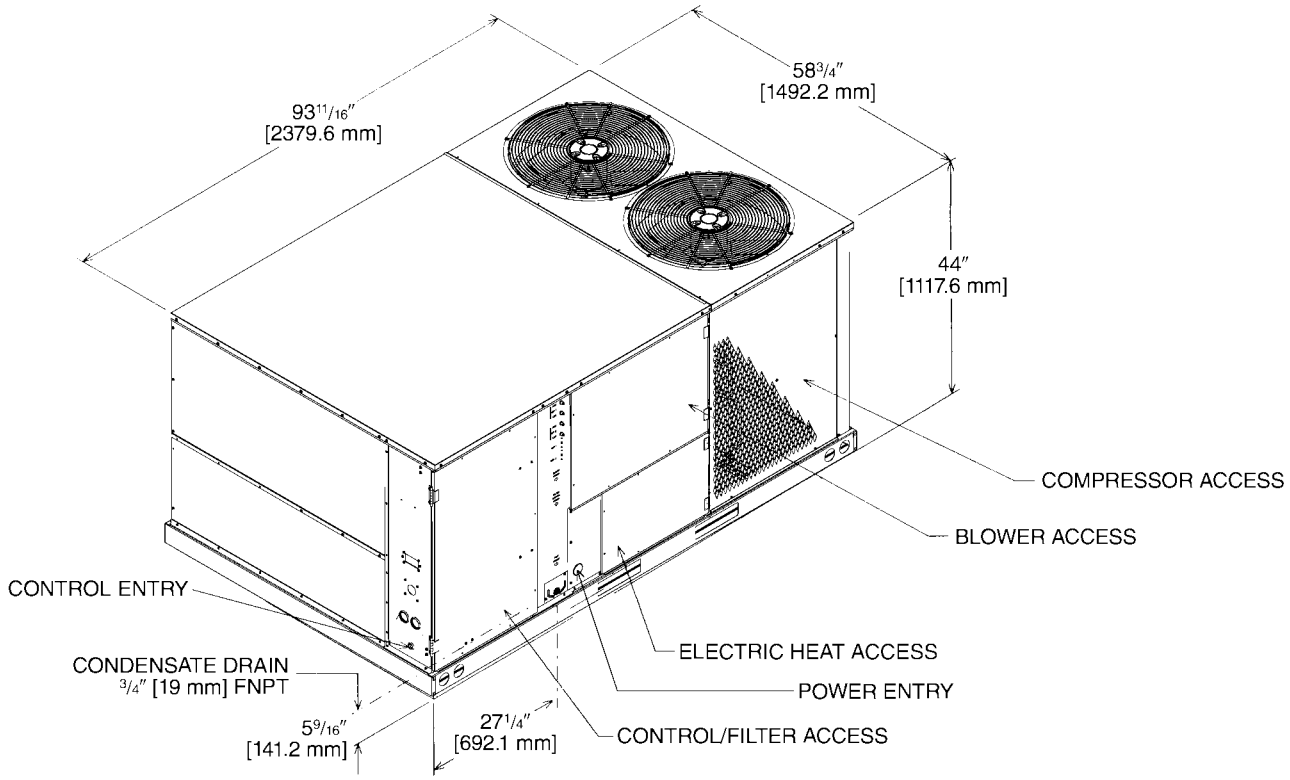
***RECOMMENDED DUCT DIMENSIONS ARE 26"**

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



[ ] Designates Metric Conversions

PACKAGE AIR CONDITIONER
7.5 TO 12.5 TON [26.4 TO 44.0 kW]



[ ] Designates Metric Conversions

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
6-12.5 [21.1-44.0]	33%	27%	17%	23%

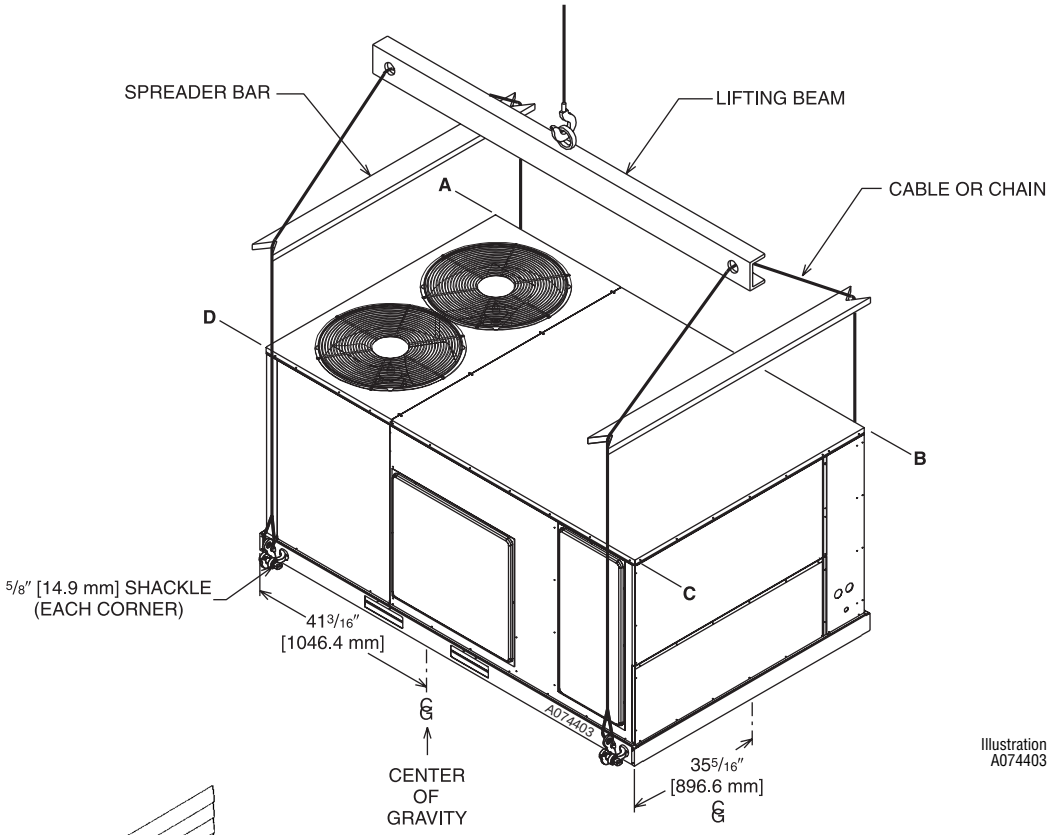
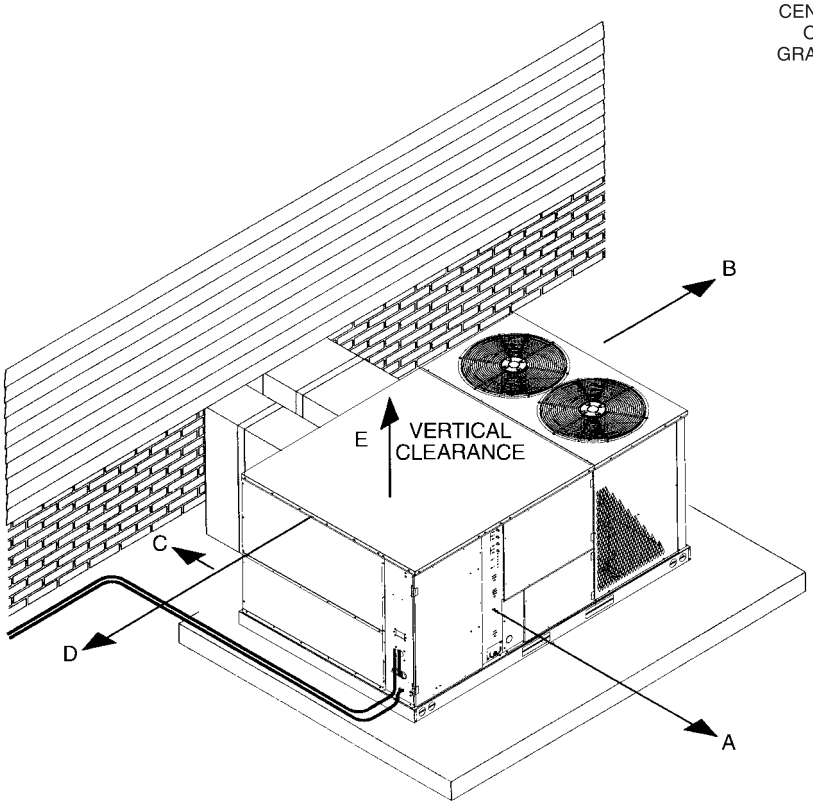


Illustration A074403



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 Suffix C = 200-220 50 Hz D = 380-415 50 Hz	RXJJ-CC10 (C or D)	46 [20.9]	36 [16.3]	Yes
	RXJJ-CC15 (C or D)	46 [20.9]	36 [16.3]	Yes
	RXJJ-CC20 (C or D)	46 [20.9]	36 [16.3]	Yes
	RXJJ-CC30 (C or D)	47 [21.3]	37 [16.8]	Yes
	RXJJ-CC40 (C or D)	49 [22.2]	39 [17.7]	Yes
	RXJJ-CC41 (C or D)	49 [22.2]	39 [17.7]	Yes
	RXJJ-CC50 (C or D)	51 [23.1]	41 [18.6]	Yes
Economizer w/Single Enthalpy	RXRD-PDCM3	90 [40.8]	81 [36.7]	Yes
Economizer w/Single Enthalpy and Smoke Dectector	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-AAD01C (6-10 Ton) ④	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.
④ Standard on 12½ ton

[ ] Designates Metric Conversions

THERMOSTATS

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.*

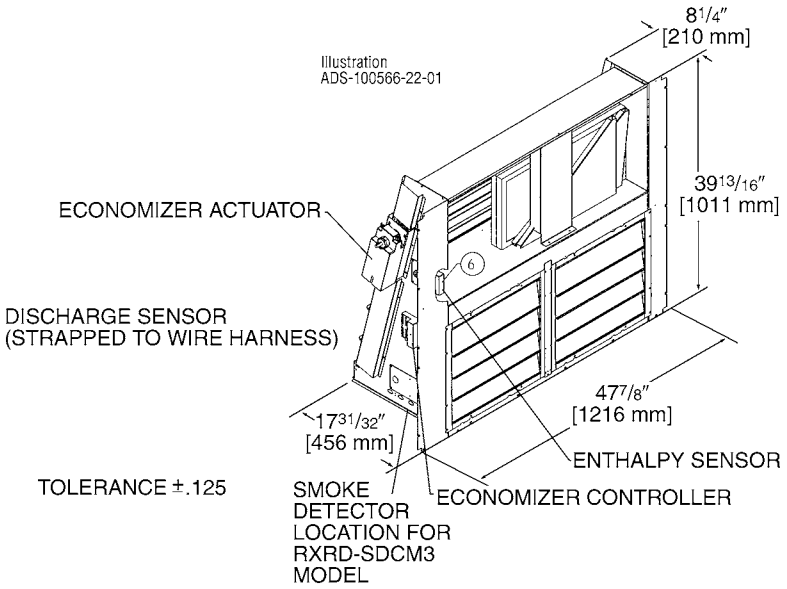
For detailed thermostat match-up information, see specification sheet form number T11-001.

