

Self-Contained Cooling Package Units

FORM NO. S22-944

Featuring Industry Standard R-410A Refrigerant



RLKL-B STANDARD EFFICIENCY SERIES NOMINAL SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-2007 COMPLIANT MODEL

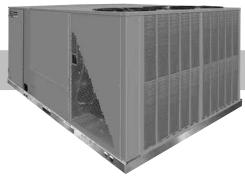






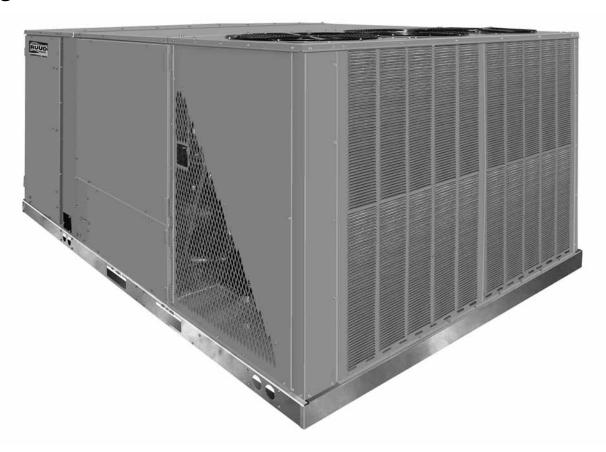






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These quality features are included in the Ruud Package Air Conditioner Unit

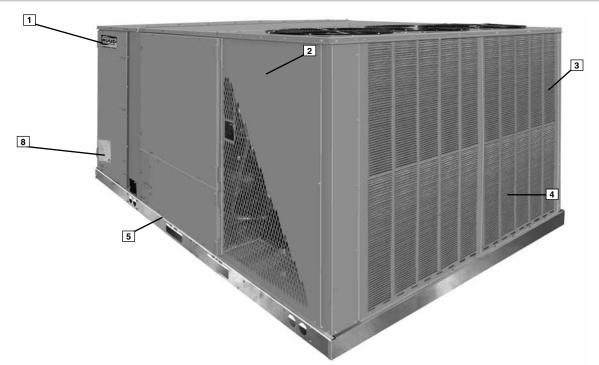


STANDARD FEATURES INCLUDE:

- · R-410A HFC refrigerant.
- · Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and highpressure protection.
- Two independent refrigerant circuits each with a scroll compressor provide two stage cooling operation.
- Convertible airflow vertical downflow or horizontal sideflow.
- · Capillary tube metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- · Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintaining high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- · Hinged major access door with heavy-duty gasketing.
- Slide Out Indoor fan assembly for added service convenience.
- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized.

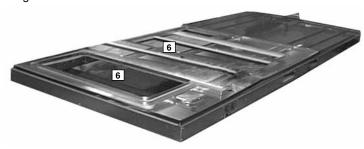
- Base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- · Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable 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 indoor coil.
- · Aluminum MicroChannel outdoor coil(s).
- Supplemental electric heat provides 100% efficient heating.





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

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



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

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

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

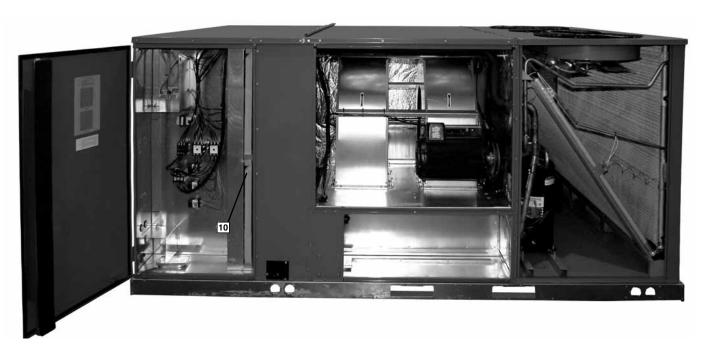
The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them

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.



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

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





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

bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which

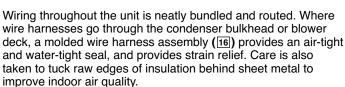


can score the shaft, creating burrs that make blower-pulley removal difficult.



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

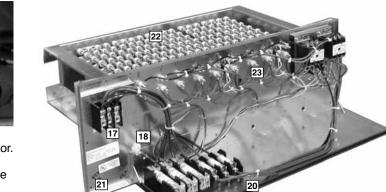
Inside the blower compartment the interlaced evaporator can also be viewed. The evaporator uses enhanced fin technology for maximum heat transfer. The capillary tube metering device assures even distribution of refrigerant throughout the evaporator.



The heating compartment contains the latest electric furnace technology on the market. The 100% efficient electric furnace

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





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

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

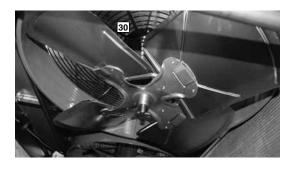




In the outdoor section are the external gauge ports (26). With the gauge ports mounted externally, an accurate diagnosis of system operation can be performed quickly and easily. Also located in this area are the refrigerant safety devices: the lowpressure switches (27), high-pressure switches (28) and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

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

The aluminum MicroChannel outdoor coil uses the latest enhanced fin design (31) for the most effective method of heat transfer with a reduction in refrigerant charge and unit weight. 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 (32) for job configuration flexibility. The return air compartment can also contain an economizer (33). Two models exist, one for downflow applications, and one for horizontal applications. Each unit is pre-wired for the economizer to allow quick plug-in installation. The downflow economizer is also available as a factory-installed option. Polynomizer is also available as a factory-installed option.

economizer to allow quick plug-in installation. The downflow 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 out-door-air setpoint, a mix-air setpoint, and a CO² setpoint. Barometric relief is standard on all economizers. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plug-in assembly.

process quick and easy.



The Ruud roofcurb (34) is made for toolless assembly at the jobsite by inserting a pin into the hinged corners (35), which makes the assembly



SELECTION PROCEDURE EXAMPLE—RLKL-B SERIES



To select an RLKL-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: 240V-3 Phase-60 Hz Voltage-Total Cooling Capacity— 205,000 BTUH [60.0 kW] 155,000 BTUH [45.4 kW] Sensible Cooling Capacity-Heating Capacity-235,000 BTUH [68.8 kW] *Condenser Entering Air— 95°F [35.0°C] DB *Evaporator Mixed Air Entering-65°F [18.3°C] WB; 78°F [25.6°C] DB *Indoor Air Flow (vertical)— 7200 CFM [3398 L/s] *External Static Pressure-.70 in. WG [.17 kPa]

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 20 ton [70.3 kW] unit, enter cooling performance table at 95°F [35.0 °C] DB condenser inlet air. Interpolate between 63°F [17.2 °C] WB and 67°F [19.4 °C] WB to determine total and sensible capacity and power input for 65°F [18.3 °C] WB evaporator inlet air at 7825 CFM [3692 L/s] indoor air flow (table basis):

Total Cooling Capacity = 245,500 BTUH [71.88 kW] Sensible Cooling Capacity = 201,150 BTUH [58.90 kW] Power Input (Compressor and Cond. Fans) = 19,750 watts

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

201,150 + (1.10 x 7,200 x (1 - 0.11) x (78 - 80)) Sensible Cooling Capacity = 187,052 BTUH [54.77 kW]

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

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

Total Capacity = $245,500 \times 0.99 = 243,045$ BTUH [71.17 kW] Sensible Capacity = $187,052 \times 0.95 = 177,699$ BTUH [52.03 kW] Power Input = $19,750 \times 0.99 = 19,553$ Watts

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

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

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

RPM = 741 WATTS = 2,895

DRIVE = L (standard 5 H.P. motor)

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

2,895 x 3.412 = 9,878 BTUH [2.89 kW]

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

Net Total Capacity = 243,045-9,878 = 233,167 BTUH [68.27 kW] Net Sensible Capacity = 177,699 - 9,878 = 167,821 BTUH [49.14 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 19,553 (step 3) + 2,895 (step 4) = 22,448 Watts

EER = $\frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{233,167}{22,448} = 10.38$

8. SELECT UNIT HEATING CAPACITY.

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

Use 75 kW Heater Kit Heater Kit Model: RXJJ-CE75C

Heater Kit Capacity: 245,323 BTUH [71.8 kW]

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

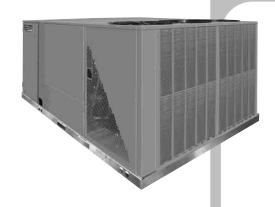
245,323 + 9,878 = 255,201 BTUH [74.7 kW]

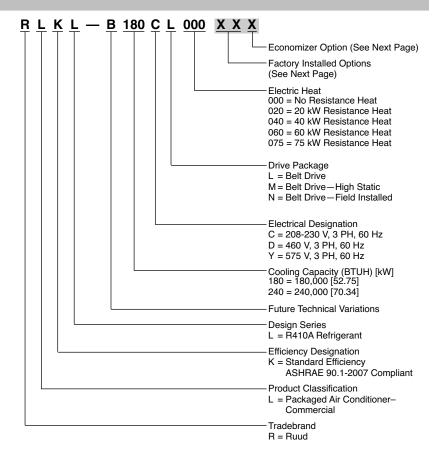
9. CHOOSE MODEL RLKL-B240CL075

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



MODEL IDENTIFICATION—RLKL-B SERIES







FACTORY INSTALLED OPTION CODES FOR RLKL-(15 & 20 TON) [52.8 & 70.3 kW] (B180 & B240)

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

Example: RLKL-B180CL000**XXX** (where **XX** is factory installed option)

Example: No Options

RLKL-B180CL000

Example: No Options with factory installed economizer

RLKL-B180CL000AAB

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

RLKL-B180CL000APA

Example: Options same as above with factory installed economizer

RLKL-B180CL000APB

ECONOMIZER SELECTION FOR RLKL- (B180 & B240)

Option Code	No Economizer	Single Enthalpy Economizer* With Barometric Relief	Single Enthalpy Economizer* With Barometric Relief and Smoke Detector
А	X		
В		Х	
С			Х

[&]quot;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.

^{*}Downflow economizer only.



NOM. SIZES 15 & 20 TONS [52.8 & 70.3]

AHRI Net Cooling Capacity Btu [kW] 170,000 [49.81] 170,000 [49.81] 170,000 [49.81] 170,000 [49.81] 182,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 125,400 [36.74] 14,600 [13.07] 41,600 [13.07] 41,600 [13.07] 41,600 [13.07] 41,000 [13.07] 41,000 [13.07] 41,000 [13.07] 41,000 [13.07] 41,000 [13.07] 41,00	el RLKL- Series	B180CL	B180CM	B180DL	B180DM
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Nominal CFM/AHRI Rated CFM [L/s]	oss Cooling Capacity Btu [kW]	174,000 [50.98]	174,000 [50.98]	174,000 [50.98]	174,000 [50.98]
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Outdoor Sound Rating (dB)* 91 91 91 Outdoor Coil—Fin Type Louvered Louvered Louvered Tube Type MicroChannel MicroChannel MicroChannel MicroChannel Depth In. [mm] 1 [25.4] 1 [25.5] 27.46 [2.55] 27.48 [2.55] 27.46 [2.55] 27.48 [2.55] 27.48 [2.55] 27.48 [2.55] 27.46 [2.55] 27.48 [2.55] 27.46 [2.55] 2	pressor				
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	e Area sq. ft. [sq. m]	27.46 [2.55]	27.46 [2.55]	27.46 [2.55]	27.46 [2.55]
Tube Type Rifled Rifled Rifled Rifled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 2 / 18 [7] Refrigerant Control Capillary Tubes Capillary Tubes Drain Connection No./Size in. [mm] 1/1 [25.4] 1/1 [25.4] Outdoor Fan—Type Propeller Propeller Propeller No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1	ws / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 2 / 18 [7] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 1	or Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 2 / 18 [7] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor RPM 1725 <t< td=""><td>ре Туре</td><td>Rifled</td><td>Rifled</td><td>Rifled</td><td>Rifled</td></t<>	ре Туре	Rifled	Rifled	Rifled	Rifled
Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 2 / 18 [7] 2 / 18 [7] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Mot. Used/Diameter in. [mm] 2/18x9 [457x229] EC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor Frame Size 56 184 56 </td <td>oe Size in. [mm]</td> <td>0.375 [9.5]</td> <td>0.375 [9.5]</td> <td>0.375 [9.5]</td> <td>0.375 [9.5]</td>	oe Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 No. Motors 1 1 1 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Furnished	e Area sq. ft. [sq. m]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 1 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Ye	ws / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Outdoor Fan—Type Propeller Propeller Propeller Propeller Propeller No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished	irigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Farme Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508]	in Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 No. Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508]	oor Fan—Type	Propeller	Propeller	Propeller	Propeller
CFM [L/s] 10000 [4719] 3 at 1/2 HP 4 Disposition 6 Centrifugal FC Centrifugal	. Used/Diameter in. [mm]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]
No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)	ve Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508]	VI [L/s]	10000 [4719]	10000 [4719]	10000 [4719]	10000 [4719]
Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)	. Motors/HP	3 at 1/2 HP			
No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8) Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	tor RPM	1075	1075	1075	1075
Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8) Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	or Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Motors 1 1 1 Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8) Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Motor HP 3 5 3 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8) Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	ve Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor RPM Motor Frame Size 1725 1725 1725 Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	. Motors	1	1	1	1
Motor Frame Size 56 184 56 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	tor HP	3	5	3	5
Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	tor RPM	1725	1725	1725	1725
Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51	tor Frame Size	56	184	56	184
(NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [r—Туре	Disposable	Disposable	Disposable	Disposable
Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	nished	Yes	Yes	Yes	Yes
Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374]	D.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
	gerant Charge Oz. [g]		115/119 [3260/3374]		115/119 [3260/3374]
Weights	hts	·			
Net Weight lbs. [kg] 1667 [756] 1696 [769] 1667 [756]		1667 [756]	1696 [769]	1667 [756]	1696 [769]
Ship Weight lbs. [kg] 1794 [814] 1823 [827] 1794 [814]					1823 [827]

See Page 15 for Notes.