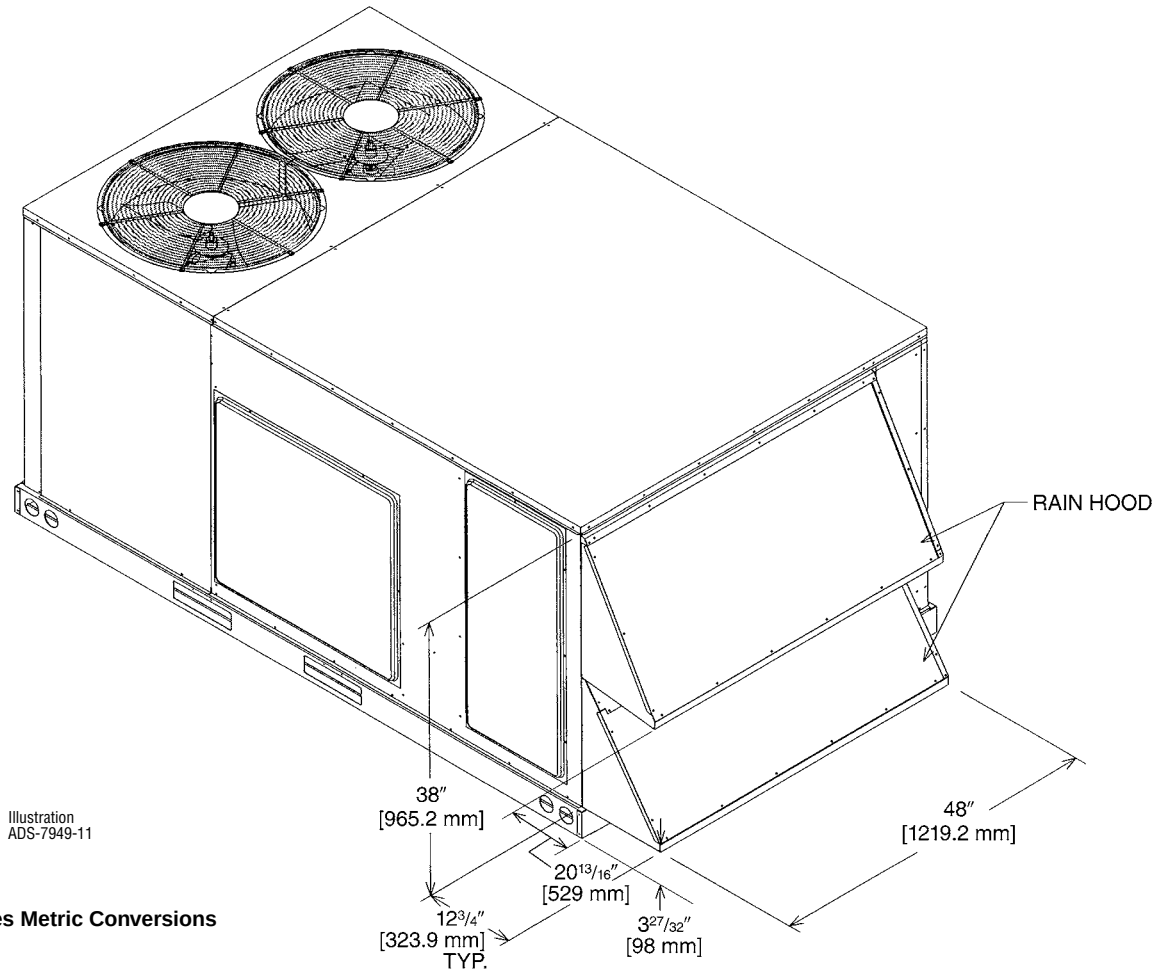
ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

Use to Select Factory Installed Options Only

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





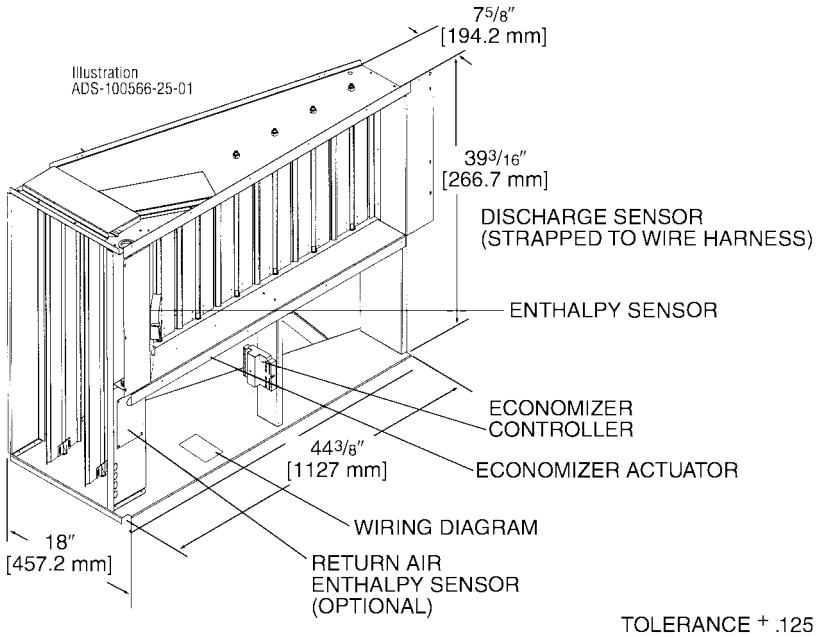
[ ] Designates Metric Conversions

ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

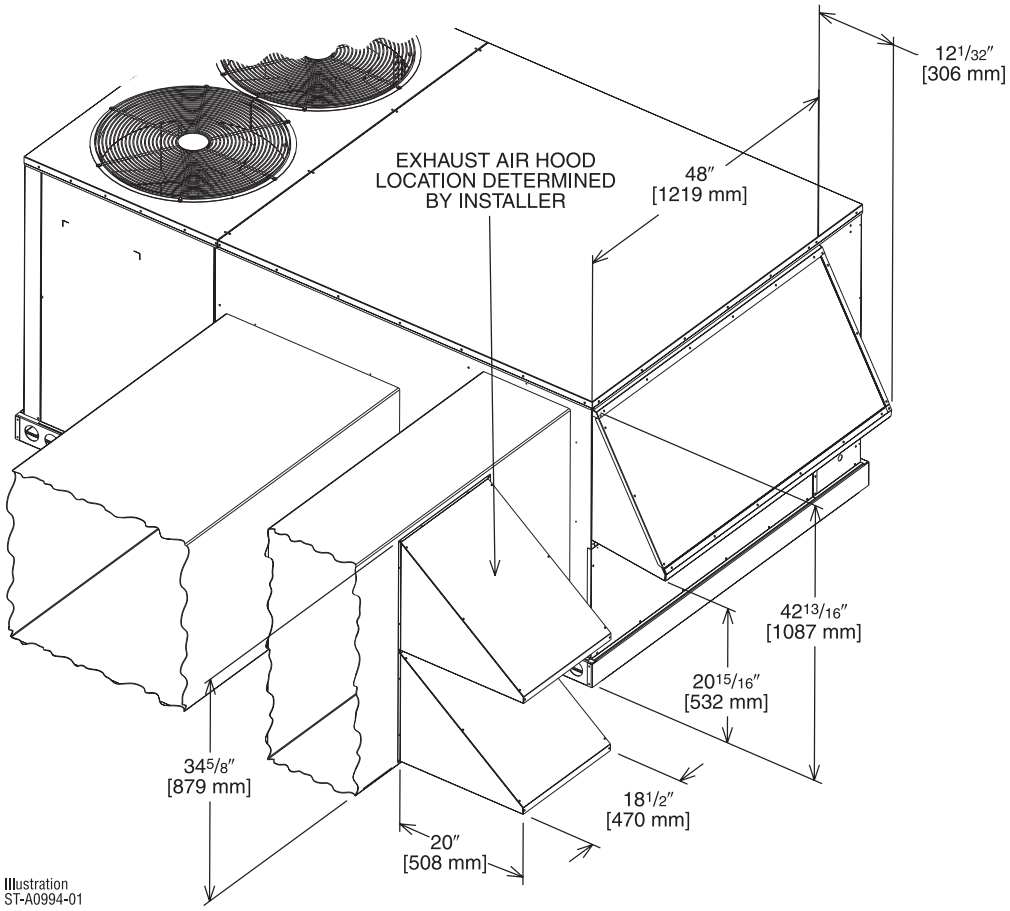
Field Installed Only

RXRD-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



TOLERANCE + .125



[ ] Designates Metric Conversions

FRESH AIR DAMPER

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

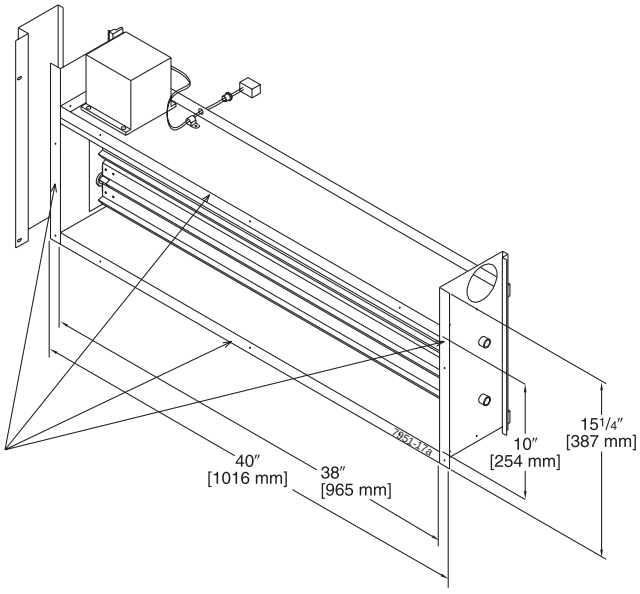


Illustration
ST-7951-17

[ ] Designates Metric Conversions

RXRF-KDA1 (Manual)

DOWNFLOW OR
HORIZONTAL APPLICATION

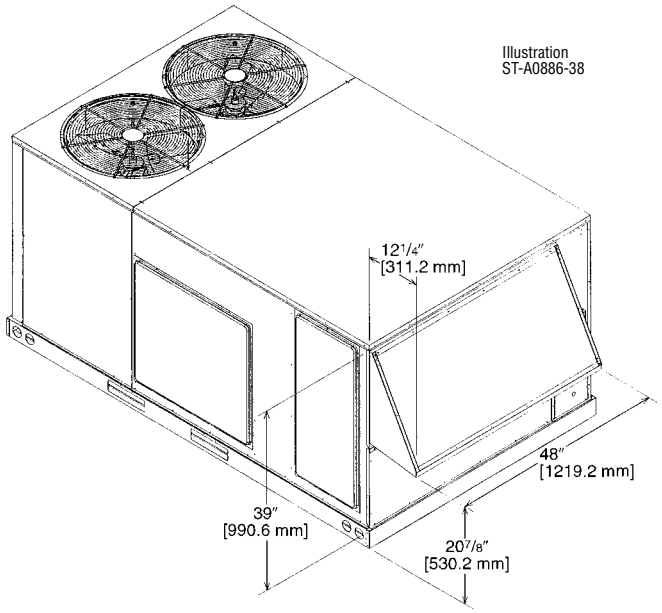


Illustration
ST-A0886-38

FRESH AIR DAMPER (Cont.)

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

DOWNFLOW APPLICATION

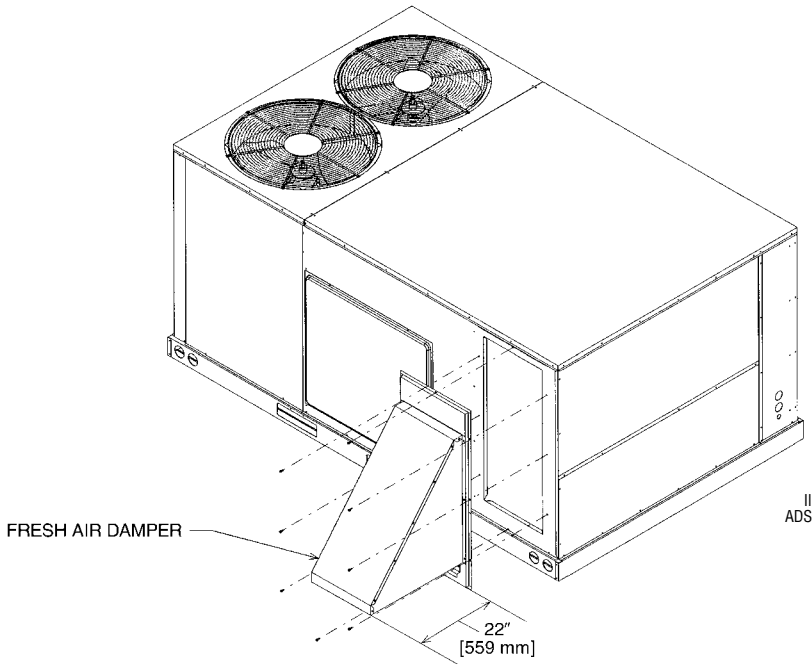
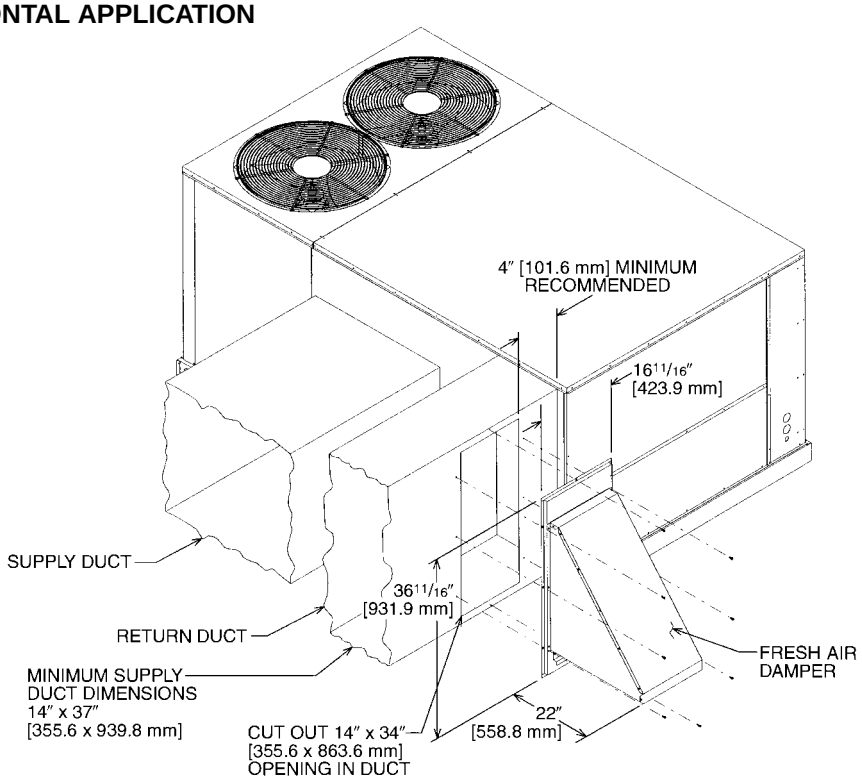


Illustration
ADS-7937-58

HORIZONTAL APPLICATION

Illustration
ST-A0901-01



[ ] Designates Metric Conversions

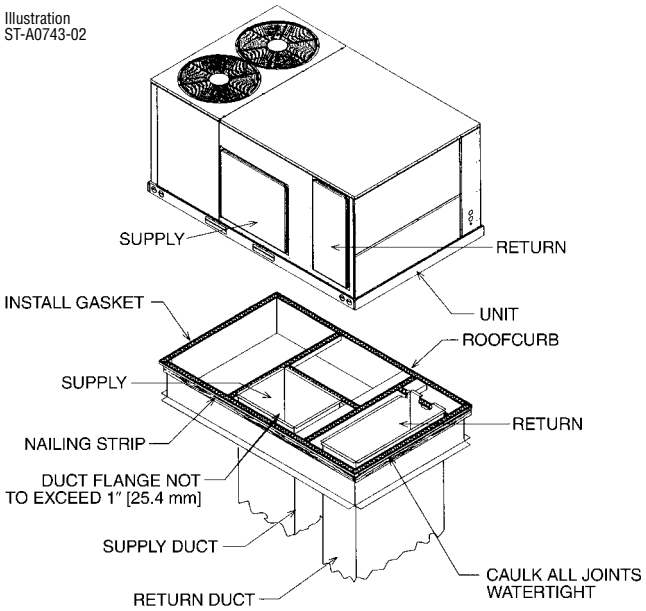
ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on all 7.5-12.5 ton [26.4-44.0 kW] RLNL-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

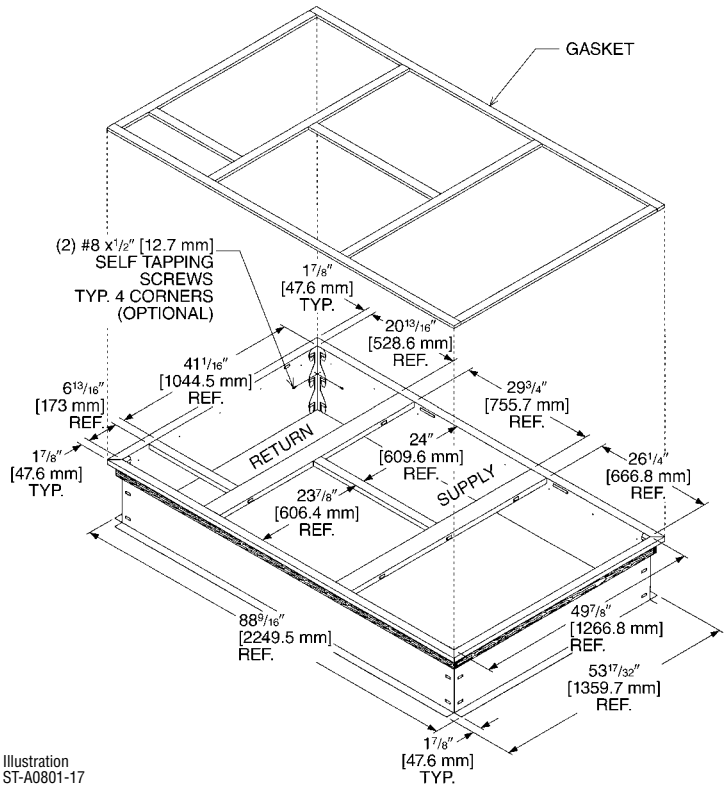
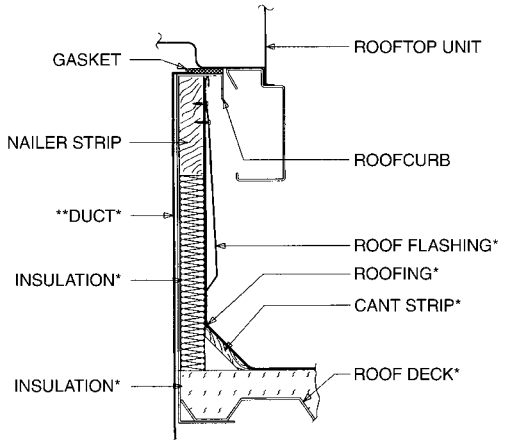


Illustration
ST-A0801-17



*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

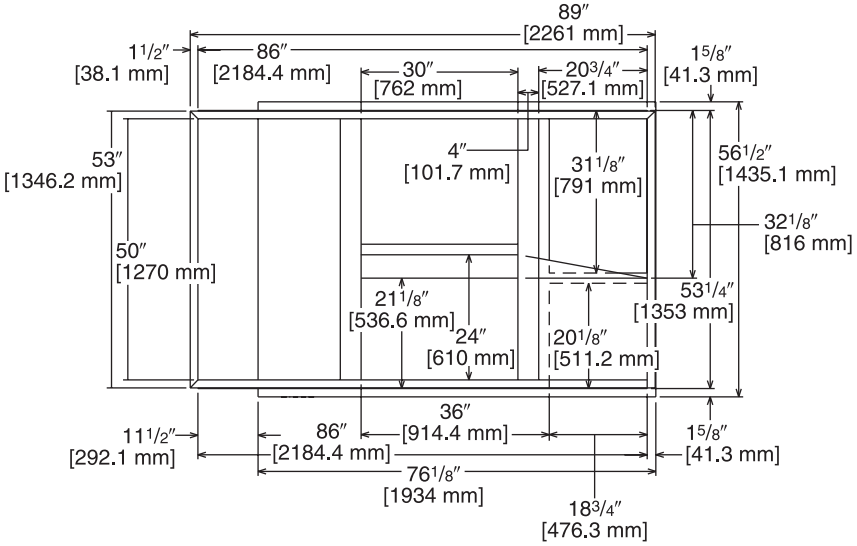
OLD MODELS	OLD ROOFCURB	ROOFCURB ADAPTER	NEW MODELS (All Share Common Cabinet)
(-)RCF, (-)REF-075/076 (-)RGF-150075, (-)RGF-131076 (-)RGF-201076	RXRK-E50	RXRX-CDCE50	
(-)RGF-200075 (-)RGG, (-)REG, (-)RCG-075 (-)RGF, (-)REF, (-)RCF-085 (-)RGF, (-)REF, (-)RCF-100 (-)RGG, (-)REG, (-)RCG-100	RXRK-E54	RXRX-CFCE54	(S)LNL-B072 (S)LNL-B090 (S)LNL-B102 (S)LNL-B120 (S)LNL-B150
(-)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.
SLNL-B072, B085, B090, B102, B120, B150 fit on same roofcurb as the RLKB-A090, A102, A120, A150, A181, RLMB- A090, A102, A120, A150, RLNB- A090, A102, A120

ROOFCURB ADAPTERS (Cont.)