NOM. SIZES 15 & 20 TONS [52.8 & 70.3]

AHRI Net Cooling Capacity Btu [kW] 170,000 [49.81] 170,000 [49.81] 240,000 [70.32] Net Sensible Capacity Btu [kW] 125,400 [36.74] 125,400 [36.74] 175,000 [51.27] Net Latent Capacity Btu [kW] 144,600 [13.07] 44,600 [33.07] 65,000 [19.04] IEER8 11.1 11.1 10.5 Net System Power [kW] 15.45 15.45 22.88 Compressor No.7/ype 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB) ⁴ 91 91 91 Outdoor Coli—Fin Type Louvered Louvered Louvered MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Row FPI [FPcm] 1 /23 [9] 1 /23 [9] 1 /23 [9] Indoor Call—Fin Type Louvered Ruffled Riffled	B240CM	B240CL	B180YM	B180YL	Model RLKL- Series
EER/SEER2 11/NA 11/NA 11/NA 10.5/NA Nominal CHW/AHRI Rated CFM [L/s] 6000/5500 [2831/2595] 6000/5500 [2831/2595] 8000/7825 [3773/3693 AHRI Net Cooling Capacity Btu [kW] 170,000 [49.81] 170,000 [49.81] 240,000 [70.32] Net Sensible Capacity Btu [kW] 125,400 [36.74] 125,400 [36.74] 175,000 [51.27] Net System Power [kW] 15.45 15.45 22.88 Compressor 15.45 15.45 22.88 Compressor Very Pe 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB)* 91 91 91 91 Outdoor Sound Rating (dB)* 91 92 92 92 92 92 92	CONTINUED				Cooling Performance ¹
Nominal CFM/AHRI Rated CFM [L/s] 6000/5500 [2831/2595] 6000/5500 [2831/2595] 8000/7825 [3775/3698] AHRI Net Cooling Capacity Btu [kW] 170,000 [49.81] 170,000 [49.81] 175,000 [51.27] Net Sensible Capacity Btu [kW] 125,400 [36.74] 125,400 [36.74] 175,000 [51.27] Net Latent Capacity Btu [kW] 44,600 [13.07] 44,600 [13.07] 65,000 [19.04] Net System Power [kW] 15.45 15.45 22.88 Compressor Very College 2/8croll 2/8croll 2/8croll 2/8croll 2/8croll 2/8croll 0 91 92 91 92 92	250,000 [73.25]	250,000 [73.25]	174,000 [50.98]	174,000 [50.98]	Gross Cooling Capacity Btu [kW]
AHRI Net Cooling Capacity Btu [kW] 170,000 [49.81] 170,000 [49.81] 240,000 [70.32] Net Sensible Capacity Btu [kW] 125,400 [36.74] 125,400 [36.74] 175,000 [51.27] Net Latent Capacity Btu [kW] 44,600 [13.07] 44,600 [13.07] 65,000 [19.04] IEERA 11.1 11.1 10.5 Net System Power [kW] 15.45 15.45 22.88 Compressor No.7type 2/Scroll 2/Scroll 2/Scroll No.7type 2/Scroll 91 91 91 Outdoor Sound Rating (dB)* 91 91 91 91 Outdoor Coil—Fin Type Louvered Louvered Louvered MicroChannel Depth In. [mm] 1 [25.4]<	10.5/NA	10.5/NA	11/NA	11/NA	EER/SEER2
Net Sensible Capacity Btu [kW] 125,400 [36.74] 125,400 [36.74] 175,000 [51.27] Net Latent Capacity Btu [kW] 44,600 [13.07] 44,600 [13.07] 65,000 [19.04] IEERA3 11.1 11.1 11.1 10.5 Net System Power [kW] 15.45 15.45 22.88 Compressor No.Type 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB)* 91 91 91 Outdoor Coil—Fin Type Louvered Louvered Louvered MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Acac Area sq. ft. [sq. mm] 2 7.46 [2.55] 27.46 [2.55] 50.88 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Riffed Riffed Riffed Riffed Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] 6.67 [2.48] 2.667 [2.48] 2.667 [2.48] 2.667 [2.48] 2.667 [2.48] 2.667 [2.48] <td>8693] 8000/7825 [3775/3693]</td> <td>8000/7825 [3775/3693]</td> <td>6000/5500 [2831/2595]</td> <td>6000/5500 [2831/2595]</td> <td>Nominal CFM/AHRI Rated CFM [L/s]</td>	8693] 8000/7825 [3775/3693]	8000/7825 [3775/3693]	6000/5500 [2831/2595]	6000/5500 [2831/2595]	Nominal CFM/AHRI Rated CFM [L/s]
Net Latent Capacity Btu [kW] 44,600 [13.07] 44,600 [13.07] 65,000 [19.04] IEERB 11.1 11.1 10.5 Not Type 15.45 15.45 22.88 Compressor Valor [Micro Channel Coll—Fin Type] 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB)⁴ 91 91 91 91 91 Outdoor Coll—Fin Type Micro Channel	240,000 [70.32]	240,000 [70.32]	170,000 [49.81]	170,000 [49.81]	AHRI Net Cooling Capacity Btu [kW]
IEER3 11.1 11.1 10.5 Net System Power [kW] 15.45 15.45 15.45 Compressor Tomation 2/Scroll 2/Scroll 2/Scroll No./Type 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB) ⁴ 91 91 91 Outdoor Coil—Fin Type Louvered Louvered MicroChannel MicroCha	7] 175,000 [51.27]	175,000 [51.27]	125,400 [36.74]	125,400 [36.74]	Net Sensible Capacity Btu [kW]
Net System Power [kW] 15.45 15.45 22.88 Compressor Volution 2/Scroll 91 92 91 92 91 92 91 92 93 93 93 93 93 93 93 93 93 93 93 93	[65,000 [19.04]	65,000 [19.04]	44,600 [13.07]	44,600 [13.07]	Net Latent Capacity Btu [kW]
Compressor No./Type 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB)* 91 91 91 Outdoor Coil—Fin Type Louvered Louvered Louvered Tube Type MicroChannel MicroChannel MicroChannel MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Face Area sq. ft. [sq. m] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Rifled Rifled Rifled Tube Type Rifled Rifled Rifled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes Draid Type/No. Speeds Direct/1 Direct/1	10.5	10.5	11.1	11.1	IEER3
No./Type 2/Scroll 2/Scroll 2/Scroll 2/Scroll Outdoor Sound Rating (dB)* 91 91 91 Outdoor Coil—Fin Type Louvered Louvered Louvered Tube Type MicroChannel MicroChannel MicroChannel MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Rifled Rifled Rifled Tube Type Propeller Rifled Rifled <td>22.88</td> <td>22.88</td> <td>15.45</td> <td>15.45</td> <td>Net System Power [kW]</td>	22.88	22.88	15.45	15.45	Net System Power [kW]
Outdoor Sound Rating (dB) ⁴ 91 91 91 Outdoor Coil—Fin Type Louvered Louvered Louvered Tube Type MicroChannel MicroChannel MicroChannel MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Rifled Rifled Rifled Tube Type Rifled Rifled Rifled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.					Compressor
Outdoor Coil—Fin Type Louvered MicroChannel Louvered MicroChannel Louvered MicroChannel Tube Type MicroChannel MicroChannel MicroChannel MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Rifled Rifled Rifled Tube Type Rifled Rifled Rifled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Retrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes Drain Connection No./Size in. [mm] 1 / 1 [25.4] 1 / 1 [25.4] 1 / 1 [25.4] Outdoor Fan—Type Propeller Propeller Propeller Propeller N	2/Scroll	2/Scroll	2/Scroll	2/Scroll	No./Type
Tube Type MicroChannel MicroChannel MicroChannel MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indor 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] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2.7 l8 [7] 2 / 18 [7] 3 / 13 [5] Fefrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 Direct/1 Direct/1	91	91	91	91	Outdoor Sound Rating (dB) ⁴
MicroChannel Depth In. [mm] 1 [25.4] 1 [25.4] 1 [25.4] Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Riffled Riffled Riffled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes Drain Connection Not/Size in. [mm] 11 [25.4]	Louvered	Louvered	Louvered	Louvered	Outdoor Coil—Fin Type
Face Area sq. ft. [sq. m] 27.46 [2.55] 27.46 [2.55] 50.8 [4.72] Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Riffled Riffled Riffled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes Drain Connection No./Size in. [mm] 1 / 1 [25.4] 1 / 1 [25.4] 1 / 1 [25.4] Outdoor Fan—Type Propeller Propeller Propeller Propeller No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 Direct/1 For Centrifugal FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] <t< td=""><td>MicroChannel</td><td>MicroChannel</td><td>MicroChannel</td><td>MicroChannel</td><td>Tube Type</td></t<>	MicroChannel	MicroChannel	MicroChannel	MicroChannel	Tube Type
Rows / FPI [FPcm] 1 / 23 [9] 1 / 23 [9] 1 / 23 [9] Indoor Coil—Fin Type Louvered Louvered Louvered Tube Type Rifled Rifled Rifled Tube Type Rifled Rifled Rifled Tube Type Rifled Rifled Rifled Tube Type 20.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes Drain Connection No./Size in. [mm] 1 / 1 [25.4] 1 / 1 [25.4] 1 / 1 [25.4] Outdoor Fan—Type Propeller Propeller Propeller Propeller No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x22	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]	MicroChannel Depth In. [mm]
Indoor Coil—Fin Type Louvered Louvered Louvered Louvered Rifled Rifled <td>50.8 [4.72]</td> <td>50.8 [4.72]</td> <td>27.46 [2.55]</td> <td>27.46 [2.55]</td> <td>Face Area sq. ft. [sq. m]</td>	50.8 [4.72]	50.8 [4.72]	27.46 [2.55]	27.46 [2.55]	Face Area sq. ft. [sq. m]
Tube Type Rifled Rifled Rifled Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/S] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable Belt/Variable	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	Rows / FPI [FPcm]
Tube Size in. [mm] 0.375 [9.5] 0.375 [9.5] 0.375 [9.5] Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM—Type FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor Fam—Type 3 5 5 <td>Louvered</td> <td>Louvered</td> <td>Louvered</td> <td>Louvered</td> <td>Indoor Coil—Fin Type</td>	Louvered	Louvered	Louvered	Louvered	Indoor Coil—Fin Type
Face Area sq. ft. [sq. m] 26.67 [2.48] 26.67 [2.48] 26.67 [2.48] Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 5 Motor Fan—Type D	Rifled	Rifled	Rifled	Rifled	Tube Type
Rows / FPI [FPcm] 2 / 18 [7] 2 / 18 [7] 3 / 13 [5] Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	Tube Size in. [mm]
Refrigerant Control Capillary Tubes Capillary Tubes Capillary Tubes 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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	Face Area sq. ft. [sq. m]
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] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Farme Size 56 184 184 Filter—Type Disposable Disposable Disposable	3 / 13 [5]	3 / 13 [5]	2 / 18 [7]	2 / 18 [7]	Rows / FPI [FPcm]
Outdoor Fan—Type Propeller Propeller Propeller No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Fame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes	Refrigerant Control
No. Used/Diameter in. [mm] 3/24 [609.6] 3/24 [609.6] 3/24 [609.6] Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 No. Motor HP 3 5 5 Motor FRPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508]<	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	Drain Connection No./Size in. [mm]
Drive Type/No. Speeds Direct/1 Direct/1 Direct/1 CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 No. Motor HP 3 5 5 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	Propeller	Propeller	Propeller	Propeller	Outdoor Fan—Type
CFM [L/s] 10000 [4719] 10000 [4719] 10000 [4719] No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 No. Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]	No. Used/Diameter in. [mm]
No. Motors/HP 3 at 1/2 HP 3 at 1/2 HP 3 at 1/2 HP Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	Direct/1	Direct/1	Direct/1	Direct/1	Drive Type/No. Speeds
Motor RPM 1075 1075 1075 Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	10000 [4719]	10000 [4719]	10000 [4719]	10000 [4719]	CFM [L/s]
Indoor Fan—Type FC Centrifugal FC Centrifugal FC Centrifugal No. Used/Diameter in. [mm] 2/18x9 [457x229] 2/18x9 [457x229] 2/18x9 [457x229] Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508]	3 at 1/2 HP	3 at 1/2 HP	3 at 1/2 HP	3 at 1/2 HP	No. Motors/HP
No. Used/Diameter in. [mm] 2/18x9 [457x229] Belt/Variable Belt/Variable </td <td>1075</td> <td>1075</td> <td>1075</td> <td>1075</td> <td>Motor RPM</td>	1075	1075	1075	1075	Motor RPM
Drive Type/No. Speeds Belt/Variable Belt/Variable Belt/Variable No. Motors 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	Indoor Fan—Type
No. Motors 1 1 1 Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	9] 2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	No. Used/Diameter in. [mm]
Motor HP 3 5 5 Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable	Drive Type/No. Speeds
Motor RPM 1725 1725 1725 Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	1	1	1	1	No. Motors
Motor Frame Size 56 184 184 Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	7 1/2	5	5	3	Motor HP
Filter—Type Disposable Disposable Disposable Furnished Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] (8)2x25x20 [51x635x508] Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	1725	1725	1725	1725	Motor RPM
Furnished Yes Yes Yes Yes (NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20	213	184	184	56	Motor Frame Size
(NO.) Size Recommended in. [mm x mm x mm] (8)2x25x20 [51x635x508] (8)2x25x20 [Disposable	Disposable	Disposable	Disposable	Filter—Type
Refrigerant Charge Oz. [g] 115/119 [3260/3374] 115/119 [3260/3374] 200/219 [5670/6209]	Yes	Yes	Yes	Yes	Furnished
	ix508] (8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(NO.) Size Recommended in. [mm x mm x mm]
Weights	200/219 [5670/6209]	200/219 [5670/6209]	115/119 [3260/3374]	115/119 [3260/3374]	Refrigerant Charge Oz. [g]
					Weights
Net Weight lbs. [kg] 1667 [756] 1696 [769] 1883 [854]	1921 [871]	1883 [854]	1696 [769]	1667 [756]	Net Weight lbs. [kg]
Ship Weight lbs. [kg] 1794 [814] 1823 [827] 2009 [911]	2047 [929]		1823 [827]	1794 [814]	

See Page 15 for Notes.



NOM. SIZES 15 & 20 TONS [52.8 & 70.3]

Model RLKL- Series	B240CN	B240DL	B240DM	B240DN
Cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	250,000 [73.25]	250,000 [73.25]	250,000 [73.25]	250,000 [73.25]
EER/SEER ²	10.5/NA	10.5/NA	10.5/NA	10.5/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7825 [3775/3693]	8000/7825 [3775/3693]	8000/7825 [3775/3693]	8000/7825 [3775/3693]
AHRI Net Cooling Capacity Btu [kW]	240,000 [70.32]	240,000 [70.32]	240,000 [70.32]	240,000 [70.32]
Net Sensible Capacity Btu [kW]	175,000 [51.27]	175,000 [51.27]	175,000 [51.27]	175,000 [51.27]
Net Latent Capacity Btu [kW]	65,000 [19.04]	65,000 [19.04]	65,000 [19.04]	65,000 [19.04]
IEER3	10.5	10.5	10.5	10.5
Net System Power [kW]	22.88	22.88	22.88	22.88
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB) ⁴	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth In. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
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]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
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]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	10000 [4719]	10000 [4719]	10000 [4719]	10000 [4719]
No. Motors/HP	3 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	7 1/2	5	7 1/2	7 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	213	184	184	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	200/219 [5670/6209]	200/219 [5670/6209]	200/219 [5670/6209]	200/219 [5670/6209]
Weights				
Net Weight lbs. [kg]	1919 [870]	1883 [854]	1921 [871]	1919 [870]
Ship Weight lbs. [kg]	2046 [928]	2009 [911]	2047 [929]	2046 [928]
Soo Page 15 for Notes				

See Page 15 for Notes.



NOM. SIZES 15 & 20 TONS [52.8 & 70.3]

Model RLKL- Series	B240YL	B240YM	B240YN
Cooling Performance ¹			
Gross Cooling Capacity Btu [kW]	250,000 [73.25]	250,000 [73.25]	250,000 [73.25]
EER/SEER ²	10.5/NA	10.5/NA	10.5/NA
Nominal CFM/AHRI Rated CFM [L/s]	8000/7825 [3775/3693]	8000/7825 [3775/3693]	8000/7825 [3775/3693]
AHRI Net Cooling Capacity Btu [kW]	240,000 [70.32]	240,000 [70.32]	240,000 [70.32]
Net Sensible Capacity Btu [kW]	175,000 [51.27]	175,000 [51.27]	175,000 [51.27]
Net Latent Capacity Btu [kW]	65,000 [19.04]	65,000 [19.04]	65,000 [19.04]
IEER3	10.5	10.5	10.5
Net System Power [kW]	22.88	22.88	22.88
Compressor			
No./Type	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB) ⁴	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth In. [mm]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	50.8 [4.72]	50.8 [4.72]	50.8 [4.72]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
ndoor 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]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes
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]	3/24 [609.6]	3/24 [609.6]	3/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	10000 [4719]	10000 [4719]	10000 [4719]
No. Motors/HP	3 at 1/2 HP	3 at 1/2 HP	3 at 1/2 HP
Motor RPM	1075	1075	1075
ndoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457x229]	2/18x9 [457x229]	2/18x9 [457x229]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1
Motor HP	5	7 1/2	7 1/2
Motor RPM	1725	1725	1725
Motor Frame Size	184	213	213
ilter—Type	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]	(8)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	200/219 [5670/6209]	200/219 [5670/6209]	200/219 [5670/6209]
Weights Net Weight lbs. [kg]	1883 [854]	1921 [871]	1919 [870]

See Page 15 for Notes.