RXRX-CDCE50

Illustration
ADS-7952-02
Sheet 2



TOP VIEW

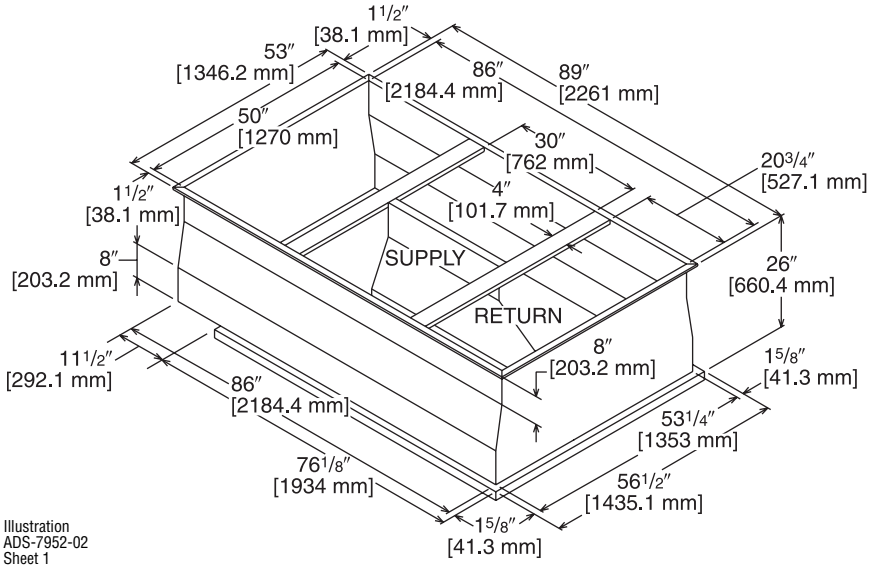


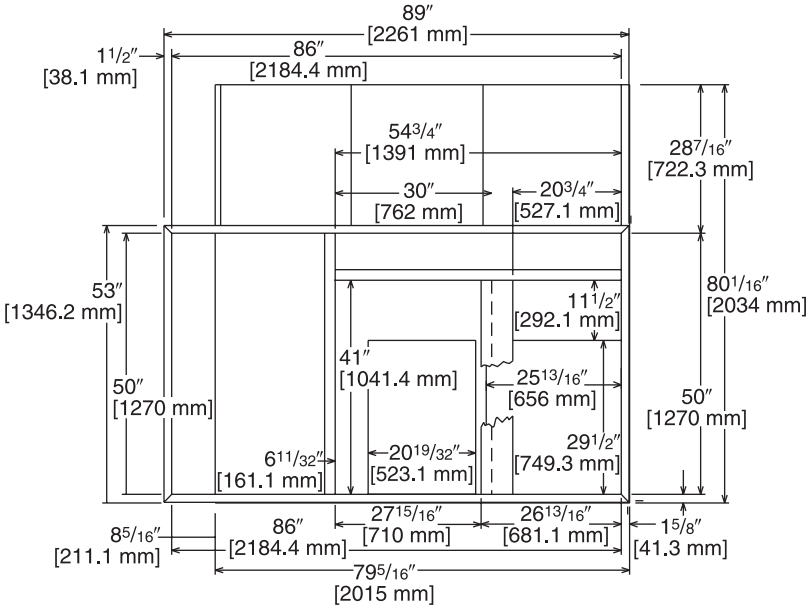
Illustration
ADS-7952-02
Sheet 1

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

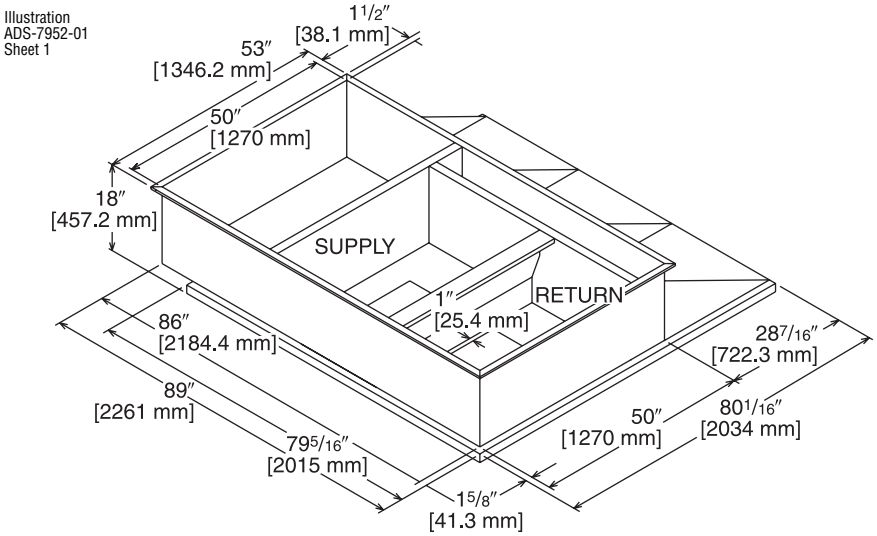
RXRX-CFCE54

Illustration
ADS-7952-01
Sheet 2



TOP VIEW

Illustration
ADS-7952-01
Sheet 1

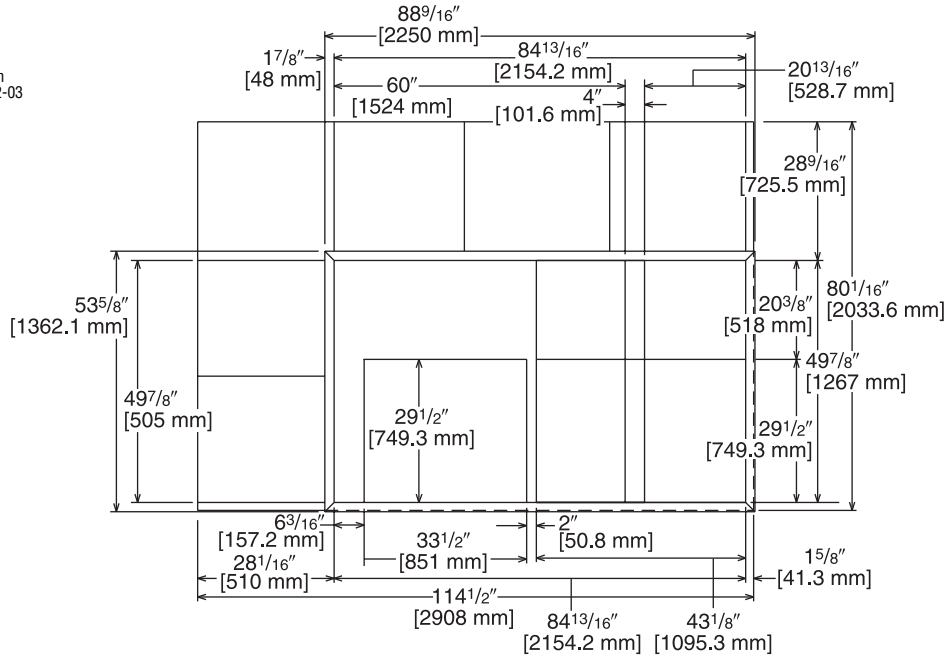


[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

RXRX-CFCE56

Illustration
ADS-7952-03
Sheet 2



TOP VIEW

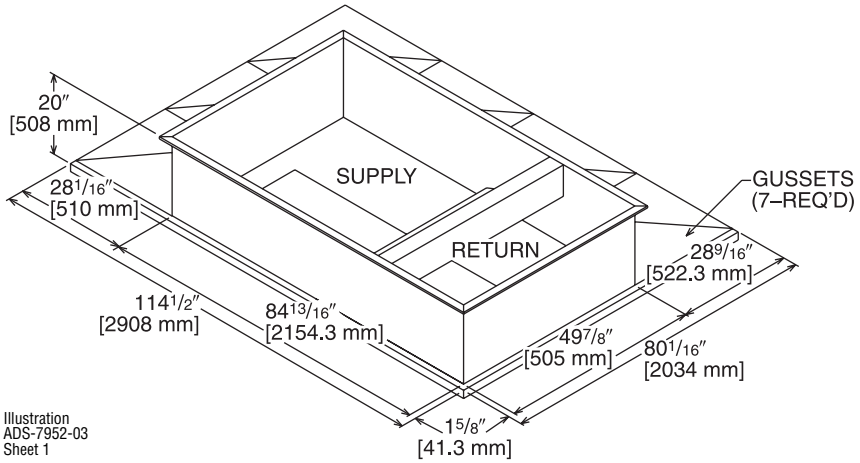


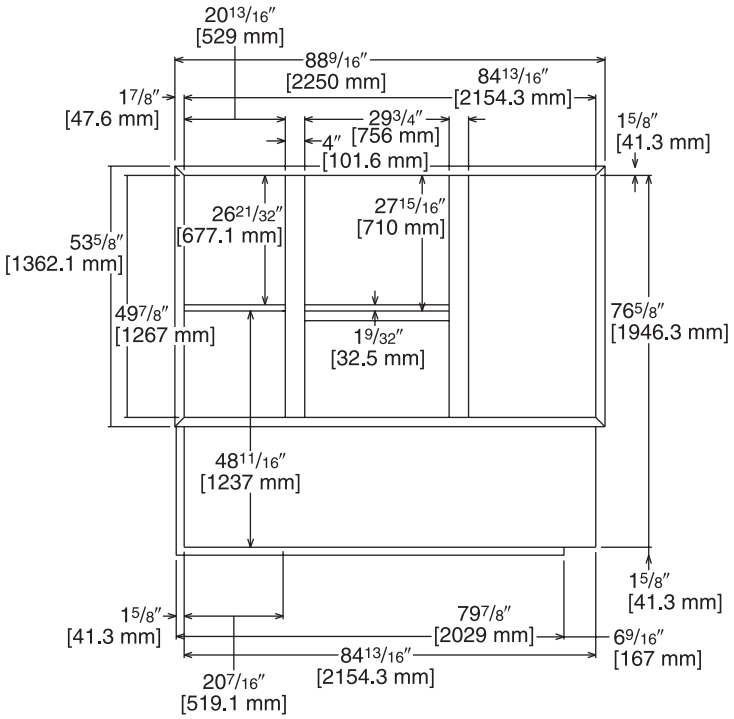
Illustration
ADS-7952-03
Sheet 1

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (Cont.)

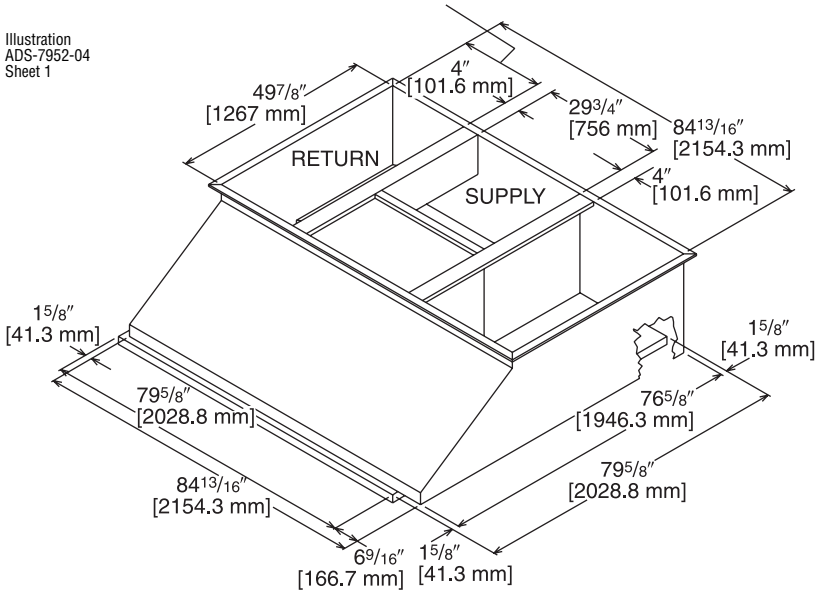
RXRX-CGCC12

Illustration
ADS-7952-04
Sheet 2



TOP VIEW

Illustration
ADS-7952-04
Sheet 1



[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER APPLICATION

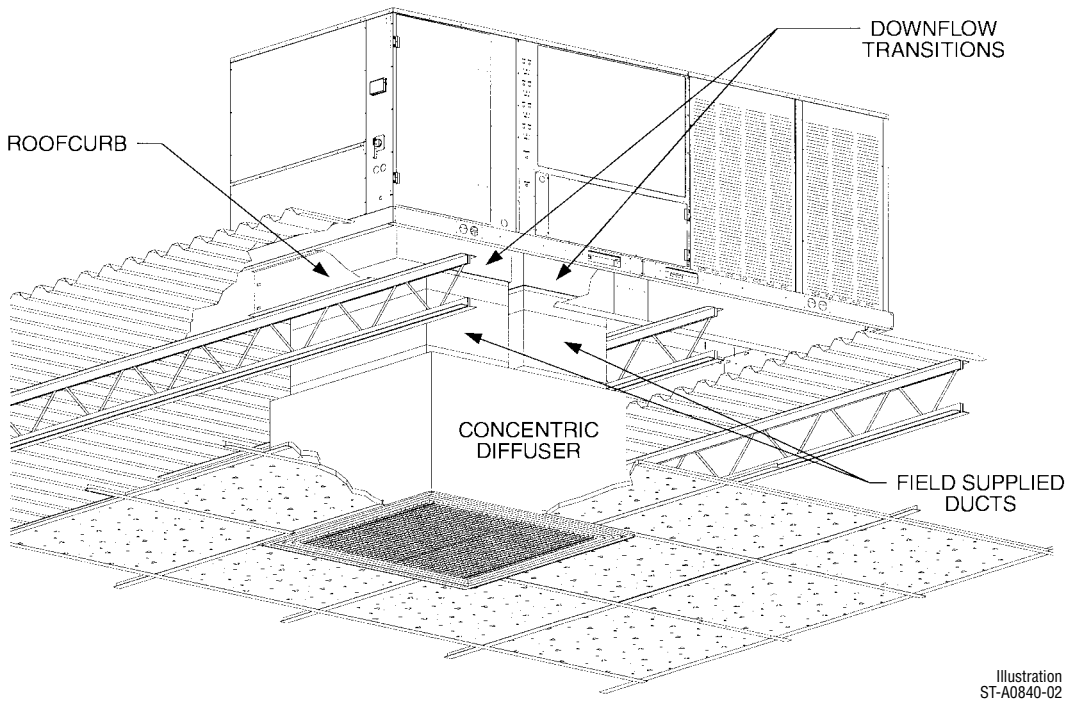


Illustration
ST-A0840-02

DOWNFLOW TRANSITION DRAWINGS

RXMC-CE05

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

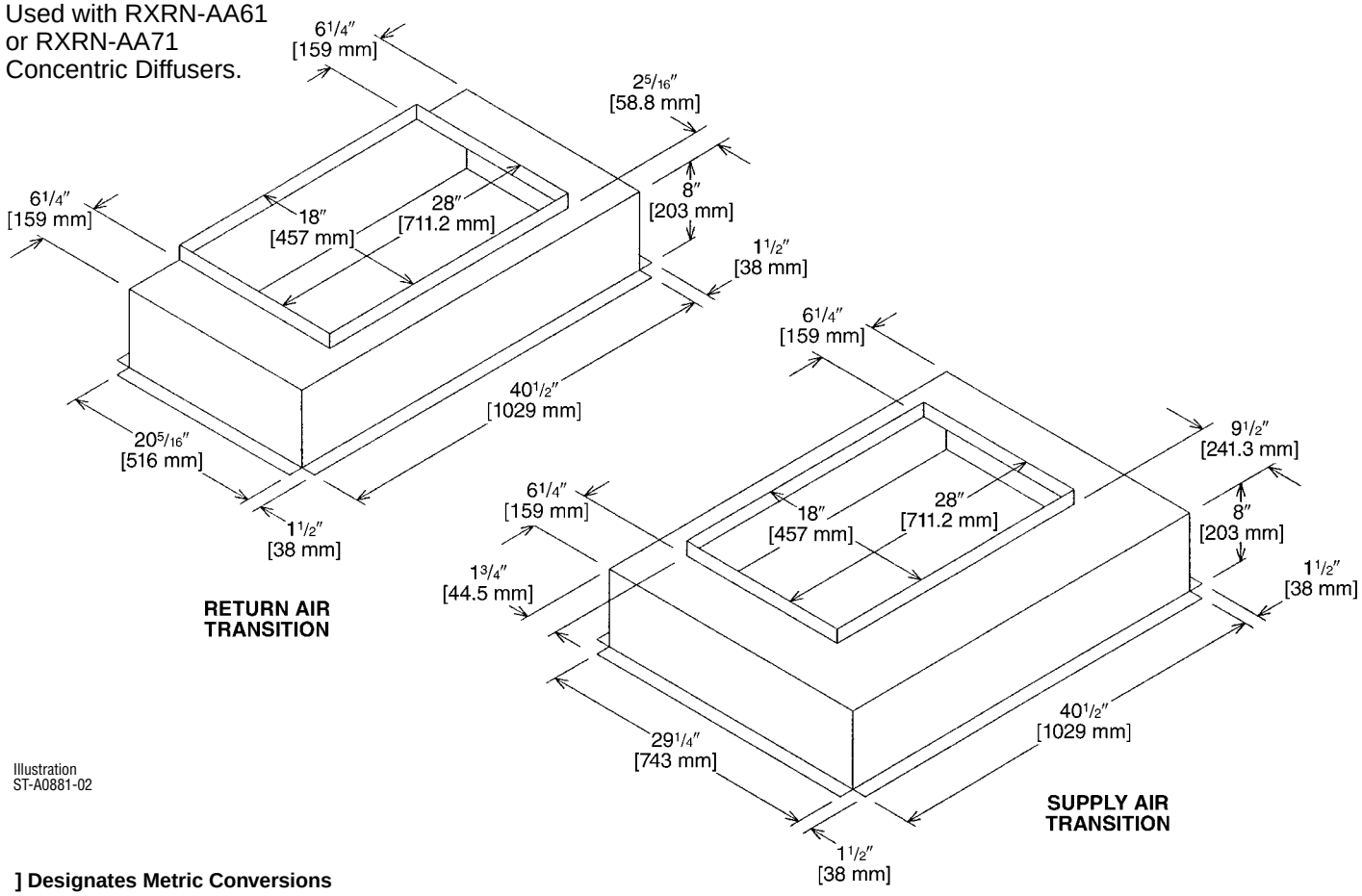


Illustration
ST-A0881-02

[ ] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CF06

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

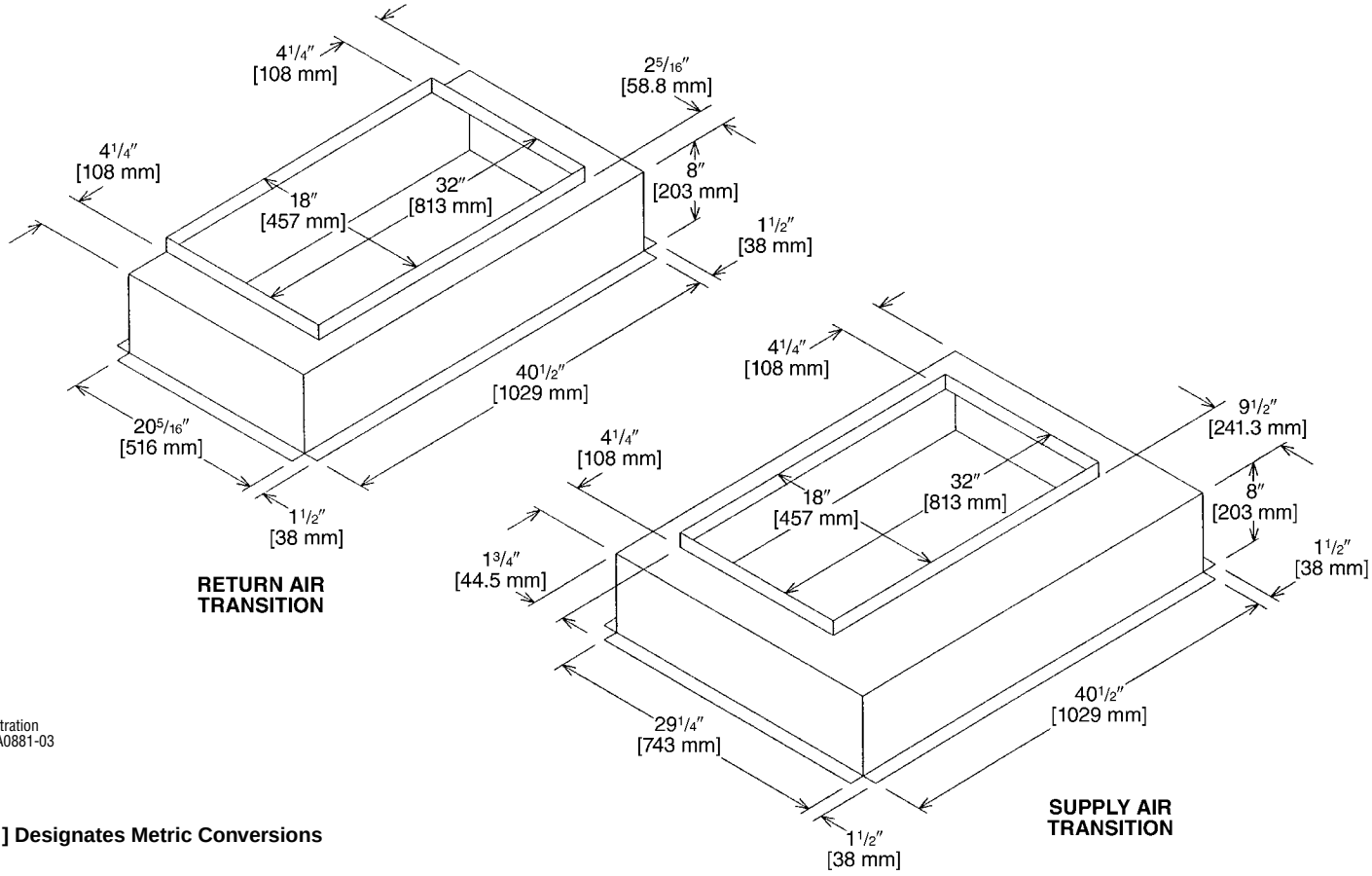


Illustration
ST-A0881-03

[ ] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CD04

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

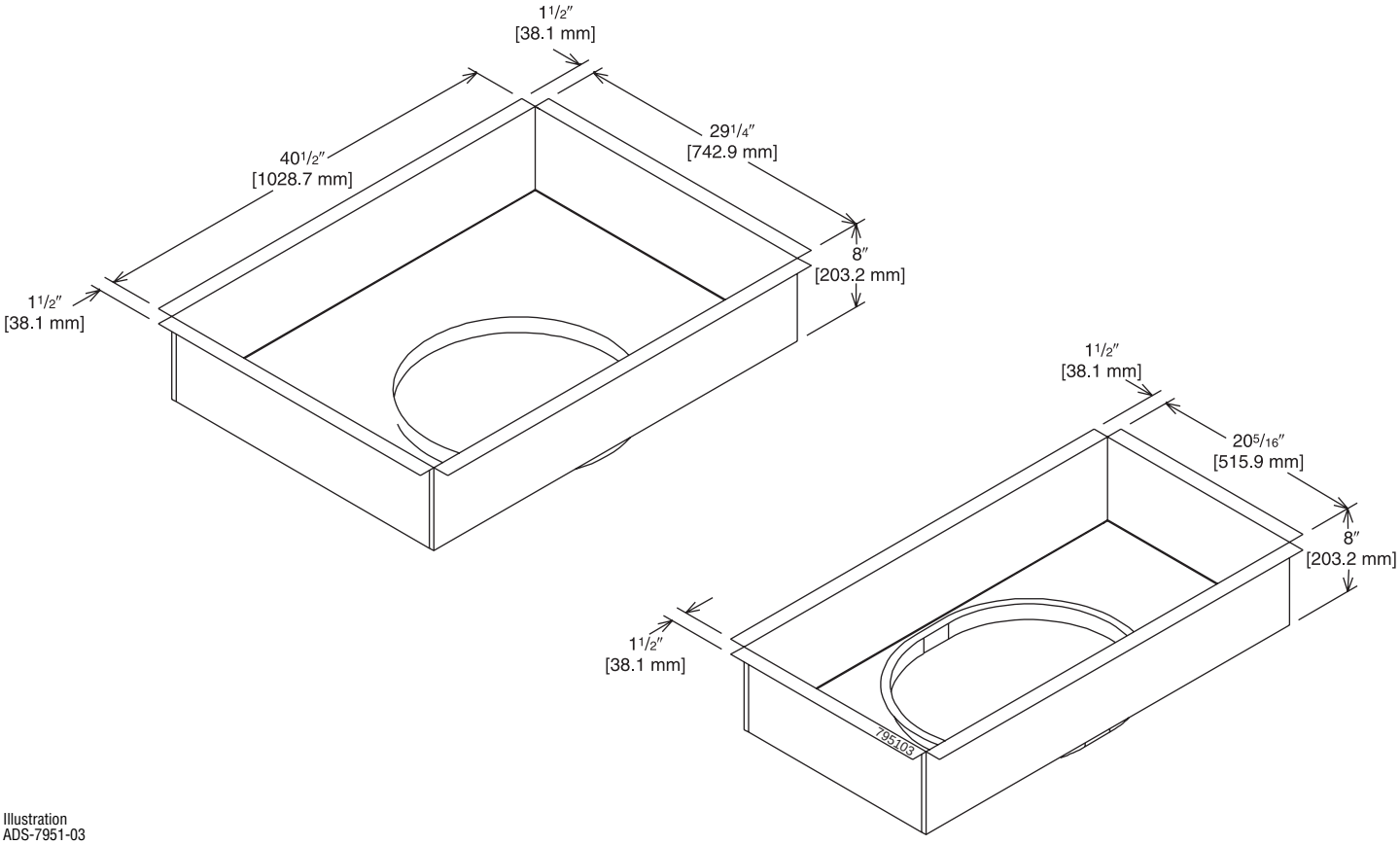


Illustration
ADS-7951-03

[ ] 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.

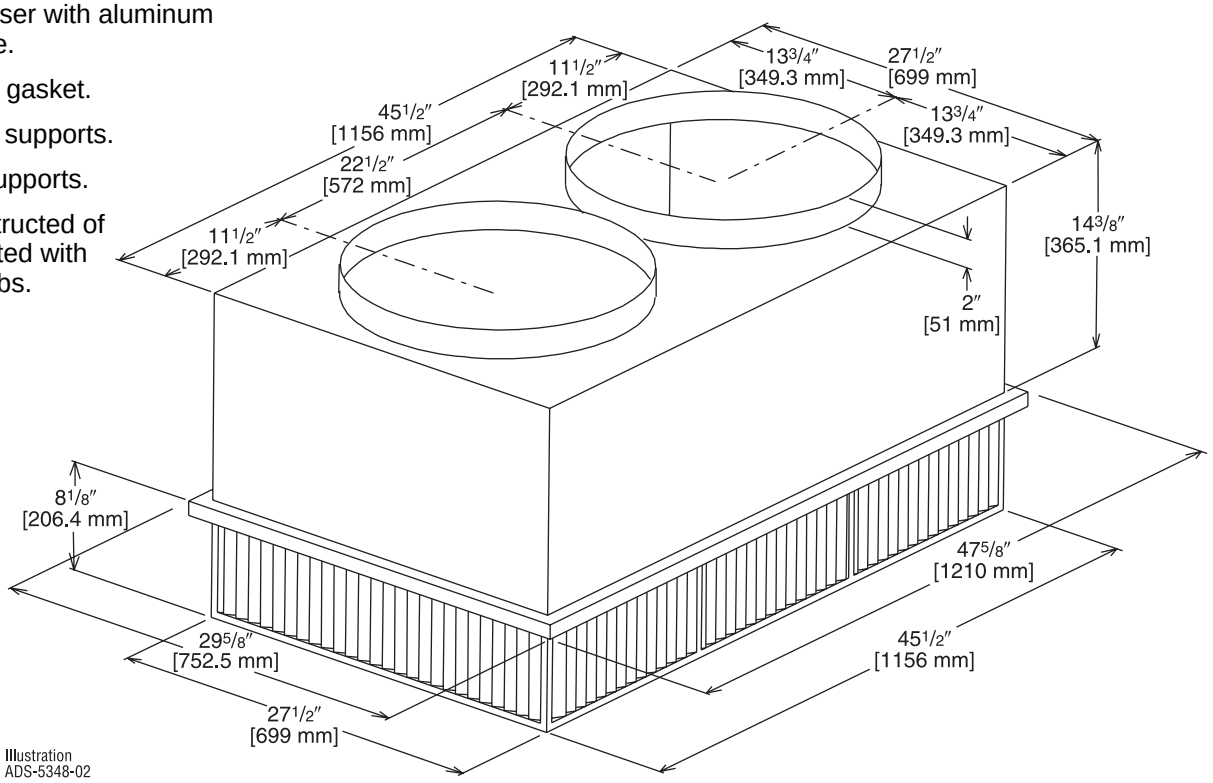


Illustration ADS-5348-02

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.