NOTES:

- 1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
- 2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- 3. IEER is rated in accordance with AHRI Standard 340/360.
- 4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

SYSTEMS PERFORMANCE—RLKL-B SERIES



GROSS SYSTEMS PERFORMANCE DATA—B180

				EN	ITERING INDOC	R AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	7200 [3398]	5500 [2596]	4800 [2265]	7200 [3398]	5500 [2596]	4800 [2265]	7200 [3398]	5500 [2596]	4800 [2265]
		DR ①	0.05	0.11	0.14	0.05	0.11	0.14	0.05	0.11	0.14
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	205.0 [60.1] 133.0 [39.0] 12.1	194.1 [56.9] 105.3 [30.9] 11.8	189.6 [55.6] 94.8 [27.8] 11.7	196.7 [57.6] 161.3 [47.3] 12.0	186.3 [54.6] 130.6 [38.3] 11.6	182.0 [53.3] 118.8 [34.8] 11.5	190.1 [55.7] 184.2 [54.0] 11.8	180.0 [52.8] 150.9 [44.2] 11.5	175.8 [51.5] 138.0 [40.5] 11.3
0 U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	202.7 [59.4] 133.8 [39.2] 12.7	191.9 [56.2] 106.1 [31.1] 12.4	187.4 [54.9] 95.6 [28.0] 12.2	194.4 [57.0] 162.1 [47.5] 12.5	184.1 [54.0] 131.4 [38.5] 12.2	179.8 [52.7] 119.6 [35.1] 12.1	187.7 [55.0] 184.9 [54.2] 12.4	177.7 [52.1] 151.6 [44.4] 12.0	173.6 [50.9] 138.7 [40.7] 11.9
D 0 0 R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	199.8 [58.6] 133.8 [39.2] 13.4	189.1 [55.4] 106.2 [31.1] 13.0	184.8 [54.2] 95.8 [28.1] 12.9	191.5 [56.1] 162.1 [47.5] 13.2	181.3 [53.1] 131.5 [38.5] 12.8	177.1 [51.9] 119.7 [35.1] 12.7	184.8 [54.2] 184.8 [54.2] 13.0	175.0 [51.3] 151.8 [44.5] 12.7	171.0 [50.1] 139.0 [40.7] 12.5
D R Y B	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	196.3 [57.5] 132.8 [38.9] 14.0	185.9 [54.5] 105.7 [31.0] 13.7	181.6 [53.2] 95.4 [28.0] 13.5	188.1 [55.1] 161.3 [47.3] 13.9	178.1 [52.2] 131.0 [38.4] 13.5	174.0 [51.0] 119.4 [35.0] 13.3	181.4 [53.2] 181.4 [53.2] 13.7	171.8 [50.3] 151.3 [44.4] 13.3	167.8 [49.2] 138.6 [40.6] 13.2
U L B T E	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	192.3 [56.4] 131.1 [38.4] 14.8	182.1 [53.4] 104.4 [30.6] 14.4	177.9 [52.1] 94.2 [27.6] 14.2	184.1 [54.0] 159.6 [46.8] 14.6	174.3 [51.1] 129.7 [38.0] 14.2	170.3 [49.9] 118.2 [34.7] 14.0	177.4 [52.0] 177.4 [52.0] 14.4	168.0 [49.2] 150.0 [44.0] 14.0	164.1 [48.1] 137.4 [40.3] 13.9
M P E R	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	187.8 [55.0] 128.6 [37.7] 15.5	177.8 [52.1] 102.4 [30.0] 15.1	173.7 [50.9] 92.5 [27.1] 14.9	179.6 [52.6] 157.2 [46.1] 15.3	170.0 [49.8] 127.8 [37.5] 14.9	166.1 [48.7] 116.5 [34.2] 14.8	172.9 [50.7] 172.9 [50.7] 15.2	163.7 [48.0] 148.1 [43.4] 14.8	159.9 [46.9] 135.7 [39.8] 14.6
A T U R	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	182.7 [53.5] 125.3 [36.7] 16.3	173.0 [50.7] 99.8 [29.3] 15.9	169.0 [49.5] 90.1 [26.4] 15.7	174.5 [51.1] 153.9 [45.1] 16.1	165.2 [48.4] 125.2 [36.7] 15.7	161.4 [47.3] 114.2 [33.5] 15.5	167.8 [49.2] 167.8 [49.2] 16.0	158.9 [46.6] 145.5 [42.7] 15.5	155.2 [45.5] 133.4 [39.1] 15.4
°F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	177.1 [51.9] 121.3 [35.6] 17.1	167.7 [49.1] 96.6 [28.3] 16.7	163.8 [48.0] 87.2 [25.6] 16.5	168.8 [49.5] 149.7 [43.9] 17.0	159.8 [46.8] 121.8 [35.7] 16.5	156.1 [45.7] 111.1 [32.6] 16.3	162.2 [47.5] 162.2 [47.5] 16.8	153.5 [45.0] 142.1 [41.7] 16.4	150.0 [44.0] 130.4 [38.2] 16.2
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	170.9 [50.1] 116.3 [34.1] 18.0	161.8 [47.4] 92.5 [27.1] 17.5	158.1 [46.3] 83.5 [24.5] 17.4	162.6 [47.7] 144.6 [42.4] 17.9	154.0 [45.1] 117.8 [34.5] 17.4	150.4 [44.1] 107.4 [31.5] 17.2	156.0 [45.7] 156.0 [45.7] 17.7	147.7 [43.3] 138.1 [40.5] 17.2	144.3 [42.3] 126.7 [37.1] 17.0

GROSS SYSTEMS PERFORMANCE DATA—B240

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE ①)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	9600 [4531]	7825 [3693]	6400 [3020]	9600 [4531]	7825 [3693]	6400 [3020]	9600 [4531]	7825 [3693]	6400 [3020]
		DR ①	0.06	0.11	0.15	0.06	0.11	0.15	0.06	0.11	0.15
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	295.2 [86.5] 188.5 [55.3] 17.0	283.5 [83.1] 158.8 [46.5] 16.6	274.1 [80.3] 136.7 [40.1] 16.4	281.3 [82.4] 226.4 [66.4] 16.7	270.2 [79.2] 193.6 [56.7] 16.4	261.3 [76.6] 169.0 [49.5] 16.1	271.4 [79.5] 261.1 [76.5] 16.4	260.6 [76.4] 225.3 [66.0] 16.1	252.0 [73.9] 198.3 [58.1] 15.8
0 U T	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	291.1 [85.3] 186.7 [54.7] 17.8	279.6 [81.9] 157.3 [46.1] 17.4	270.4 [79.2] 135.5 [39.7] 17.2	277.3 [81.3] 224.6 [65.8] 17.5	266.3 [78.0] 192.1 [56.3] 17.2	257.5 [75.5] 167.7 [49.2] 16.9	267.3 [78.3] 259.2 [76.0] 17.2	256.7 [75.2] 223.8 [65.6] 16.9	248.2 [72.7] 197.0 [57.7] 16.6
D 0 0 R	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	286.3 [83.9] 184.3 [54.0] 18.7	275.0 [80.6] 155.4 [45.6] 18.3	265.9 [77.9] 133.9 [39.3] 18.0	272.5 [79.9] 222.3 [65.2] 18.4	261.7 [76.7] 190.2 [55.8] 18.0	253.0 [74.1] 166.1 [48.7] 17.7	262.5 [76.9] 256.9 [75.3] 18.1	252.1 [73.9] 221.9 [65.0] 17.7	243.7 [71.4] 195.4 [57.3] 17.4
D R Y B	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	280.8 [82.3] 181.7 [53.3] 19.6	269.6 [79.0] 153.1 [44.9] 19.2	260.7 [76.4] 131.9 [38.7] 18.9	266.9 [78.2] 219.5 [64.3] 19.3	256.3 [75.1] 187.9 [55.1] 18.9	247.8 [72.6] 164.2 [48.1] 18.6	256.9 [75.3] 254.1 [74.5] 19.0	246.7 [72.3] 219.6 [64.4] 18.6	238.6 [69.9] 193.5 [56.7] 18.3
U L B T E	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	274.4 [80.4] 178.4 [52.3] 20.6	263.6 [77.3] 150.5 [44.1] 20.2	254.9 [74.7] 129.7 [38.0] 19.8	260.6 [76.4] 216.3 [63.4] 20.3	250.3 [73.4] 185.3 [54.3] 19.9	242.0 [70.9] 162.0 [47.5] 19.6	250.6 [73.4] 250.6 [73.5] 20.0	240.7 [70.5] 217.0 [63.6] 19.6	232.7 [68.2] 191.2 [56.0] 19.3
M P E R	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	267.4 [78.4] 174.7 [51.2] 21.6	256.8 [75.3] 147.4 [43.2] 21.2	248.3 [72.8] 127.1 [37.3] 20.8	253.5 [74.3] 212.5 [62.3] 21.3	243.5 [71.4] 182.2 [53.4] 20.9	235.4 [69.0] 159.3 [46.7] 20.5	243.5 [71.4] 243.5 [71.4] 21.0	233.9 [68.5] 214.0 [62.7] 20.6	226.1 [66.3] 188.7 [55.3] 20.3
A T U R	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	259.6 [76.1] 170.6 [50.0] 22.7	249.3 [73.1] 144.0 [42.2] 22.2	241.0 [70.6] 124.2 [36.4] 21.9	245.7 [72.0] 208.5 [61.1] 22.4	236.0 [69.2] 178.8 [52.4] 21.9	228.2 [66.9] 156.5 [45.9] 21.6	235.7 [69.1] 235.7 [69.1] 22.1	226.4 [66.4] 210.5 [61.7] 21.7	218.9 [64.2] 185.7 [54.4] 21.3
E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	251.0 [73.6] 166.1 [48.7] 23.8	241.1 [70.7] 140.3 [41.1] 23.3	233.1 [68.3] 121.1 [35.5] 22.9	237.1 [69.5] 203.9 [59.8] 23.5	227.7 [66.7] 175.0 [51.3] 23.0	220.2 [64.5] 153.3 [44.9] 22.7	227.1 [66.6] 227.1 [66.6] 23.2	218.1 [63.9] 206.7 [60.6] 22.8	210.9 [61.8] 182.5 [53.5] 22.4
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	241.7 [70.8] 161.0 [47.2] 25.0	232.1 [68.0] 136.0 [39.9] 24.5	224.4 [65.8] 117.4 [34.4] 24.1	227.8 [66.8] 198.8 [58.3] 24.7	218.8 [64.1] 170.8 [50.1] 24.2	211.5 [62.0] 149.6 [43.9] 23.8	217.8 [63.8] 217.8 [63.8] 24.4	209.2 [61.3] 202.5 [59.4] 23.9	202.3 [59.3] 179.0 [52.5] 23.5

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 $80^{\circ}F$ [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].



AIRFLOW PERFORMANCE—15 TON [52.8 kW]—SIDEFLOW

	2		1			18	3	١	ļ	1	١	إ																								l	l	Γ
	<u>8</u>	del KL	MOGEI KLKL-B18U VOITAGE 208/23U, 46U, 5/5 — 3 Phase 60 Hz	2	OITag	e 208,	, Z3U,	40N, :	ر ا	- 3 Pn	ase or	ZH N																										
Alf															Exte	External Static Pressure—Inches of Water [kPa]	tatic	Press	ure—	Inche	s of W	ater [kPa]															
CEM II CO.1 [.02] 0.2 [.05] 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15] 0.7	0.1[.	02] [J. 2 [.0!	5] 0.3	3 [.07]	1 0.4	[10]	0.5	[.12]	9.0	[15]	0.7	[11]	0.8	.20]	0.8 [.20] 0.9 [.22]		1.0 [.25]		1.1 [.27]	27]	.2[.3	1.2 [.30] 1.3 [.32]	.3[.3		1.4 [.35]	-	1.5 [.37]		1.6 [.40]	-	7 [42	1.	1.7 [.42] 1.8 [.45] 1.9 [.47] 2.0 [.50]	1.9	[.47]	2.0[20]
[c/3] III [c/3]	RPM	N	RPM W RPM W RPM W RPM W RPM W RPM W RPM	V RPI	> 	RPI	8	RPI	×	RPIN	>	RPM	8	RPM	≥	RPM	W	RPM W	×	3PM	RPM W RPM W	ΡM	W	RPM W		RPM W		RPM W		RPM W		RPM W		RPM W	RPM	>	RPM	>
4800 [2265]] —	_					_	-	_	289	1395	613	1488	989	1584	629	1681	. 189	1.841	703 1	1883 7	725 1	1987 7	746 20	2093 7	766 22	2202 787	37 2313	13 806)6 2426	26 826	6 2541	41 845	5 2658	8 863	2778	881	2900
5000 [2359]	1	1	1		1	1	1	574		1376 598	1469	621	1565	644	1663	1 299	1763	. 689	1866	710 1	1971 7	732 2	2078 7	752 21	2187 7	773 22	2299 793	33 2412	12 812	12 2528	28 831	1 2647	47 850	0 2767	898 2	2890	988	3014
5200 [2454]] —	1			-	-	1	583	1452	209	1549	930	1647	652	1748	675	1852	969	1957	718 2	2065 7	739 2	2175 7	759 22	2287 7	779 24	2401 799	99 2518	18 818	18 2637	37 837	7 2758	28 856	6 2881	1 874	3007	891	3134
5400 [2548]		1	 -		1	 	I	265		1534 615	1634	638	1735	199	1839	683	1945	704	2054	725 2	2164 7	746 2	2277 7	766 23	2392 7	786 25	2509 806	J6 2629	29 825	25 2751	51 843	3 2875	75 862	2 3001	1 879	3129	268	3260
5600 [2643]		1			1	. 578		5 601	1522 601 1622 624	624	1724	647	1829	699	1936	691	2045	712	2156	733 2	2270 7	753 23	2385 7	773 25	2503 7	793 26	2623 812	12 2746	46 831	31 2870	70 849	9 2997	298 26	7 3126	9885	3258	305	3391
5800 [2737]] —	-				- 587		9 610	1612 610 1715 633	633	1821	655	1928	229	2038	669	2150	720	. 5264	741 2	2380 7	761 2	2499 7	781 26	2620 8	800 27	2743 819	19 2868	837	37 2996	96 856	6 3126	26 873	3 3258	8 891	3392	206	3528
6000 [2831]]	Ī	 -	- 573	3 1605	2 297	7 1709	9 620	1709 620 1815 642	642	1923	664	2033	686	2146	707	2261	728	. 328	748 2	2497	768 2	2618 7	788 27	2742 8	807 28	2868 826	26 2996	96 844	14 3127	27 862	3260	879	9 3394	4 896	3532	913	3671
6200 [2926]	_	Ī	1	— 583	583 1704	909 4	181	1 629	1811 629 1919 651	651	2030	673	2144	695	2259	715	2377	736	2497	756 2	2619 7	776 2	2744 7	795 28	2870 8	814 29	2999 832	32 3130	30 851	51 3264	64 868	3399	99 885	5 3537	7 902	3677	918	3819
6400 [3020]] —	-	570 1701 593 1809 616 1918 639 2030 661	01 593	3 180	9 616	1918	3 639	2030	199 (2144	685	2260	703	2378	724	2499	744	. 2622	764 2	2747	784 2	2874 8	803 30	3004 8	821 31	3136 839	39 3270	70 857	3406	90 875	5 3544	44 892	2 3685	2 908	3828	924	3973
6600 [3114]]	-	580 18	1809 603 1919 626 2031 648 2146 670	3 191	9 626	3 203	1 648	2146	9 670	2263	691	2382	712	2503	732 2	2627	753	2753	772 2	2881 7	791 3	3011 8	810 31	3143 8	829 32	3278 846	16 3415	15 864	3554	54 881	3695	95 898	8 3839	9 914	3985	930	4133
6800 [3209]			591 1922 614 2035 636 2150 658 2268 679	22 614	1 203	5 636	3 2150	0 658	2268	629		2388 700	2510	721	2634	741	2760	761	. 5888	780 3	3020 7	799 3	3153 8	818 32	3288 8	836 34	3426 854	54 3566	66 871	71 3708	888 80	3852	52 904	4 3999	9 920	4147	Ι	1
7000 [3303] 578 1927 601 2041 624 2157 646 2275 667 2395 689	1 228	1927 (301 20	41 624	1 215	7 646	3 2275	2 99	2395	689	2518	2518 709	2643	730	2770	750	2899	692	3031	788 3	3165	807 33	3301 8	825 3	3439 8	843 35	3579 861	31 3722	22 878	2986 82	67 894	4014	14 911	1 4164	4 926	4315	I	1
7200 [3398] 589 [2049] 612 [2165] 634 [2284] 656 [2405] 677 [2528] 698 [2654] 719	1 589	2049 (312 21	65 634	1 228	4 656	3 240	5 677	2528	8698	2654	719	2782	739	2912	759	3044	8//	3178	797 3	3315	815 3,	3454 8	833 3	3595 8	851 37	3739 868	38 3884	84 885	35 4032	32 901	11 4182	82 917	7 4335	1	I	ı	1
NOTE: L-Drive left of bold line, M-Drive right of bold line.	ive left	of bold	line, M	-Drive r	ight of	f bold i	line.																															