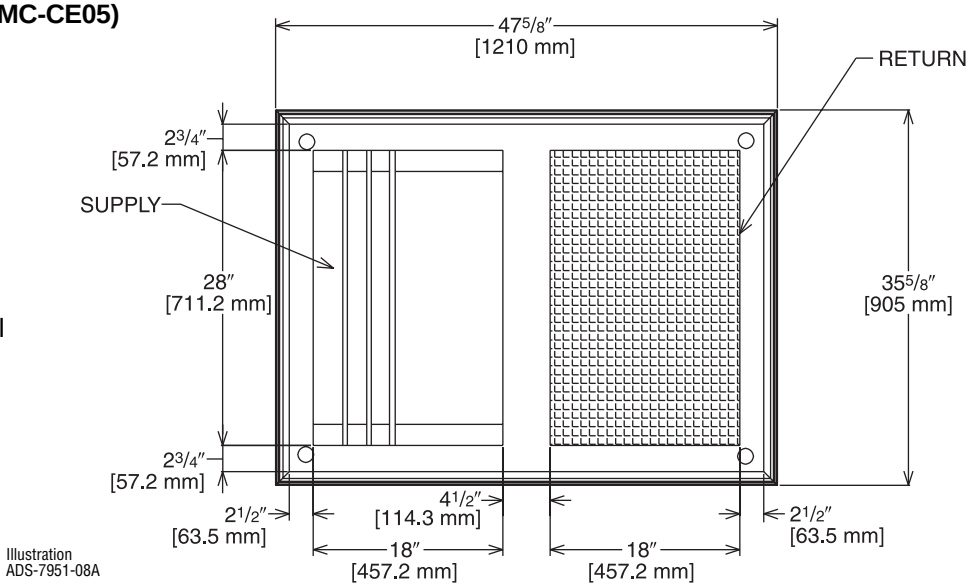


Illustration ADS-7951-08A

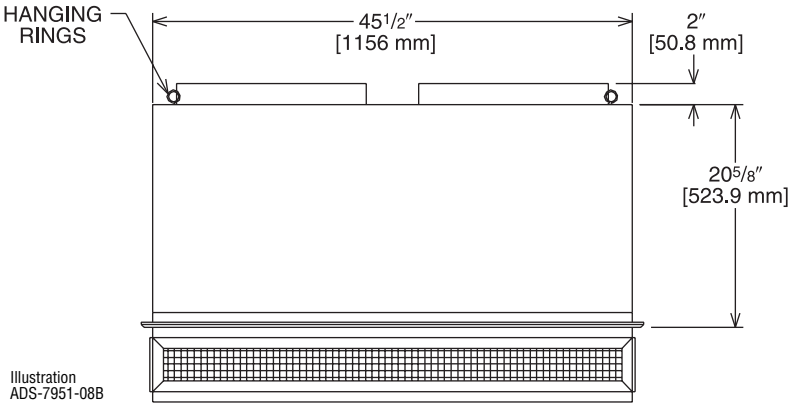


Illustration ADS-7951-08B

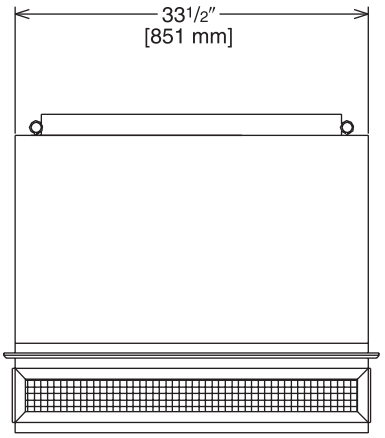


Illustration ADS-7951-08C

ENGINEERING DATA①

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ②③ 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

CONCENTRIC DIFFUSER—STEP DOWN 18" x 32" [457.2 x 813 mm]

RXRN-AA66 (12.5 & 15 Ton [44.0 & 52.8 kW] Models)

For Use With Downflow Transition (RXMC-CF06) and 18" x 32" [457.2 x 813 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.

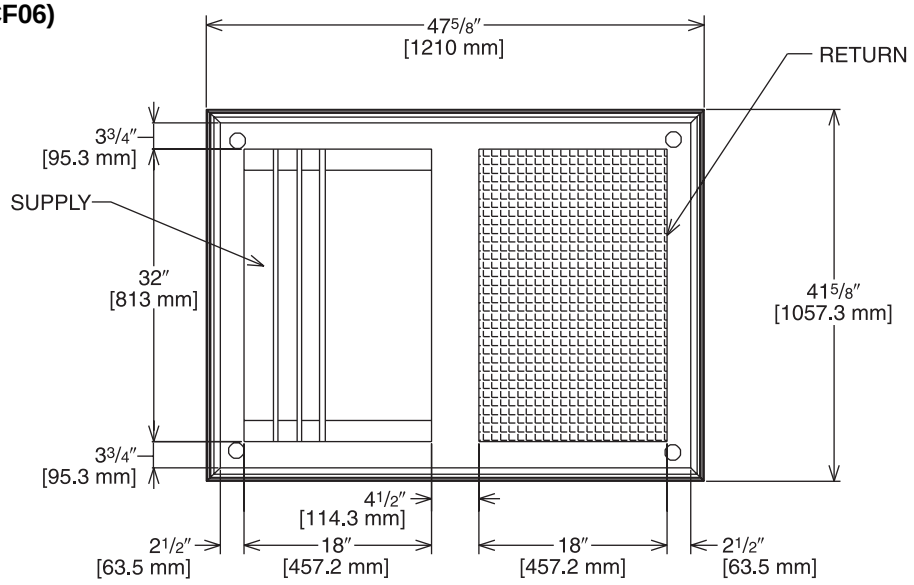
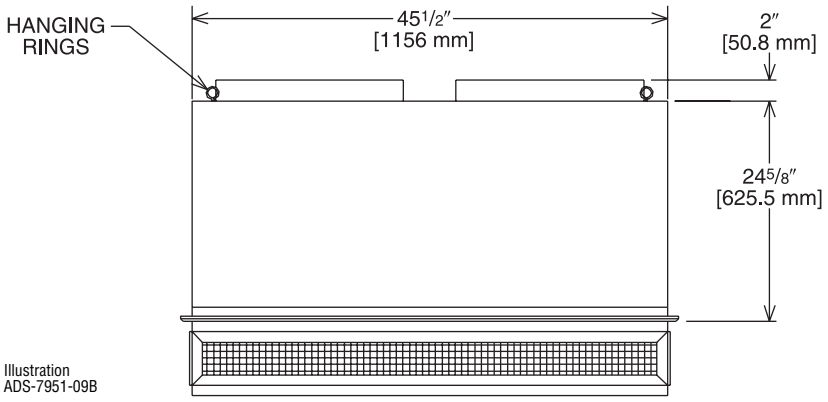


Illustration ADS-7951-09A



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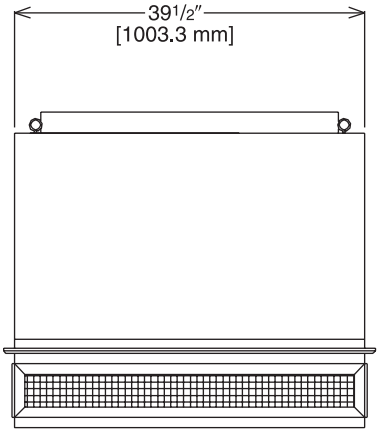


Illustration ADS-7951-09C

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-AA66	4600 [2171]	0.31 [0.077]	26-31 [7.9-9.4]	841 [4.3]	30
	4800 [2265]	0.32 [0.080]	27-32 [8.2-9.8]	878 [4.5]	30
	5000 [2359]	0.34 [0.085]	28-33 [8.5-10.1]	915 [4.6]	30
	5200 [2454]	0.36 [0.090]	28-34 [8.5-10.4]	951 [4.8]	30
	5400 [2548]	0.39 [0.097]	29-35 [8.8-10.7]	988 [6.0]	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.

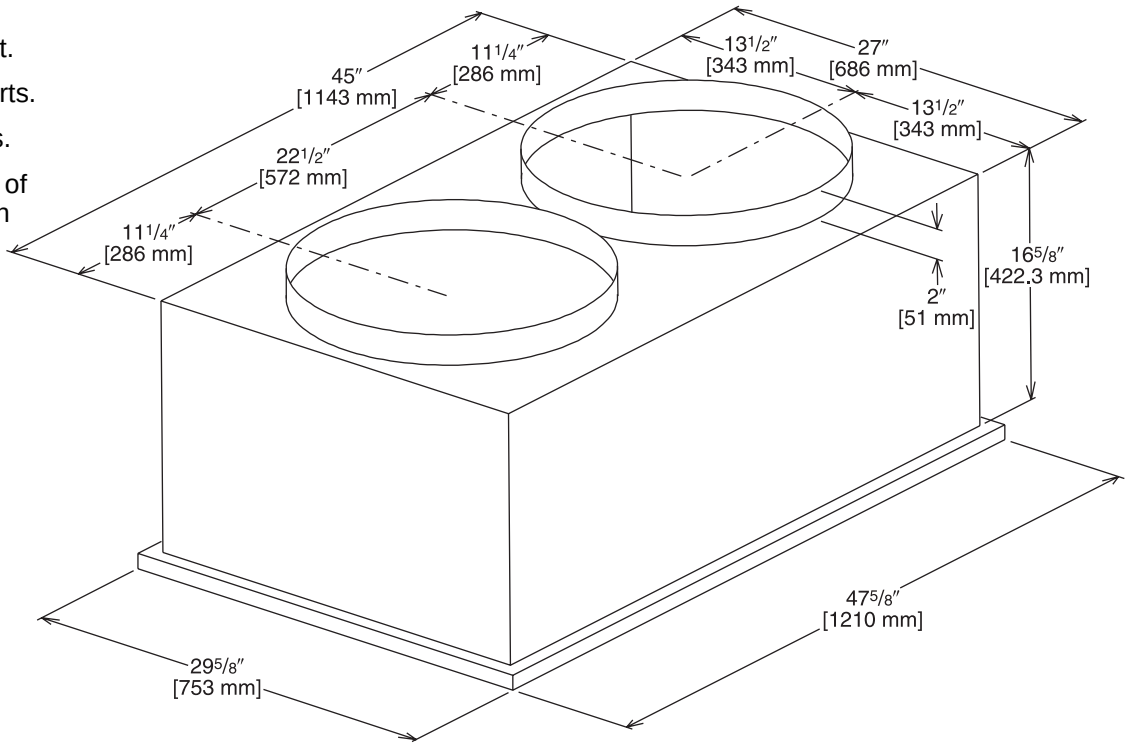


Illustration
ADS-5348-04

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.

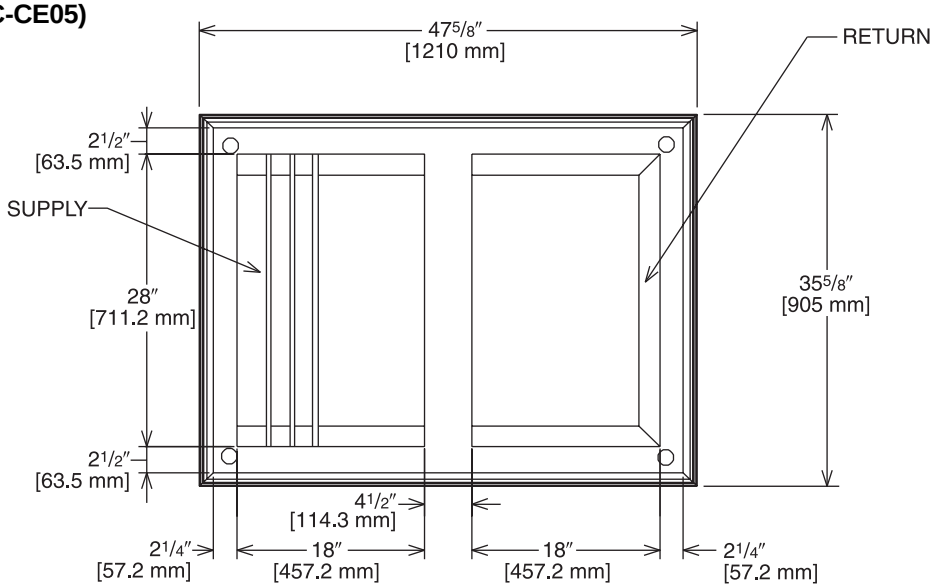


Illustration ADS-7951-06A

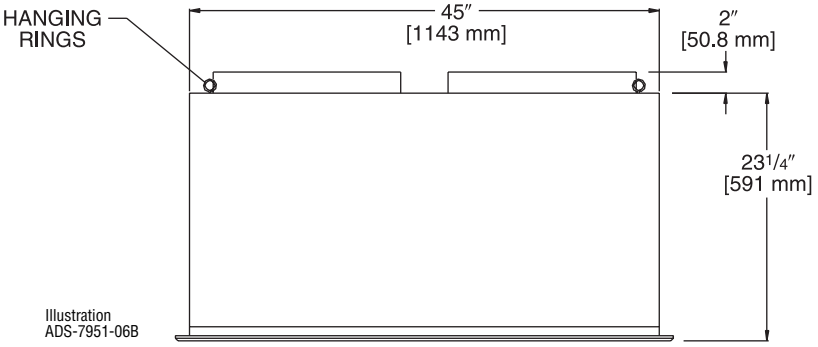


Illustration ADS-7951-06B

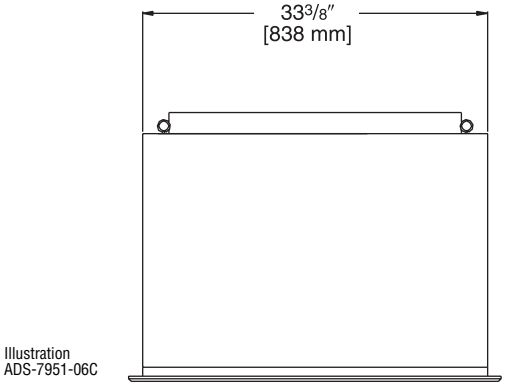


Illustration ADS-7951-06C

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

CONCENTRIC DIFFUSER—FLUSH 18" x 32" [457.2 x 813 mm]

RXRN-AA76 (12.5 & 15 Ton [44.0 & 52.8 kW] Models)

For Use With Downflow Transition (RXMC-CF06) and 18" x 32" [457.2 x 813 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.

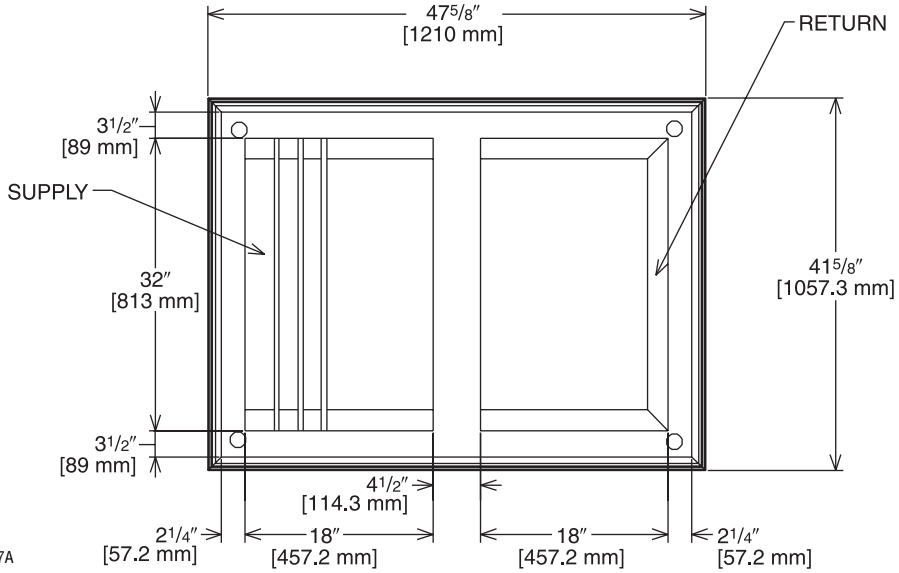


Illustration ADS-7951-07A

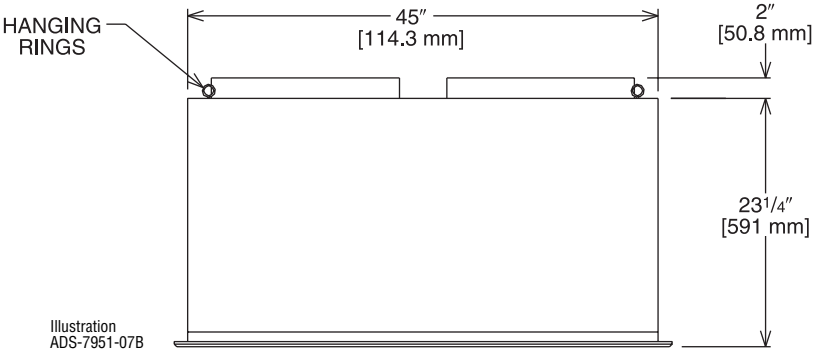


Illustration ADS-7951-07B

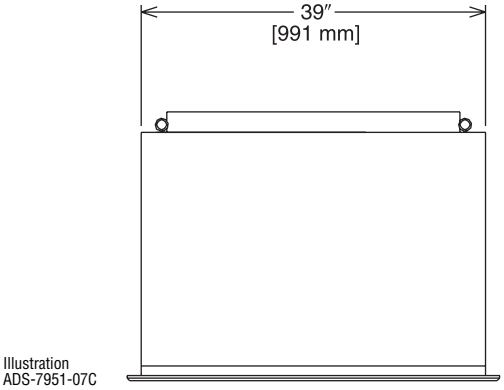


Illustration ADS-7951-07C

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-AA76	4600 [2171]	0.31 [0.077]	25-34 [7.6-10.4]	922 [4.7]	40
	4800 [2265]	0.32 [0.080]	26-35 [7.9-10.7]	962 [4.9]	40
	5000 [2359]	0.34 [0.085]	27-36 [8.2-11.0]	1002 [5.1]	40
	5200 [2454]	0.36 [0.090]	30-39 [9.1-11.9]	1043 [5.3]	45
	5400 [2548]	0.39 [0.097]	32-41 [9.8-12.5]	1083 [5.5]	45

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). 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.

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 TXV except 072 & 085 small orifice refrigerant control expansion device. Service pressure ports, shall be factory-installed as standard.

Evaporator And Condenser Coils
Internally finned, 3/8″ [9.53 mm] copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. Coils shall be leak tested at the factory to ensure pressure integrity. The evaporator coil and condenser coil shall be leak tested to 250 psig and pressure tested to 550 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.

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.

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.

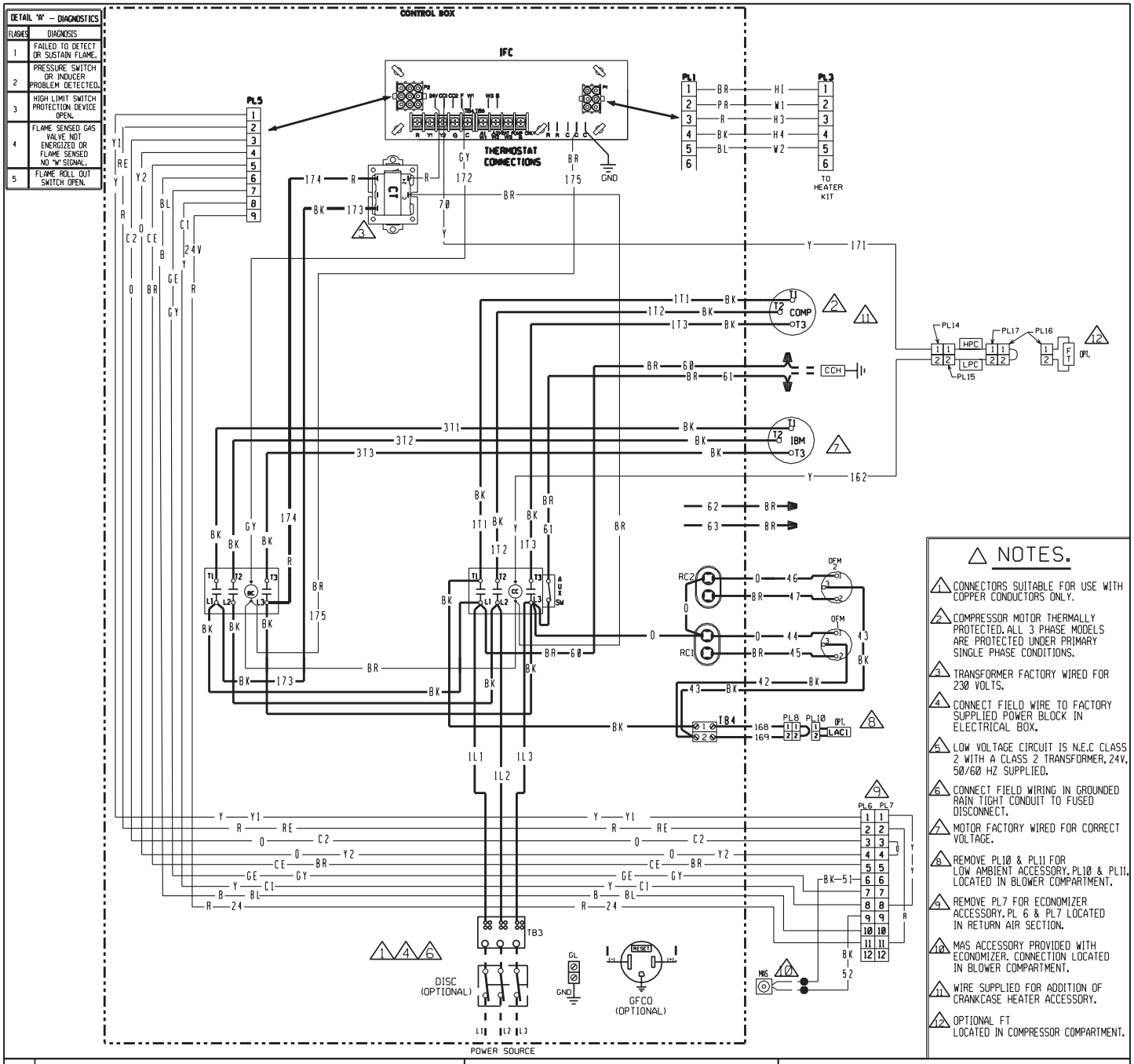
High & Low Pressure Cutout—High & Low pressure cutout shall be standard on all models. All scroll compressors shall include Internal Pressure Relief as standard.

Hinged Access Doors—Stainless steel metal hinges and 1/4 turn fasteners are standard on the Filter/Electrical Access Door, Heat Exchanger door and blower doors.

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.