				9	775
				9	808
	28.5]	5H	26	4	840
M	5.0 [3728.5]	BK105H	1VP-56	3	873
				7	806
				1	672
				9	2/5
				2	909
	237.1]	BK105H	IVL-44	4	640
	3.0 [2237.1]	BK1	1VI	8	699
				7	701
				-	733
Drive Package	Motor H.P. [W]	Blower Sheave	Motor Sheave	Turns Open	RPM

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

Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure.
 Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

COMPONENT AIR RESISTANCE—15 TON [52.8 kW]

	4800	2000	5200	2400	2600	2800	0009	6200	6400	0099	0089	2000	7200
CFM	[2265]	[2359]	[2454]	[2548]	[2643]	[2737]	[2831]	[5926]	[3020]	[3114]	[3209]	[3303]	[3398]
[۲/۶]					Res	Resistance — I	- Inches o	Inches of Water [kPa]	Pa]				
Wet Ceil	0.03	0.04	0.05	90.0	90.0	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13
מאפו כחוו	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.02]	[0.02]	[0.02]	[0.02]	[0.02]	[0.03]	[0.03]	[0.03]
	0.05	0.05	0.05	0.05	0.05	0.05	0.05	90.0	90.0	90.0	0.07	0.08	0.08
DOWILLION	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.02]	[0.02]	[0.02]
Downflow Economizer	0.09	0.10	0.10	0.11	0.12	0.13	0.13	0.14	0.15	0.16	0.16	0.17	0.18
R.A. Damper Open	[0.02]	[0.02]	[0.02]	[0.03]	[0.03]	[0.03]	[0.03]	[0.03]	[0.04]	[0.04]	[0.04]	[0.04]	[0.04]
Horizontal Economizer	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	90.0	90.0
R.A. Damper Open	[0.00]	[00:0]	[00:0]	[00:0]	[00:00]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]	[0.01]
Concentric Grill RXRN-AD80 or	0.21	0.25	0.28	0.32	0.35	0.39	0.43	0.46	0.50	0.54	0.57	0.61	0.64
RXRN-AD81 & Transition RXMC-CJ07	[0.02]	[0.06]	[0.0]	[0.08]	[0.09]	[0.10]	[0.11]	[0.11]	[0.12]	[0.13]	[0.14]	[0.15]	[0.16]
NOTE: Add commonant racistance to dust racistance to determine total external static pressure	cietance to	determine	total exter	n siteta len	receire								

AIRFLOW CORRECTION FACTORS—15 TON [52.8 kW]

						•							
ACTUAL—CFM	4800	2000	5200	5400	5600	2800	0009	6200	6400	0099	0089	2000	7200
[r/s]	[2265]	[2359]	[2454]	[2548]	[2643]	[2737]	[2831]	[2926]	[3020]	[3114]	[3209]	[3303]	[3388]
TOTAL MBH	0.98	0.98	0.99	1.00	1.00	1.01	1.02	1.02	1.03	1.04	1.04	1.05	1.06
SENSIBLE MBH	0.91	0.94	96.0	0.99	1.02	1.04	1.07	1.10	1.12	1.15	1.18	1.20	1.23
POWER KW	0.99	0.99	0.99	1.00	1.00	1.00	1.01	1.01	1.01	1.02	1.02	1.02	1.03
NOTES: Multiply correction factor times gross performance data-resulting sensible capacit	factor times gros	ss performance da	ata-resulting sen	sible capacity cann	not exceed total capacity	apacity.					[] Design] Designates Metric Conversions	conversions

AIRFLOW PERFORMANCE—RLKL-B SERIES



AIRFLOW PERFORMANCE—20 TON [70.3 kW]—SIDEFLOW

Figs	Model RLKL-8240 Voltage 208/230, 460, 575 — 3 Phase 60 Hz	RLKL-B240 Voltage 2	L-B240 Voltage 2	Voltage 2	'oltage ;	۳.	308	230,	460, 5	75-	-3 Ph	ase 6	ZH O																								
O. 7. I.17 O. 8. I.201 O. 9. I.221 O. 9. I.221 O. 9. I.221 O. 1. I.231 I. 1. I.271 I. 1. I.271 O. 9. I.221 O. 9. I.221 O. 9. I.221 I. 1. I.271 I. 1. I.271 O. 9. I.221 O. 9. I.221 O. 9. I.221 I. 1. I.271 II. I. I. I. I.271 II. I. I. I. I. I. II. III. III. III.																Exte	rnal (Static	Press	ĭure—	-Inche	s of V	Vater	[kPa]													
RPM W RPM W<	0.1 [.02] 0.2 [.05] 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15]	0.2 [.05] 0.3 [.07] 0.4 [.10] 0.5 [.12] 0	? [.05] 0.3 [.07] 0.4 [.10] 0.5 [.12] C	0.3 [.07] 0.4 [.10] 0.5 [.12] [[.07] 0.4 [.10] 0.5 [.12] [0.4 [.10] 0.5 [.12] ([.10] 0.5[.12] (0.5 [.12] ([.12]	Е	9.	[.15	-	[17]	0.8		0.9 [.		1.0.	-	Ξ			-	3.					=	7 [.42				-	5	50]
676 6222 689 2354 72 2487 745 621 786 786 345 311 881 381 381 881 385 989 989 989 381 381 381 381 381 381 382 381 </th <th>RPM W RPM W RPM W RPM W RPM W RPM W</th> <th>RPM</th> <th>RPM</th> <th>RPM</th> <th></th> <th>RPM W RPM W R</th> <th>1 W RPM W R</th> <th>RPM W R</th> <th>N N</th> <th>æ</th> <th>E</th> <th></th> <th></th> <th>></th> <th>RPM</th> <th>></th> <th>RPM</th> <th></th> <th>RPM</th> <th></th> <th>RPM</th> <th>_</th> <th>RPIM</th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th>_</th> <th></th> <th>_</th> <th></th> <th>RPM</th> <th>≥</th> <th>RPM</th> <th>8</th>	RPM W RPM W RPM W RPM W RPM W RPM W	RPM	RPM	RPM		RPM W RPM W R	1 W RPM W R	RPM W R	N N	æ	E			>	RPM	>	RPM		RPM		RPM	_	RPIM				_			_		_		RPM	≥	RPM	8
687 734 71 2476 72 261 75 269 796 372 817 817 8246 815 366 3456 815 366 3456 364 361 361 361 361 362 361 362 361 362 361 362 361 362 <td>9 - - - - - - - - - </td> <td></td> <td></td> <td></td> <td> </td> <td> </td> <td> </td> <td>-</td> <td></td> <td>9</td> <td>22</td> <td>652 2091</td> <td></td> <td>,</td> <td></td> <td>2354</td> <td>722</td> <td></td> <td>745</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>3902</td> <td></td> <td>4121</td>	9 - - - - - - - - -				 	 		-		9	22	652 2091		,		2354	722		745							-								-	3902		4121
697 2468 720 2607 742 274 742 274 742 804 345 345 345 345 345 345 345 345 345 345 345 347 864 364 364 364 365 367 </td <td>$- \mid - \mid 639 \mid 2074 \mid 66$</td> <td> - - - - 639 2074</td> <td> - - - - 639 2074</td> <td> - - - 639 2074</td> <td>— — 639 2074</td> <td>— 639 2074</td> <td>639 2074</td> <td>2074</td> <td>2074</td> <td></td> <td>က</td> <td>663 2207</td> <td></td> <td>2341</td> <td></td> <td>2476</td> <td>732</td> <td>2613</td> <td>754</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4056</td> <td></td> <td>4271</td>	$- \mid - \mid 639 \mid 2074 \mid 66$	- - - - 639 2074	- - - - 639 2074	- - - 639 2074	— — 639 2074	— 639 2074	639 2074	2074	2074		က	663 2207		2341		2476	732	2613	754																4056		4271
2604 730 2747 782 389 784 3678 8673 3678 8673 3678 8673 3678 8673 3679 879 3779 880 3679 889 4108 916 4265 382 4471 947 4674 9674	- - - - - - - 651 2194 674	- - - 651 2194	- - - 651 2194	— — 651 2194	— — 651 2194	— 651 2194	651 2194	651 2194	2194		-	2331		2468		2607		2747		2889															4283		4432
71 249 741 2885 762 304 864 862 379 880 395 410 916 426 922 441 865 926 413 3644 862 379 880 395 416 916 426 926 413 364 862 379 889 413 906 4289 324 454 388 460 971 371 386 862 381 871 397 889 413 906 4289 414 487 381 461 971 387 889 413 906 487 381 467 381 871 381 871 387 886 882 416 410 914 487 914 487 914 487 914 487 914 487 914 487 914 487 914 487 914 487 914 487 914 887 480 914 487<	$- \mid - \mid - \mid - \mid - \mid - \mid - \mid 638 \mid 2184 \mid 662 \mid 2323 \mid 68 \mid 681 \mid$	- - 638 2184 662 2323	- - 638 2184 662 2323	— 638 2184 662 2323	638 2184 662 2323	2323	2323	2323	2323		5	685 2463		2		2747				3035															4448		4603
730 2902 752 3051 773 3204 773 3204 773 3204 773 3204 773 3205 783 3804 862 862 861 4001 379 4162 873 4162 874 4162 874 4162 874 4162 874 4162 874 4162 874 4162 874 4162 874 4164 487 931 4614 987 467 976 978 978 487 974 487 974 487 975 974	$- \mid - \mid 650 \mid 2318 \mid 674 \mid 2460 \mid 697 \mid 674 \mid 676 \mid 697 \mid $	650 2318 674 2460	650 2318 674 2460	— 650 2318 674 2460	650 2318 674 2460	2318 674 2460	2318 674 2460	674 2460				697 2604				2895	762	3042		_															4624		4784
741 3063 762 3216 783 3871 8053 842 842 861 4001 879 4162 974 4487 931 4651 945 945 940 975 978 970 978 970 978 970 978 970 978 970 978 970 <th< td=""><td>- $$ $$ $$ $$ $$ 639 $$ 2315 $$ 662 $$ 2460 $$ 685 $$ 2606 $$ 708</td><td> — 639 2315 662 2460 685 2606</td><td> — 639 2315 662 2460 685 2606</td><td>2315 662 2460 685 2606</td><td>2315 662 2460 685 2606</td><td>662 2460 685 2606</td><td>2460 685 2606</td><td>685 2606</td><td>2606</td><td></td><td></td><td>2753</td><td></td><td>2</td><td></td><td>3051</td><td></td><td>3202</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4810</td><td></td><td>4976</td></th<>	- $ $ $ $ $ $ $ $ $ $ 639 $ $ 2315 $ $ 662 $ $ 2460 $ $ 685 $ $ 2606 $ $ 708	— 639 2315 662 2460 685 2606	— 639 2315 662 2460 685 2606	2315 662 2460 685 2606	2315 662 2460 685 2606	662 2460 685 2606	2460 685 2606	685 2606	2606			2753		2		3051		3202																	4810		4976
75 323 77 3390 794 3540 374 3540 374 3540 374 3540 374 3540 374 3540 374 360 452 405 4550 460 961 4520 804 4392 807 450 460 974 4750 974 500 944 505 974 504 961 505 977 470 980 974 470 974 470 974 500 944 506 974 470 974 507 974 976 975 975 <t< td=""><td>— — — — 651 2462 674 2611 697 2760 719</td><td>— 651 2462 674 2611 697 2760 719</td><td>— 651 2462 674 2611 697 2760 719</td><td>2462 674 2611 697 2760 719</td><td>2462 674 2611 697 2760 719</td><td>674 2611 697 2760 719</td><td>697 2760 719</td><td>697 2760 719</td><td>2760 719</td><td>719</td><td>Ι.</td><td>2911</td><td>_</td><td>3063</td><td></td><td>3216</td><td>783</td><td>3371</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>_</td><td>2002</td><td></td><td>5179</td></t<>	— — — — 651 2462 674 2611 697 2760 719	— 651 2462 674 2611 697 2760 719	— 651 2462 674 2611 697 2760 719	2462 674 2611 697 2760 719	2462 674 2611 697 2760 719	674 2611 697 2760 719	697 2760 719	697 2760 719	2760 719	719	Ι.	2911	_	3063		3216	783	3371								_						_		_	2002		5179
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787 3794 807 3861 8.65 4130 8.64 48.0 881 48.16 891 48.16 992 572 379 570 904 552.2 375 570 904 570 903 580 908 580 909 580 502 537 540 560 562 582 570 903 570 903 560 903	8200 [3869] 643 2640 666 2797 689 2954 711 3114 733 3274 754 3	666 2797 689 2954 711 3114 733 3274 754	689 2954 711 3114 733 3274 754	689 2954 711 3114 733 3274 754	2954 711 3114 733 3274 754	711 3114 733 3274 754	733 3274 754	733 3274 754	754	754	.,	3435				3762		3927																			5850
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81 42 10 829 4385 848 4561 866 4738 884 4516 901 5096 918 5277 835 5434 846 5645 862 878 6013 993 6208 1009 6408 6408 648 848 848 85 568 85 868 508 85 567 868 85 568 88 529 85 568 87 86 568 87 86 568 88 529 87 86 568 88 529 87 86 568 87 86 568 87 86 568 88 568 87 86 568 88 5	671 2996 693 3160 715 3325 737 3491 758 3659 778 3827	3325	3325	3325	3325	737 3491 758 3659 778	3491 758 3659 778	1 758 3659 778	3659 778	8 <i>2</i> 2		3827				4169																		1001	6148	I	1
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834 4660 853 4842 871 5025 888 5209 905 5395 922 5582 933 5784 899 5963 964 6149 980 6342 980 6541 1010 6747 — — — — — 848 58 508 508 508 508 508 508 508 508 508	9000 [4247] 698 3387 720 3558 742 3730 763 3903 783 4078 803										Ť	4254		_		4609		4789				-										72 100)2 6472		Ι	Ι	1
846 4898 865 5083 882 5270 899 5458 916 5647 932 5888 942 6040 658 6225 973 6418 989 6616 1004 6821 — — — — — — — — 85 5144 877 5333 894 5524 911 5715 927 5908 937 6122 952 6307 968 6498 983 6696 998 6901 — — — — — — — — — —	9200 [4341] 713 3595 734 3769 755 3945 776 4122 796 4300 815	3945 776 4122 796 4300	3945 776 4122 796 4300	3945 776 4122 796 4300	3945 776 4122 796 4300							4479		4		4842		5025														41 101	10 6747		I	I	1
859 5144 877 5333 894 5524 911 5715 927 5908 937 6122 952 6307 968 6498 983 6696 998 6901	9400 [4436] 727 3811 748 3989 769 4168 <u> 789 4349</u> 808 4531 828	769 4168 789 4349 808 4531	769 4168 789 4349 808 4531	769 4168 789 4349 808 4531	4168 789 4349 808 4531	789 4349 808 4531	808 4531	808 4531	4531			4714		4		5083		5270															Ė	1	1	Τ	1
	9600 [4530] 741 4036 762 4218 782 4400 802 4585 821 4770 840 4956	5 762 4218 782 4400 802 4585 821 4770 84	2 4218 782 4400 802 4585 821 4770 84	782 4400 802 4585 821 4770 84	4400 802 4585 821 4770 84	802 4585 821 4770 84	4585 821 4770 84	5 821 4770 84	4770 84	8	0	4956				5333	894	5524			927										_	_	_	1	I	1	1

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

Drive Package			_						Σ) N	I (field installed only)	lled only	_	
Motor H.P. [W]			5.0 [3728.5]	728.5]					7.5 [5592.7]	92.7]					7.5 [5592.7]	12.7]		
Blower Sheave			BK130H	30H					BK130H	동					BK120H	동		
Motor Sheave			1VP-56	-56					1VP-71	71					1VP-71	71		
Turns Open	-	2	က	4	5	9	-	2	3	4	2	9	-	2	3	4	2	9
RPM	756	734	734 709	683	658	631	928	905	874	847	820	793	1009	981	922	928	668	870

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

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

COMPONENT AIRFLOW RESISTANCE—20 TON [70.3 kW]

	6400	0099	0089	2000	7200	7400	2600	7800	8000	8200	8400	8600	8800	0006	9200	9400	0096
CFM	[3020]	[3114]	[3209]	[3303]	[3398]	[3492]	[3586]	[3681]	[3775]	[3869]	[3964]	[4058]	[4153]	[4247]	[4341]	[4436]	[4530]
[۲/9]							Resista	Resistance —	Inches o	of Water	[kPa]						
lio J to M	0.00	0.00	00'0	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	90.0	90.0	0.07	0.07
100	[.00]	[.00]	[.00]	[.00]	[.00]	[.00]		[.01]	[.01]	[.01]	[.01]	[.01]	[.01]	[.01]	[.01]	[.02]	[.02]
	90.0	90.0	0.07	0.08	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.18	0.19	0.20	0.22
	[.01]	[.01]	[.02]	[.02]	[.02]	[.02]	[.02]	[.03]	[:03]	[:03]	[:03]	[.04]	[.04]	[.04]	[:05]	[.05]	[.05]
Downflow Economizer	0.15	0.16	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30
R.A. Damper Open	[.04]	[.04]	[.04]	[.04]	[.04]	[.05]	[.05]	[.05]	[.05]	[.06]	[.06]	[.06]	[.06]	[.07]	[.07]	[.07]	[.07]
Horizontal Economizer	0.04	0.05	0.05	90.0	90.0	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13
R.A. Damper Open	[.01]	[.01]	[.01]	[.0	[.01]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[:03]	[.03]	[:03]	[.03]	[.03]
Concentric Grill RXRN-AD86	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47	0.5	0.53	0.56	0.59	0.62	0.65	69.0	0.72	0.75
& Transition RXMC-CK08	[90.]	[.07]	[80.]	[60:]	[00]	[01.]	<u>E</u> .	[12]	[12]	[.13]	[14]	[15]	[15]	[16]	[17]	[.18]	[19]

AIRFLOW CORRECTION FACTORS—20 TON [70.3 kW]

)			7:::									
ACTUAL—CFM	6400	0099	0089	7000	7200	7400	0092	7800	8000	8200	8400	0098	8800	0006	9200	9400	0096
[L/s]	[3020]	[3114]	[3209]	[3303]	[3338]	[3492]	[3286]	[3681]	[3775]	[3869]	[3964]	[4058]	[4153]	[4247]	[4341]	[4436]	[4530]
TOTAL MBH	0.97	0.97	0.98	0.98	0.99	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.02	1.03	1.03	1.04	1.04
SENSIBLE MBH	0.87	0.89	0.91	0.93	0.95	0.97	96:0	1.00	1.02	1.04	1.06	1.08	1.09	1.11	1.13	1.15	1.17
POWER KW	0.98	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.02	1.02
MOTES. Malitials correction feature times are so anaformance data reculting consists connect across the designation	otion footor tir	20020	formono dot	o paiting o	tionana oldina	2000 +00000 14	Sagar latat bac	į.						2	1 Decignation Matrice Contractions	Action Co.	oroio.

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



ELECTRICAL DATA—RLKL-B SERIES

		ELECTR	RICAL DATA –	RLKL- SERIE	\$		
		B180CL	B180CM	B180DL	B180DM	B180YL	B180YM
	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633
ioi	Volts	208/230	208/230	460	460	575	575
.maj	Minimum Circuit Ampacity	75/75	78/78	38	40	28	30
Unit Information	Minimum Overcurrent Protection Device Size	90/90	90/90	45	45	30	35
'n	Maximum Overcurrent Protection Device Size	90/90	100/100	50	50	35	35
	No.	2	2	2	2	2	2
	Volts	200/230	200/230	460	460	575	575
5	Phase	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450
l io	HP, Compressor 1	7	7	7	7	7	7
res	Amps (RLA), Comp. 1	25/25	25/25	12.2	12.2	9	9
Compressor Motor	Amps (LRA), Comp. 1	164/164	164/164	100	100	78	78
<u> </u>	HP, Compressor 2	6	6	6	6	6	6
	Amps (RLA), Comp. 2	25/25	25/25	12.8	12.8	9.6	9.6
	Amps (LRA), Comp. 2	164/164	164/164	100	100	78	78
-	No.	3	3	3	3	3	3
Compressor Motor	Volts	208/230	208/230	460	460	575	575
sor	Phase	1	1	1	1	1	1
res	HP	1/2	1/2	1/2	1/2	1/2	1/2
l m	Amps (FLA, each)	2.3/2.3	2.3/2.3	1.5	1.5	1	1
ŭ	Amps (LRA, each)	5.6/5.6	5.6/5.6	3.1	3.1	2.2	2.2
	No.	1	1	1	1	1	1
Fan	Volts	208/230	208/230	460	460	575	575
to.	Phase	3	3	3	3	3	3
pora	HP	3	5	3	5	3	5
Evaporator Fan	Amps (FLA, each)	11.5/11.5	14.9/14.9	4.6	6.6	3.5	5.3
	Amps (LRA, each)	74.5/74.5	82.6/82.6	38.1	46.3	20	39.4

ELECTRICAL DATA—RLKL-B SERIES



			ELECTRIC	CAL DATA	– RLKL-	SERIES				
		B240CL	B240CM	B240CN	B240DL	B240DM	B240DN	B240YL	B240YM	B240YN
	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	518-632	518-632	518-632
io i	Volts	208/230	208/230	208/230	460	460	460	575	575	575
l ma	Minimum Circuit Ampacity	94/94	102/102	102/102	51	54	54	37	39	39
Unit Information	Minimum Overcurrent Protection Device Size	110/110	110/110	110/110	60	60	60	40	45	45
n	Maximum Overcurrent Protection Device Size	125/125	125/125	125/125	60	70	70	45	50	50
	No.	2	2	2	2	2	2	2	2	2
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
=	Phase	3	3	3	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
Sorl	HP, Compressor 1	10	10	10	10	10	10	10	10	10
res	Amps (RLA), Comp. 1	33.6/33.6	33.6/33.6	33.6/33.6	17.9	17.9	17.9	12.8	12.8	12.8
Compressor Motor	Amps (LRA), Comp. 1	239/239	239/239	239/239	125	125	125	80	80	80
ت	HP, Compressor 2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2
	Amps (RLA), Comp. 2	30.1/30.1	30.1/30.1	30.1/30.1	16.7	16.7	16.7	12.2	12.2	12.2
	Amps (LRA), Comp. 2	225/225	225/225	225/225	114	114	114	80	80	80
<u>5</u>	No.	3	3	3	3	3	3	3	3	3
₩	Volts	208/230	208/230	208/230	460	460	460	575	575	575
sor	Phase	1	1	1	1	1	1	1	1	1
Compressor Motor	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.3/2.3	2.3/2.3	2.3/2.3	1.5	1.5	1.5	1	1	1
ာ	Amps (LRA, each)	5.6/5.6	5.6/5.6	5.6/5.6	3.1	3.1	3.1	2.2	2.2	2.2
_	No.	1	1	1	1	1	1	1	1	1
Far	Volts	208/230	208/230	208/230	460	460	460	575	575	575
Evaporator Fan	Phase	3	3	3	3	3	3	3	3	3
bor	HP	5	7 1/2	7 1/2	5	7 1/2	7 1/2	5	7 1/2	7 1/2
Eva	Amps (FLA, each)	14.7/14.7	23.1/23.1	23.1/23.1	6.6	9.6	9.6	5.3	7.8	7.8
	Amps (LRA, each)	82.6/82.6	136/136	136/136	46.3	67	67	39.4	53.8	53.8



UNITS WITH HEATER KITS—RLKL-B SERIES

			208/240 Single Power §	208/240 VOLI, IHREE PH. Single Power Supply for Both Un	ASE, 60 HZ, AUX lit and Heater Kit	ASE, 60 HZ, AUXILIARY ELECTRIC HEALER KITS CHARACTERISTICS AND APPLICATION it and Heater Kit Separate Pow	IC HEAIER KII	S CHARACIER	ISTICS AND APP	APPLICATION Separate Power Supply for Both Unit and Heater Kit	ıply for Both Uni	t and Heater K	ıţ
			Heater Kit			A	Air Conditioner		Heat	Heater Kit	A	Air Conditioner	
Model	RXJJ-	No. of	Rated	Heater	Heater	Unit Min. Ckt.	Over C Protective I	Over Current Protective Device Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device	Over Current Protective Device Size
RLKL-	neater Kit Nominal kW	Steps Steps	meater kw @ 208/240V	@ 208/240V	Amps @ 208/240V	Ampacity @ 208/240V	Min./Max 208V	Min./Max. 240V	Ampacity 208/240V	Size 208/240V	Ampacity 208/240V	Min./Max. 208V	Min./Max. 240V
	No Heat	1	1	1	1	75/75	06/06	06/06	1	1	75/75	06/06	06/06
	CE20C	-	14.4/19.2	49.13/65.5	40/46.2	75/75	06/06	06/06	50/58	20/09	75/75	06/06	06/06
B180CL	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	115/130	125/125	150/150	100/116	100/125	75/75	06/06	06/06
	CEGOC	2	43.2/57.5	147.38/196.16	119.9/138.3	165/188	175/175	200/200	150/173	150/175	75/75	06/06	06/06
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	202/231	225/225	250/250	188/217	200/225	22/22	06/06	06/06
	No Heat	I	I	I		94/94	110/125	110/125	I	I	94/94	110/125	110/125
	CE20C	-	14.4/19.2	49.13/65.5	40/46.2	94/94	110/125	110/125	50/58	20/00	94/94	110/125	110/125
B240CL	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	119/134	125/125	150/150	100/116	100/125	94/94	110/125	110/125
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	169/192	175/175	200/200	150/173	150/175	94/94	110/125	110/125
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	206/235	225/225	250/250	188/217	200/225	94/94	110/125	110/125
	No Heat	1	-			28/82	90/100	90/100	1		78/78	90/100	90/100
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	28/82	90/100	90/100	20/28	20/09	78/78	90/100	90/100
B180CM	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	119/134	125/125	150/150	100/116	100/125	78/78	90/100	90/100
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	169/192	175/175	200/200	150/173	150/175	78/78	90/100	90/100
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	206/235	225/225	250/250	188/217	200/225	78/78	90/100	90/100
	No Heat	1	-			102/102	110/125	110/125			102/102	110/125	110/125
	CE20C	1	14.4/19.2	49.13/65.5	40/46.2	102/102	125/125	125/125	20/28	20/09	102/102	110/125	110/125
B240CM	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	129/145	150/150	150/150	100/116	100/125	102/102	110/125	110/125
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	179/202	200/200	225/225	150/173	150/175	102/102	110/125	110/125
<u>'</u>	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	217/245	225/225	250/250	188/217	200/225	102/102	110/125	110/125
	No Heat	I	I	ı	I	101/101	110/125	110/125	I	I	102/102	110/125	110/125
	CE20C	-	14.4/19.2	49.13/65.5	40/46.2	101/101	125/125	125/125	50/58	20/09	102/102	110/125	110/125
B240CN	CE40C	2	28.8/38.3	98.25/130.66	79.9/92.2	129/145	150/150	150/150	100/116	100/125	102/102	110/125	110/125
	CE60C	2	43.2/57.5	147.38/196.16	119.9/138.3	179/202	200/200	225/225	150/173	150/175	102/102	110/125	110/125
	CE75C	2	54/71.9	184.22/245.29	149.8/172.8	217/245	225/225	250/250	188/217	200/225	102/102	110/125	110/125

+ = Field installed only.

UNITS WITH HEATER KITS—RLKL-B SERIES



			ize	Max. √																								,
	Kit	-	Over Current Protective Device Size	Min./Max 480V																								1
	t and Heater	Air Conditione	Over Protective	Min./Max. 480V	45/20	45/20	45/50	45/20	45/50	09/09	09/09	09/09	09/09	09/09	45/50	45/50	45/50	45/50	45/50	02/09	02/09	02/09	02/09	02/09	02/09	02/09	02/09	02/09
	Separate Power Supply for Both Unit and Heater Kit	A	Min. Circuit	480V	38	38	38	38	38	51	51	51	51	51	40	40	40	40	40	54	54	54	54	54	54	54	54	54
CATION	arate Power Sup	er Kit	Max. Fuse	3126 480V	1	30	09	06	110	ı	30	09	06	110	I	30	09	06	110	I	30	09	06	110	I	30	09	06
TICS AND APPLI	Sep	Heater Kit	Min. Ckt.	480V	1	29	58	87	109	1	29	58	87	109	ı	29	58	87	109	I	29	58	87	109	1	29	28	87
CHARACTERIS			urrent Device Size	Min./Max. 480V	1	I	I	1	I	ı	I	I	I	ı	ı	I	ı		1	I	1	ı	I	I	I	I	1	I
HEATER KITS		Air Conditioner	Over Current Protective Device Size	Min./Max 480V	45/50	45/50	70/70	100/100	125/125	09/09	09/09	70/70	100/100	125/125	45/50	45/50	70/70	100/100	125/125	02/09	02/09	02/02	100/100	125/125	02/09	02/09	02/02	100/100
60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	ıt	V	Unit Min. Ckt.	Ampacity @ 480V	38	38	64	63	114	51	51	29	<u> </u>	117	40	40	29	96	117	24	24	02	66	121	54	24	02	66
	it and Heater Kit		Heater	Amps @ 480V		23.1	46.2	69.3	9.98	1	23.1	46.2	69.3	9.98	I	23.1	46.2	69.3	86.6	I	23.1	46.2	69.3	9.98	I	23.1	46.2	69.3
480 VOLT, THREE PHASE,	Single Power Supply for Both Unit		Heater	@ 480V	1	65.5	131	196.5	245.63	I	65.5	131	196.5	245.63	ı	65.5	131	196.5	245.63	ı	65.5	131	196.5	245.63	I	65.5	131	196.5
480 VC	Single Power St	Heater Kit	Rated	meater kw @ 480V		19.2	38.4	57.6	72	ı	19.2	38.4	9.75	72	ı	19.2	38.4	97.6	72	ı	19.2	38.4	57.6	72	I	19.2	38.4	57.6
			No. of	Steps	1	-	2	2	2	1	-	2	2	2	I	-	2	2	2	I	-	2	2	2	1	-	2	2
			RXJJ-	Nominal kW	No Heat	CE20D	CE40D	CE60D	CE75D	No Heat	CE20D	CE40D	CE60D	CE75D	No Heat	CE20D	CE40D	CE60D	CE75D	No Heat	CE20D	CE40D	CE60D	CE75D	No Heat	CE20D	CE40D	CE60D
			Model	RLKL-		I	180DL				I	240DL				I	180DM					240DM	-	I			240DN	