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

AUX SW	AUXILLIARY SWITCH
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
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

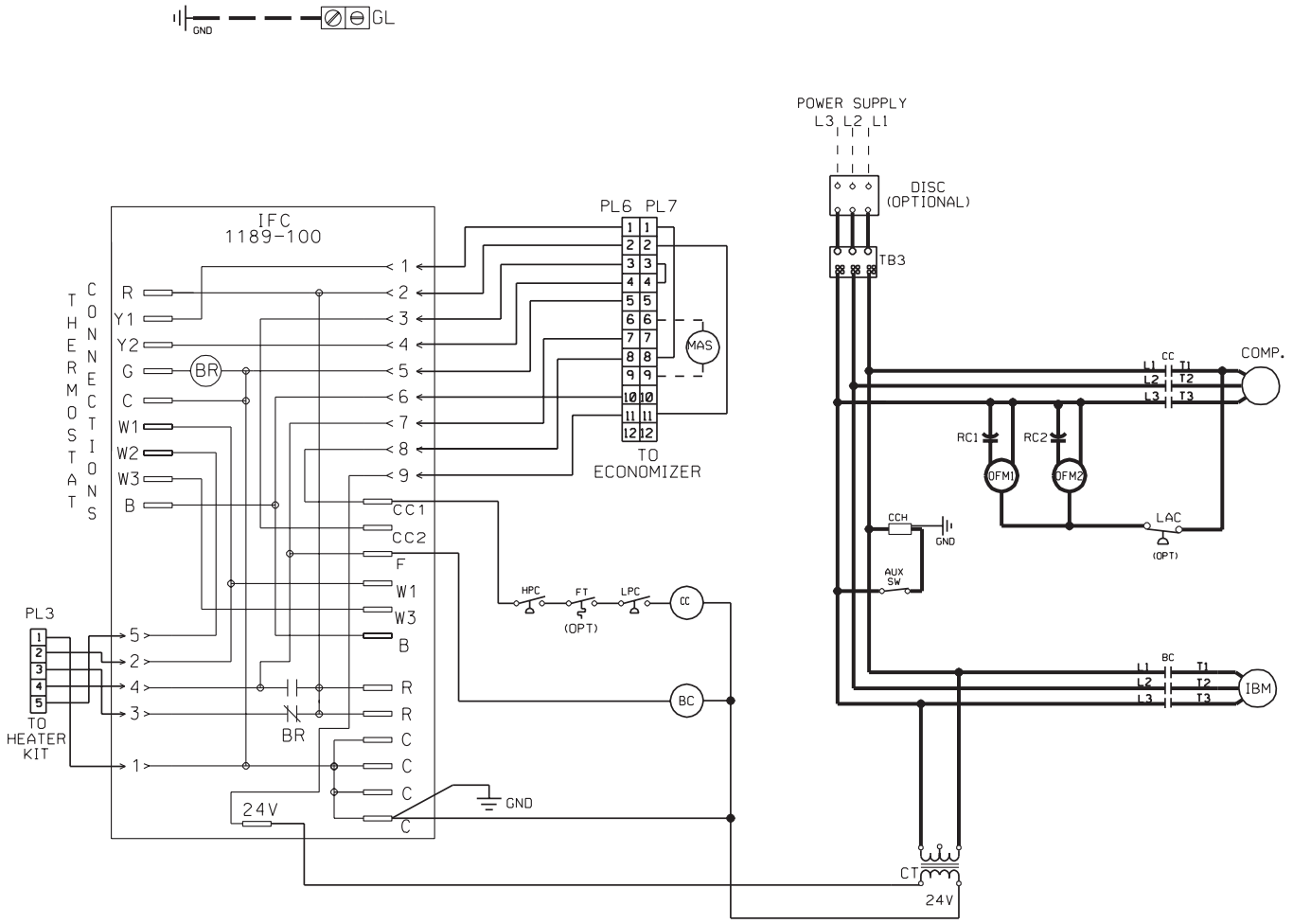
(-)LNL-B072/085

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		5-19-08	90-102892-02	03

90-102892-02 REV 03



COMPONENT CODE

AUX SW	AUXILLIARY SWITCH	MAS	MIXED AIR SENSOR
BC	BLOWER MOTOR CONTACTOR	OFM	OUTDOOR FAN MOTOR
BR	BLOWER RELAY	OPT	OPTIONAL
CC	COMPRESSOR CONTACTOR	PL	PLUG
CCH	CRANKCASE HEATER	RC	RUN CAPACITOR
COMP	COMPRESSOR	TB	TERMINAL BLOCK
CT	CONTROL TRANSFORMER		
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

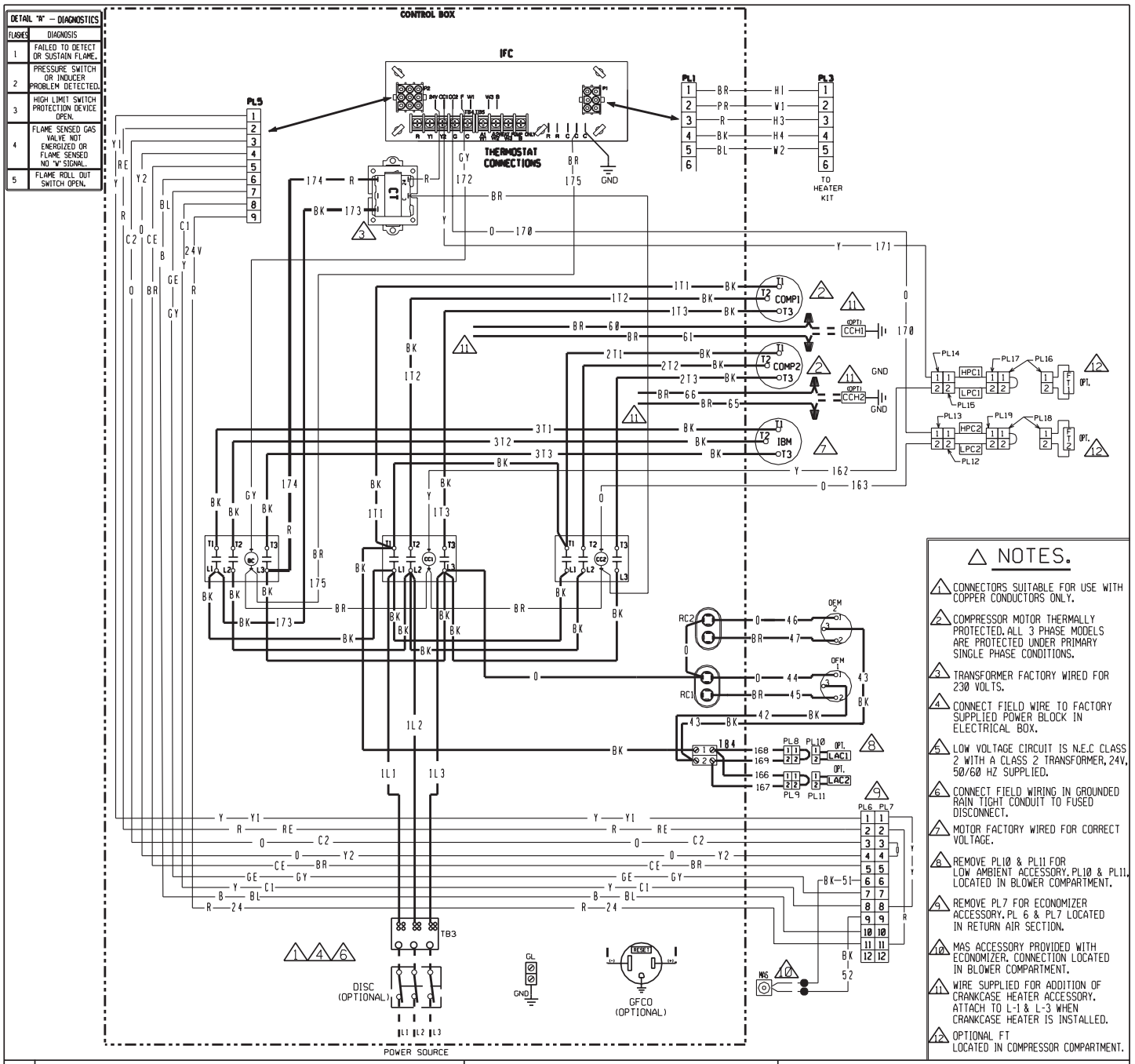
BK	BLACK	O	ORANGE
BR	BROWN	PR	PURPLE
BL	BLUE	R	RED
G	GREEN	W	WHITE
GY	GRAY	Y	YELLOW

WIRING SCHEMATIC
(-)LNL-BØ72/Ø85

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

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR		5-22-08	90-102893-02	Ø1

90-102893-02 REV Ø1



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
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

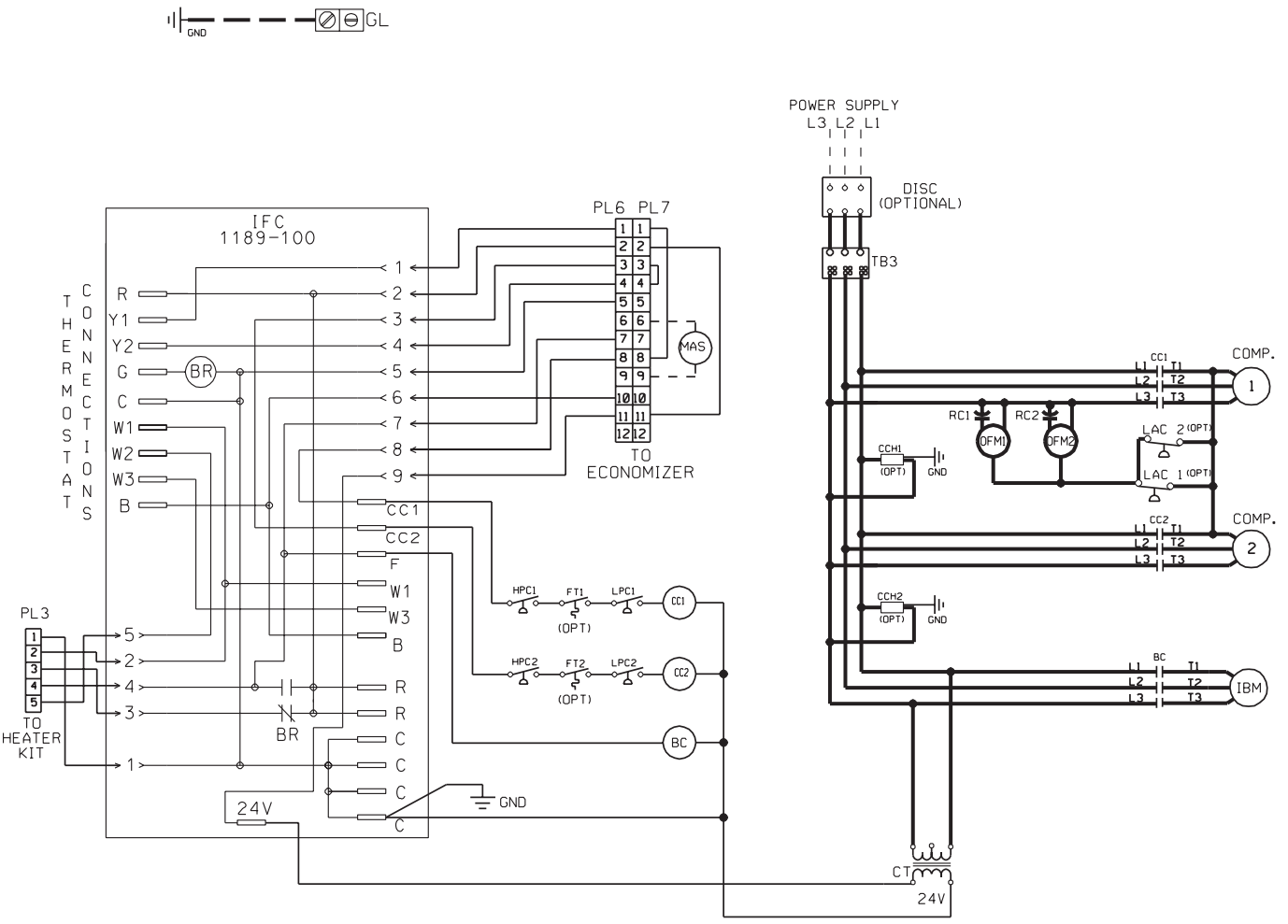
(-)LNL-B090/102/120/150

208-230/460/575V 3 PH, 60 HZ.

200-220/380-415V, 3 PH, 50HZ

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR		5-19-08	90-102892-01	04

90-102892-01 REV 04



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

(-)LNL-B090/102/120/150

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

DR. BY	APP. BY	DATE	DWG. NO.	REV
MGR		5-22-08	90-102893-01	Ø1

90-102893-01 REV Ø1

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."

PRINTED IN U.S.A. 4-10 DC

FORM NO. EXS11-936 REV. 2

Supersedes Form No. EXS11-936 Rev. 1