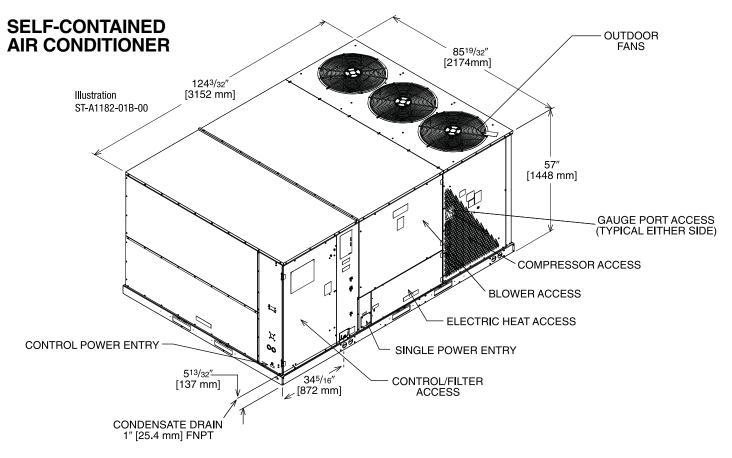
UNITS WITH HEATER KITS—RLKL-B SERIES

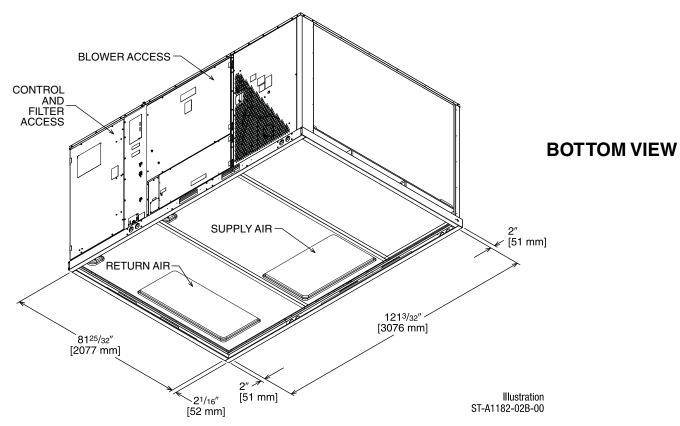
			1009 N	600 VOLT, THREE PHASE	1	60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION	HEATER KITS	CHARACTERIS	TICS AND APPLI	CATION			
			Single Power S	Single Power Supply for Both Unit	nit and Heater Kit	it			Sep	arate Power Sup	Separate Power Supply for Both Unit and Heater Kit	t and Heater Ki	_
			Heater Kit			Ā	Air Conditioner		Heat	Heater Kit	A	Air Conditioner	
Model	RXJJ-	No. of	Rated	Heater	Heater	Unit Min. Ckt.	Over (Protective	Over Current Protective Device Size	Min. Ckt.	Max. Fuse	Min. Circuit	Over Current Protective Device Size	urrent evice Size
NO.	neater Kit Nominal KW	Steps	meater kw @ 600V	WB10/HF @ 600V	Amps @ 600V	Ampacity @ 600V	Min./Max 600V	Min./Max. 600V	600V	91ze 600V	Ampacity 600V	Min./Max. 600V	Min./Max. 600V
	No Heat		1			28	30/35	I			28	30/35	
	CE20Y	-	19.2	65.5	18.5	28	30/35	ı	24	25	28	30/35	
B180YL	CE40Y	2	38.4	131	37	51	09/09	I	47	20	28	30/35	I
	CE60Y	2	57.6	196.5	55.4	74	08/08	I	70	70	28	30/35	I
	CE75Y	2	72	245.63	69.3	92	100/100	I	87	06	28	30/35	1
	No Heat	I	I	I		37	40/45	I	1	I	28	40/45	I
	CE20Y	-	19.2	65.5	18.5	37	40/45	I	24	25	28	40/45	I
B240YL	CE40Y	2	38.4	131	37	23	09/09	1	47	20	28	40/45	1
	CE60Y	2	9'29	196.5	55.4	9/	08/08	1	20	20	28	40/45	I
	CE75Y	2	72	245.63	69.3	94	100/100	1	87	90	37	40/45	1
	No Heat	1	1	Ι	1	30	32/32	1	1		08	32/32	1
	CE20Y	1	19.2	65.5	18.5	30	35/35	-	24	25	30	32/32	1
B180YM	CE40Y	2	38.4	131	37	53	60/60	1	47	50	30	35/35	1
	CE60Y	2	57.6	196.5	55.4	92	80/80	1	70	70	30	35/35	1
	CE75Y	2	72	245.63	69.3	94	100/100	1	87	90	30	35/35	
	No Heat	1	1	1	1	39	45/50	1	1	1	39	45/50	1
	CE20Y	1	19.2	65.5	18.5	39	45/50	_	24	25	68	45/20	1
B240YM	CE40Y	2	38.4	131	37	22	60/60	1	47	20	39	45/50	
	CE60Y	2	57.6	196.5	55.4	80	80/80	1	70	70	39	45/50	
	CE75Y	2	72	245.63	69.3	97	100/100	1	87	06	39	45/50	1
	No Heat	l	I	I	I	39	45/20	I	1	I	68	45/20	I
	CE20Y	_	19.2	65.5	18.5	39	45/50	1	24	25	39	45/50	
B240YN	CE40Y	2	38.4	131	37	22	09/09	1	47	50	39	45/50	1
	CE60Y	2	57.6	196.5	55.4	80	80/80		70	70	39	45/50	1
	CE75Y	2	72	245.63	69.3	97	100/100		87	06	39	45/50	

+ = Field installed only.

UNIT DIMENSIONS—RLKL-B SERIES



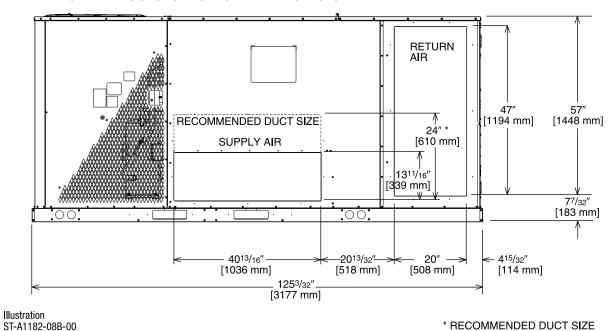






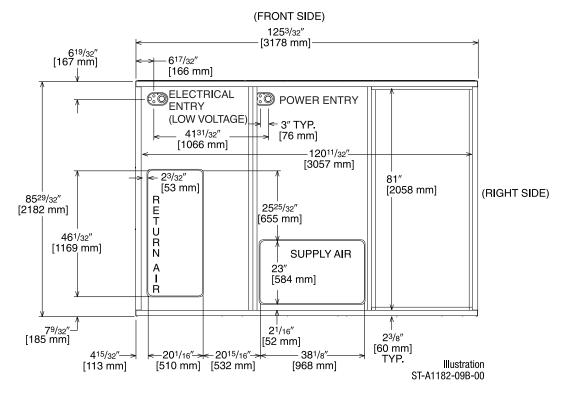
SELF-CONTAINED AIR CONDITIONER

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



DUCT SIDE VIEW (REAR)

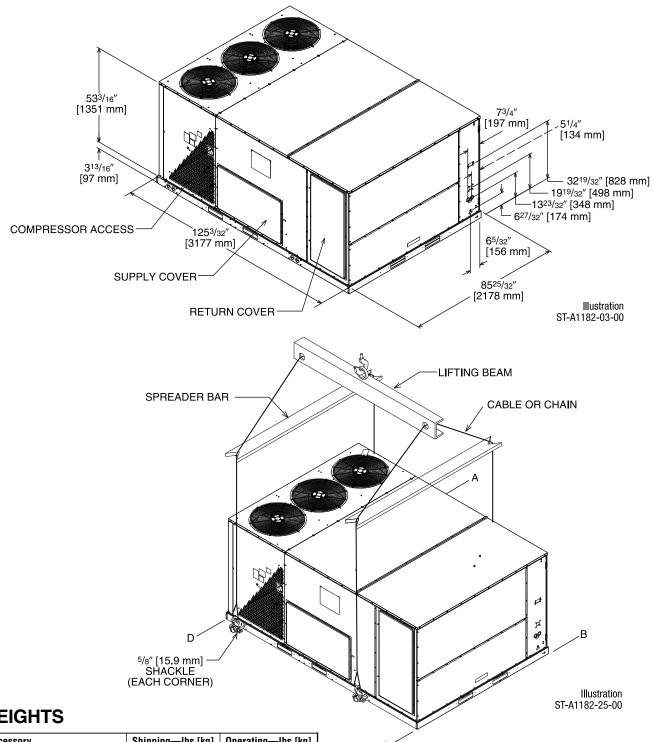
SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



BOTTOM VIEW



UNIT DIMENSIONS SELF-CONTAINED AIR CONDITIONER



WEIGHTS

Accessory	Shipping—lbs [kg]	Operating—lbs [kg]
Downflow Economizer	277 [125.6]	168 [76.2]
Horizontal Economizer	333 [151.0]	301 [136.5]
Power Exhaust	119 [54.0]	59 [26.8]
Manual Fresh Air Damper*	61 [27.7]	52 [23.6]
Motor Kit for Fresh Air Damper*	42 [19.1]	35 [15.9]
Roofcurb, 14"	184 [83.5]	176 [79.8]
Hail Guard	50 [22.7]	45 [20.4]

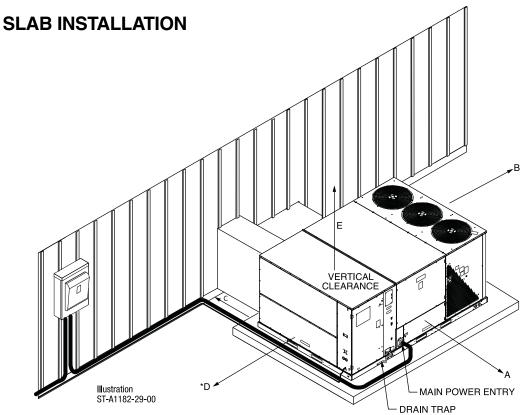
NOTES: *Motorized Kit and Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection.

Co	rner Weights	by Percenta	ge
Α	В	С	D
32%	27%	16%	24%

^{*}Note: Corner weights measured at base of unit.

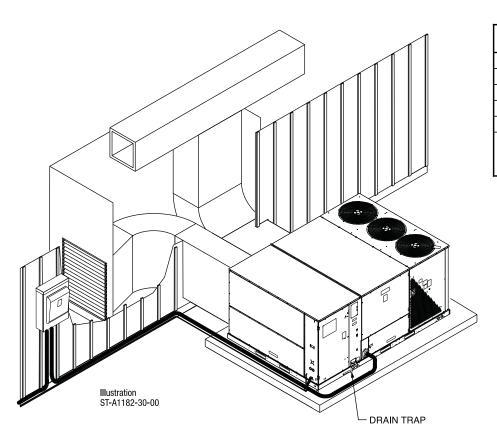


UNIT DIMENSIONS—RLKL-B SERIES



CLEARANCES

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



Recommended Clearance In. [mm]	Location				
80 [2032]	A - Front				
18 [457]	B - Condenser Coil				
18 [457]	+C - Duct Side				
18 [457]	*D - Evaporator End				
60 [1524]	E - Above				
"Without Economizer 18" [457 mm]. With Economizer 48" [1219 mm]. +Without Horizontal Economizer 18" [457 mm]. With Horizontal Economizer 42" [1067 mm].					



[] Designates Metric Conversions

FIELD INSTALLED ACCESSORY EQUIPMENT-SELF CONTAINED AIR CONDITIONER

Accessory Description	Shipping Model Number Weight Lbs. [kg]		Installed Weight Lbs. [kg]	Factory Installation Available?
Thermostat or Room Sensor	See Thermos	No		
	RXJJ-CE20 (C,D,Y)	41 [18.6]	31 [14.1]	Yes
Electric Heaters	RXJJ-CE40 (C,D,Y)	44 [20.0]	34 [15.4]	Yes
Electric reaters	RXJJ-CE60 (C,D,Y)	45 [20.4]	35 [15.9]	Yes
	RXJJ-CE75 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
Downflow Economizer w/Single Enthalpy	RXRD-PGCM3	277 [125.6]	168 [76.2]	Yes
Downflow Economizer w/Smoke Detector	RXRD-SGCM3	280 [127.0]	171 [77.6]	Yes
Dual Enthalpy Kit	RXRX-AV02	1 [0.5]	0.5 [0.2]	No
Horizontal Economizer w/ Single Enthalpy	RXRD-RGCM3	333 [151.0]	301 [136.5]	No
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02	3 [1.4]	2 [0.9]	No
Power Exhaust (208/230V)	RXRX-BGF05C	119 [54.0]	59 [26.8]	No
Power Exhaust (460V)	RXRX-BGF05D	119 [54.0]	59 [26.8]	No
Power Exhaust (575V)	RXRX-BGF05Y	119 [54.0]	59 [26.8]	No
Manual Fresh Air Damper*	RXRF-KFA1	61 [27.7]	52 [23.6]	No
Motorized Kit for Manual Fresh Air Damper*	RXRX-AW03	42 [19.1]	35 [15.9]	No
Roofcurb, 14"	RXKG-CBH14	184 [83.5]	176 [79.8]	No
Roofcurb Adapter to RXRK-E56	RXRX-CJCE56	465 [210.9]	415 [188.2]	No
Roofcurb Adapter to RXKG-CAF14	RXRX-CJCF14	555 [251.7]	505 [229.1]	No
Concentric Diffuser (Step-Down 18" x 36")	RXRN-AD81	310 [140.6]	157 [71.2]	No
Concentric Diffuser (Step-Down 24" x 48")	RXRN-AD86	367 [166.5]	212 [96.2]	No
Concentric Diffuser (Flush, 18" x 36")	RXRN-AD80	213 [96.6]	115 [52.2]	No
Downflow Transition (Rect. To Rect. 18" x 36")	RXMC-CJ07 ¹	81 [36.7]	74 [33.6]	No
Downflow Transition (Rect. To Rect. 24" x 48")	RXMC-CK08 ²	81 [36.7]	74 [33.6]	No
Compressor Time-Delay Relay Kit	RXMD-A04	2 [0.9]	1 [0.5]	No
Low-Ambient Control Kit (1 Per Compressor)	RXRZ-C02	3 [1.4]	2 [0.9]	Yes
Freeze Stat	RXRX-AM03	1 [0.5]	0.5 [0.2]	Yes
Non-Powered Convenience Outlet	RXRX-AN01	2 [0.9]	1.5 [0.7]	Yes
Hail Guard	RXRX-AAD01K	50 [22.7]	45 [20.4]	Yes

NOTES: *Motorized Kit and Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection
1. Used with RXRN-AD81 and RXRN-AD80 concentric diffusers
2. Used with RXRN-AD86 concentric diffusers

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)	
UHC		-	TST	101 GE		MS	
UHC=Ruud			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 T22-001.

10" [254 mm]



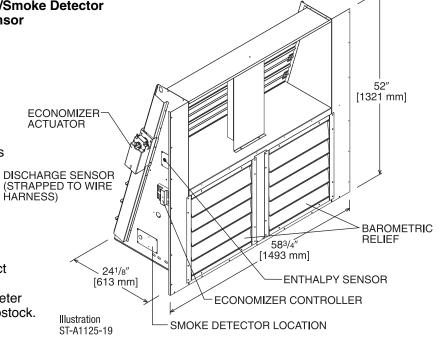
ECONOMIZERS—DOWNFLOW ONLY

Field Installed

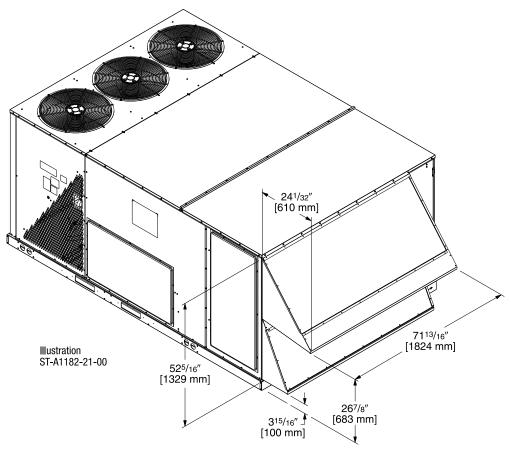
RXRD-PGCM3—Single Enthalpy (Outdoor)
RXRD-SGCM3—Single Enthalpy (Outdoor) w/Smoke Detector
RXRX-AR02—Optional Wall-Mounted CO₂ Sensor

RXRX-AV02—Dual Enthalpy Upgrade Kit

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



TOLERANCE ±.125

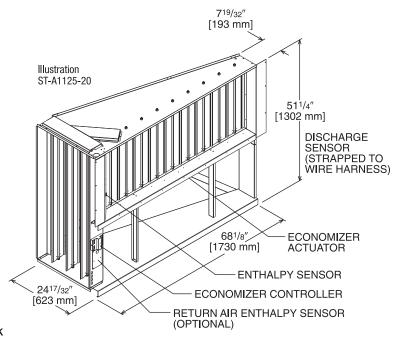




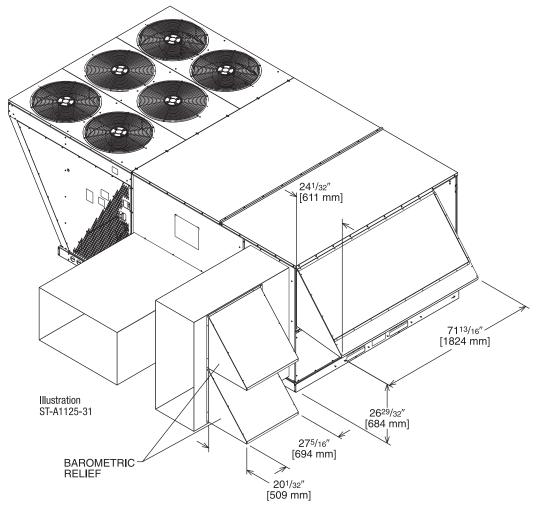
ECONOMIZER FOR HORIZONTAL DUCT INSTALLATIONField Installed Only

RXRD-RGCM3—Single Enthalpy (Outdoor) RXRX-AV02—Dual Enthalpy Upgrade Kit RXRX-AR02—Optional Wall-Mounted CO₂ Sensor

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



TOLERANCE ± .125

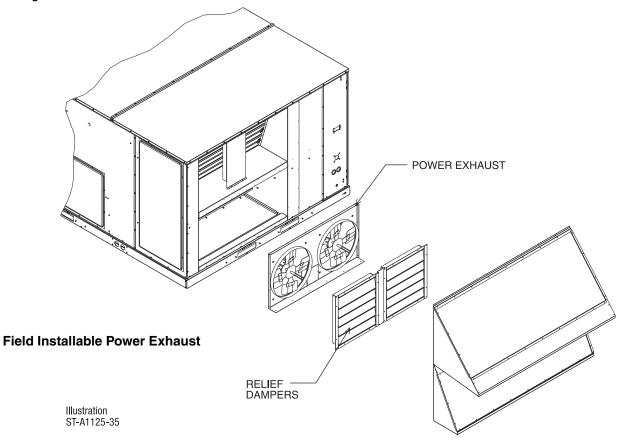




INTEGRAL POWER EXHAUST KIT FOR RXRD-PGCM3 OR SGCM3 ECONOMIZERS

RXRX-BGF05 (C, D, or Y*)

*Voltage Code



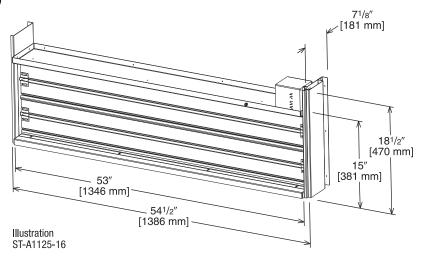
Model No.	No. Volts		Phase	HP	Low Speed		High Speed ①		FLA	LRA
	of Fans	VUIIS	riiase	(ea.)	CFM [L/s] 2	RPM	CFM [L/s] ②	RPM	(ea.)	(ea.)
RXRX-BGF05C	2	208-230	1	0.75	4100 [1935]	850	5200 [2454]	1050	5	4.97
RXRX-BGF05D	2	460	1	0.75	4100 [1935]	850	5200 [2454]	1050	2.2	3.4
RXRX-BGF05Y	2	575	1	0.75	4100 [1935]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

NOTES: ① Power exhaust is factory set on high speed motor tap. ② CFM is per fan at 0" w.c. external static pressure.

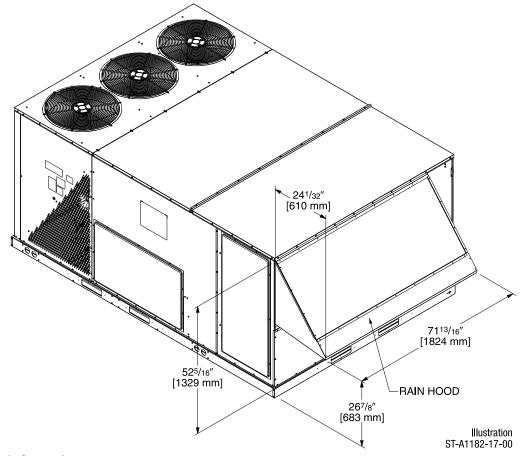


FRESH AIR DAMPER

MOTORIZED DAMPER KIT RXRX-AW03 (Motor Kit for RXRF-KFA1)



RXRF-KFA1 (Manual)
RXRX-AW03 (Motorized damper kit for manual fresh air damper)

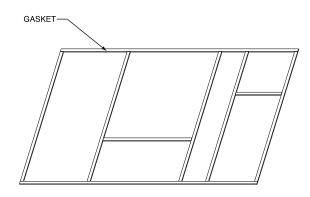


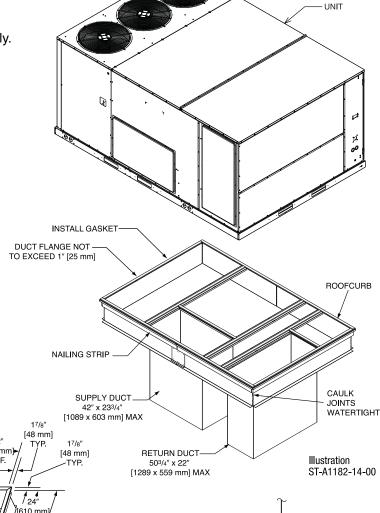


ROOFCURBS (Full Perimeter)

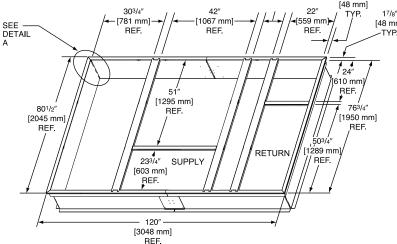
- Ruud's roofcurb design can be utilized on 15 & 20 [52.8 & 70.3 kW] models.
- One available height (14" [356 mm]).
- Quick assembly corners for simple and fast assembly.
- 1" [25.4 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket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

ROOFCURB ASSEMBLY





TYPICAL INSTALLATION



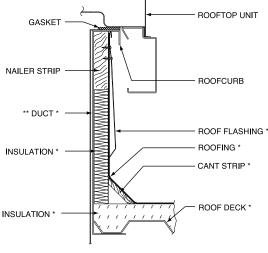
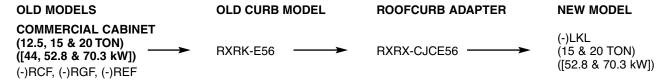


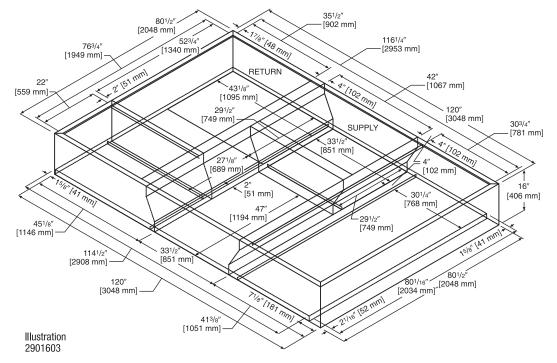
Illustration ST-A1125-14 * BY CONTRACTOR

** 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.



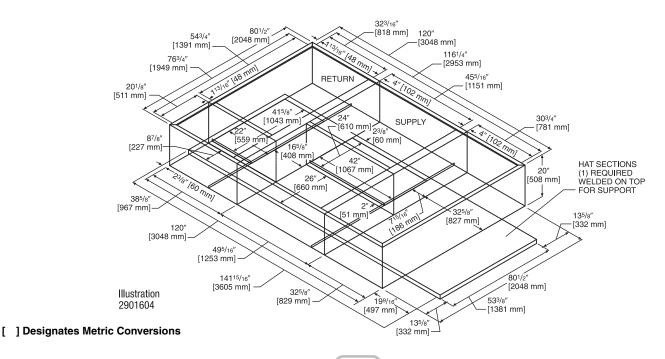
ROOFCURB ADAPTERS





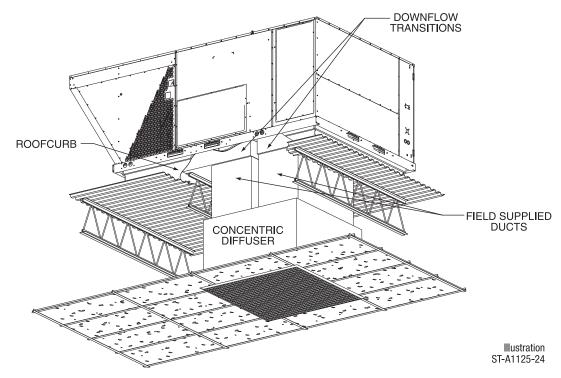
COMMERCIAL CABINET
(15, 20 & 25 TON)
([52.8, 70.3 & 87.9 kW])

→ RXKG-CAF14 → RXRX-CJCF14 → (-)LKL
(15 & 20 TON)
([52.8 & 70.3 kW])





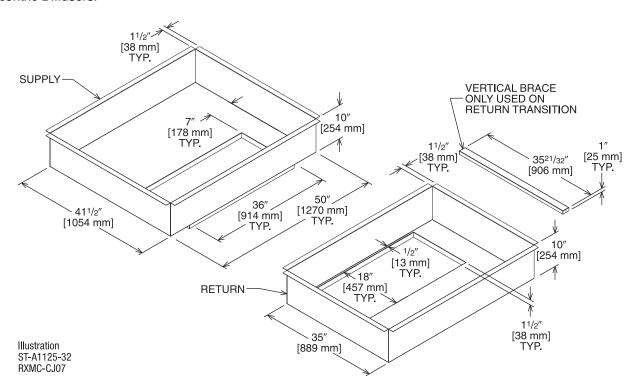
CONCENTRIC DIFFUSER APPLICATION



DOWNFLOW TRANSITION DRAWINGS

RXMC-CJ07 (15 Ton) [52.8 kW]

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

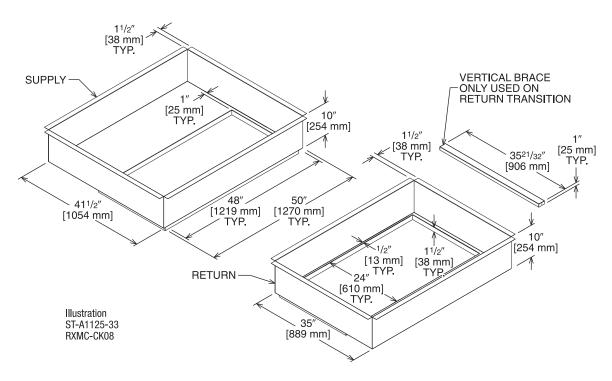




DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CK08 (20 Ton) [70.3 kW]

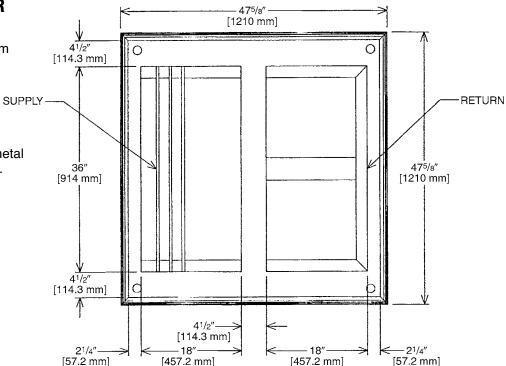
■ Used with RXRN-AD86 Concentric Diffusers.

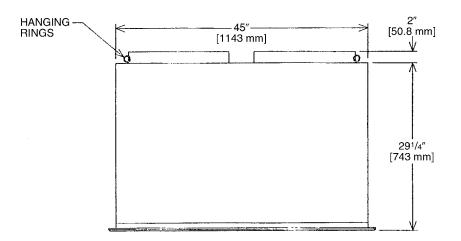


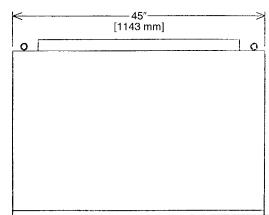


CONCENTRIC DIFFUSER 15 TON [52.8 kW] FLUSH

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







CONCENTRIC DIFFUSER SPECIFICATIONS

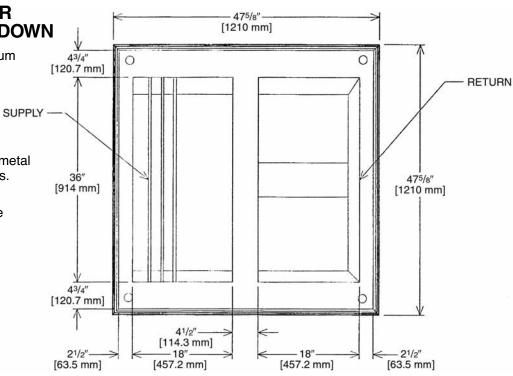
PART Number	CFM [L/s]	STATIC Pressure	THROW Feet	NECK Velocity	JET Velocity
RXRN-AD80	5600 [2643]	0.36	28-37	1000	2082
	5800 [2737]	0.39	29-38	1036	2156
	6000 [2832]	0.42	40-50	1071	2230
	6200 [2926]	0.46	42-51	1107	2308
	6400 [3020]	0.50	43-52	1143	2379
	6600 [3115]	0.54	45-56	1179	2454

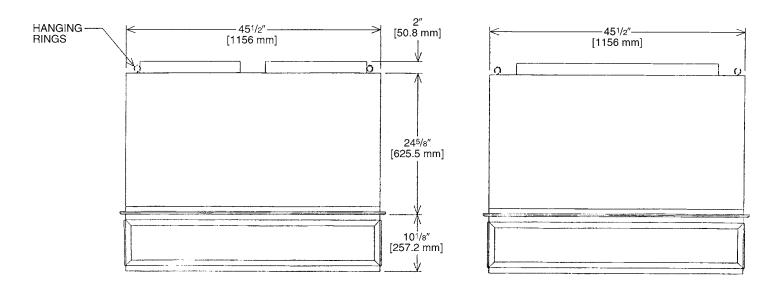
[] Designates Metric Conversions



CONCENTRIC DIFFUSER 15 TON [52.8 kW] STEP DOWN

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





CONCENTRIC DIFFUSER SPECIFICATIONS

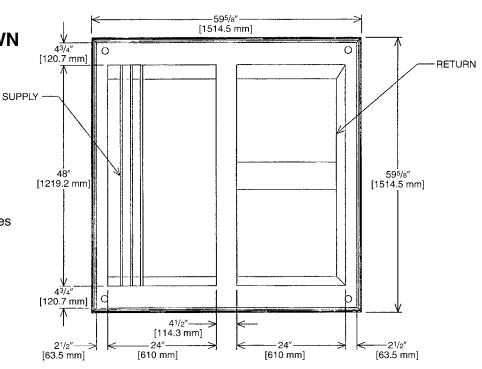
PART Number	CFM [L/s]	STATIC Pressure	THROW Feet	NECK Velocity	JET Velocity
RXRN-AD81	5600 [2643]	0.36	39-49	920	920
	5800 [2737]	0.39	42-51	954	954
	6000 [2832]	0.42	44-54	1022	1022
	6200 [2926]	0.46	45-55	1056	1056
	6400 [3020]	0.50	46-55	1090	1090
	6600 [3115]	0.54	47-56	1124	1124

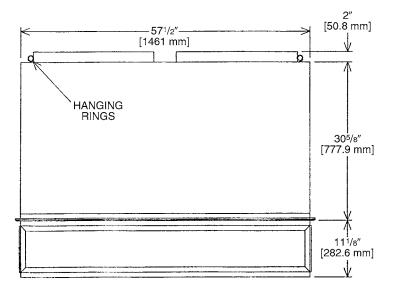
[] Designates Metric Conversions

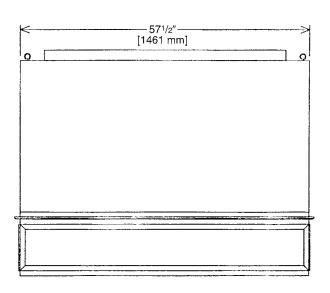


CONCENTRIC DIFFUSER RXRN-AD86 SERIES 20 TON [70.3 kW] STEP DOWN

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







CONCENTRIC DIFFUSER SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS—RLKL-B SERIES



Guide Specifications RLKL-B180 thru B240

Note about this specification: Please feel free to copy this specification directly into your building spec. This specification is written to comply with the 2004 version of the "master format" as published by the Construction Specification Institute www.csinet.org.

ELECTRIC HEAT PACKAGED ROOFTOP

HVAC Guide Specifications
Size Range: 15-20 Nominal Tons

Section Description

23 06 80 Schedules for Decentralized HVAC Equipment

23 06 80.13 Decentralized Unitary HVAC Equipment Schedule

23 06 80.13.A. Rooftop unit schedule

1. Schedule is per the project specification requirements.

23 07 16 HVAC Equipment Insulation

23 07 16.13 Decentralized, Rooftop Units:

- Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 lb density, flexible fiberglass insulation bonded with a phenolic binder, with aluminum foil facing on the air side.
- 2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

23 09 13 Instrumentation and Control Devices for HVAC

23 09 13.23 Sensors and Transmitters:

23 09 13.23.A. Thermostats

- 1. Thermostat must
 - a. energize both "W" and "G" when calling for heat.
 - b. have capability to energize 2 different stages of cooling, and 2 different stages of heating.
 - c. must include capability for occupancy scheduling.

23 09 33 Electric and Electronic Control System for HVAC

23 09 33.13 Decentralized, Rooftop Units:

23 09 33.13.A. General:

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

23 09 33.23.B. Safeties:

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

23 09 93 Sequence of Operations for HVAC Controls

23 09 93.13 Decentralized, Rooftop Units:

23 09 93.13 INSERT SEQUENCE OF OPERATION

23 40 13 Panel Air Filters

23 40 13.13 Decentralized, Rooftop Units:

23 40 13.13.A. Standard filter section shall

- 1. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
- 2. Unit shall use only one filter size. Multiple sizes are not acceptable.
- 3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
- 4. Filters shall be accessible through an access panel as described in the unit cabinet section of the specification (23 81 19.13.H).

23 81 19 Self-Contained Air Conditioners

23 81 19.13 Small-Capacity Self-Contained Air Conditioners

23 81 19.13.A. General

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and electric resistance heat for heating duty.

RUUD

MECHANICAL SPECIFICATIONS—RLKL-B SERIES

- 2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
- 3. Unit shall use environmentally safe, R410A refrigerant.
- 4. Unit shall be installed in accordance with the manufacturer's instructions.
- 5. Unit must be selected and installed in compliance with local, state, and federal codes.

23 81 19.13.B. Quality Assurance

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

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

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

23 81 19.13.E. Project Conditions

1. As specified in the contract.

23 81 19.13.F. Operating Characteristics

- 1. Unit shall be capable of starting and running at $115^{\circ}F$ (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 or 360 at \pm 10% voltage.
- 2. Compressor with standard controls shall be capable of operation down to 40°F (4°C), ambient outdoor temperatures. Accessory low ambient kit is necessary if mechanically cooling at ambient temperatures below 40°F (4°C).
- 3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
- 4. Unit shall be factory configured for vertical supply & return configurations.
- 5. Unit shall be field convertible from vertical to horizontal configuration.

23 81 19.13.G. Electrical Requirements

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

23 81 19.13.H. Unit Cabinet

- 1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a baked enamel finish on all externally exposed surfaces.
- 2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003 inches minimum, gloss (per ASTM D523, 60°F / 16°C): 60, Hardness: H-2H Pencil hardness.
- 3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210 or 360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 3/4-in. thick, 1 lb. density, flexible fiberglass insulation, aluminum foil-faced coated on the air side.
- 4. Base of unit shall have locations for thru-the-base gas and electrical connections (factory installed or field installed), standard.
- 5. Base Rail
 - a. Unit shall have base rails on all sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
 - d. Base rail shall be a minimum of 14 gauge thickness.

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- 6. Condensate pan and connections:
 - a. Shall be a sloped condensate drain pan made of a non-corrosive material.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall use a 1" x 11 1/2 NPT drain connection through the side of the drain pan. Connection shall be made per manufacturer's recommendations.
- 7. Electrical Connections
 - a. All unit power wiring shall enter unit cabinet at a single, factory-prepared, knockout location.
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
- 8. Component access panels (standard)
 - a. Cabinet panels shall be easily removable for servicing.
 - b. Stainless steel metal hinges are standard on all doors.

23 81 19.13.J. Coils

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

23 81 19.13.K. Refrigerant Components

- 1. Refrigerant circuit shall include the following control, safety, and maintenance features:
 - a. Capillary tubes.
 - b. Refrigerant filter drier.
 - c. Service gauge connections on suction and discharge lines.
 - d. Pressure gauge access through an access port in the front and rear panel of the unit.
- 2. Compressors
 - a. Unit shall use one fully hermetic, scroll compressor for each independent refrigeration circuit.
 - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - Compressors shall be internally protected from high discharge temperature conditions. Advanced Scroll Temperature Protection on 240 sizes.
 - d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload
 - e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal and current overload protection.
 - $\ensuremath{\mathsf{g}}.$ Crankcase heaters shall not be required for normal operating range.

23 81 19.13.L. Filter Section

- ${\bf 1.} \ {\bf Filters} \ {\bf access} \ {\bf is} \ {\bf specified} \ {\bf in} \ {\bf the} \ {\bf unit} \ {\bf cabinet} \ {\bf section} \ {\bf of} \ {\bf this} \ {\bf specification}.$
- 2. Filters shall be held in place by sliding filter tray, facilitating easy removal and installation.
- 3. Shall consist of factory-installed, low velocity, throw-away 2-in. thick fiberglass filters.
- 4. Filter face velocity shall not exceed 365 fpm at nominal airflows.
- 5. Filters shall be standard, commercially available sizes.
- 6. Only one size filter per unit is allowed.

23 81 19.13.M. Evaporator Fan and Motor

- 1. Evaporator fan motor:
 - a. Shall have permanently lubricated bearings.
 - b. Shall have inherent automatic-reset thermal overload protection.
 - Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.

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2. Belt-driven Evaporator Fan:

- a. Belt drive shall include an adjustable-pitch motor pulley.
- b. Shall use sealed, permanently lubricated ball-bearing type.
- c. Blower fan shall be double-inlet type with forward-curved blades.
- d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

23 81 19.13.N. Condenser Fans and Motors

1. Condenser fan motors:

- a. Shall be a totally enclosed motor.
- b. Shall use permanently lubricated bearings.
- c. Shall have inherent thermal overload protection with an automatic reset feature.
- d. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.

2. Condenser Fans shall:

- a. Shall be a direct-driven propeller type fan
- b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

23 81 19.13.O. Special Features

1. Integrated Economizers:

- a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
- b. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory installed option.
- c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
- d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
- e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
- f. Shall be capable of introducing up to 100% outdoor air.
- g. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
- h. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
- i. An outdoor single enthalpy sensor shall be provided as standard. Outdoor air enthalpy set point shall be adjustable and shall range from the enthalpy equivalent of 63°F @ 50% rh to 73°F @ 50% rh. Additional sensor options shall be available as accessories.
- j. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 70%, with a range of 0% to 100%.
- k. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper set point.
- I. Economizer controller shall accept a 2-10Vdc CO₂ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
- m. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- n. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.

2. Two-Position Damper

- a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
- b. Damper shall include adjustable damper travel from 25% to 100% (full open).
- c. Damper shall include single or dual blade, gear driven damper and actuator motor.
- d. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
- e. Damper will admit up to 100% outdoor air for applicable rooftop units.
- f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
- g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
- h. Outside air hood shall include aluminum water entrainment filter.

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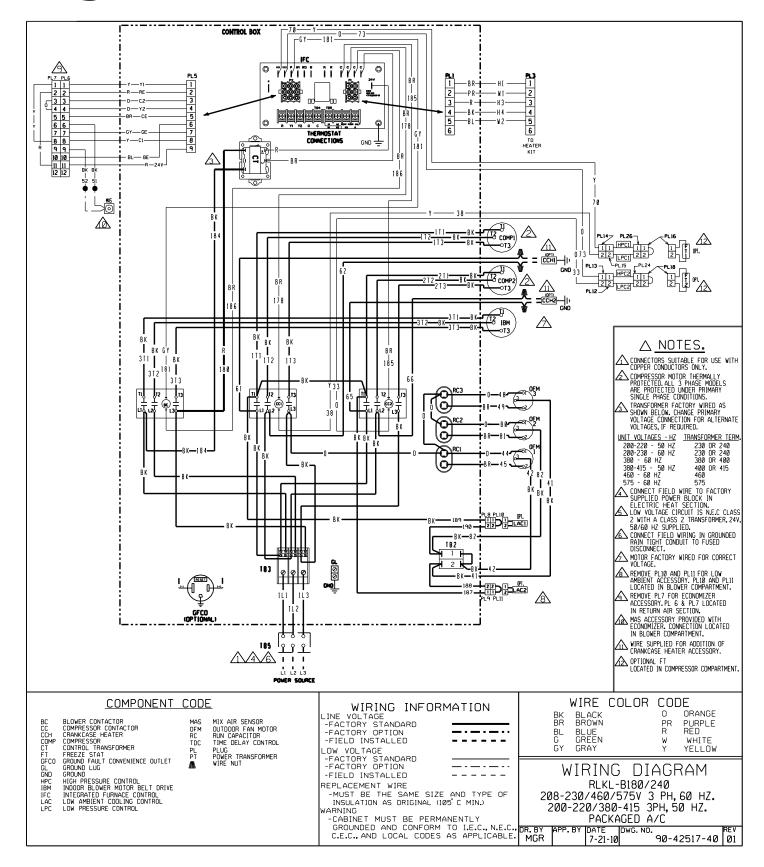


3. Manual damper

- Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year round ventilation.
- 4. Head Pressure Control Package
 - a. Controller shall control coil head pressure by condenser-fan cycling.
- 5. Convenience Outlet:
 - a. Non-Powered convenience outlet.
 - b. Outlet shall be powered from a separate 115-120v power source.
 - c. A transformer shall not be included.
 - d. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
 - e. Outlet shall include 15 amp GFI receptacles.
 - f. Outlet shall be accessible from outside the unit.
- 6. Thru-the-Base Connectors:
 - a. Kits shall provide connectors to permit electrical connections to be brought to the unit through the unit basepan.
- 7. Propeller Power Exhaust:
 - a. Power exhaust shall be used in conjunction with an integrated economizer.
 - b. Independent modules for vertical or horizontal return configurations shall be available.
 - c. Horizontal power exhaust is shall be mounted in return ductwork.
 - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
- 8. Roof Curbs (Vertical):
 - Full perimeter roof curb with exhaust capability providing separate airstreams for energy recovery from the exhaust air without supply air contamination.
 - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- 9. Outdoor Air Enthalpy Sensor:
 - a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
- 10. Return Air Enthalpy Sensor:
 - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
- 11. Indoor Air Quality (CO₂) Sensor:
 - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - b. The IAQ sensor shall be available in wall mount with LED display. The set point shall have adjustment capability.
- 12. Smoke detectors:
 - a. Shall be a Four-Wire Controller and Detector.
 - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - c. Shall use magnet-activated test/reset sensor switches.
 - d. Shall have tool-less connection terminal access.
 - e. Shall have a recessed momentary switch for testing and resetting the detector.
 - f. Controller shall include:
 - i. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
 - ii. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
 - iii. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
 - iv. Capable of direct connection to two individual detector modules.
 - v. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.

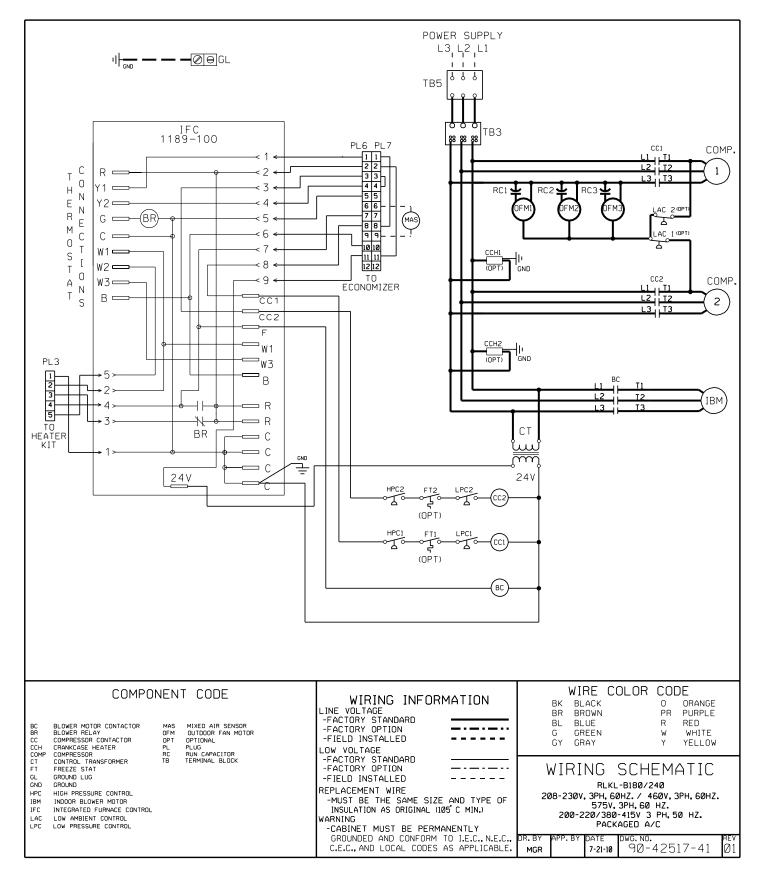


WIRING SCHEMATICS—RLKL-B SERIES



WIRING SCHEMATICS—RLKL-B SERIES







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

GENERAL TERMS OF LIMITED WARRANTY

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

For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

Compressor	Five (5) Years
Electric Resistance Heater Elements .	
Any Other Part	One (1) Year

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. Ruud Heating, Cooling and Water Heating

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