

PACKAGE GAS / ELECTRIC ROOFTOP UNITS

FORM NO. R11-847 REV. 1 Supersedes Form No.R11-847

Featuring Industry Standard R-410A Refrigerant

· R=410A

RKKL-B HIGH EFFICIENCY SERIES NOMINAL SIZES 7.5, 10 & 12.5 TON [26.4, 35.2 & 44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS



Unit shown with optional louvered coil protection.



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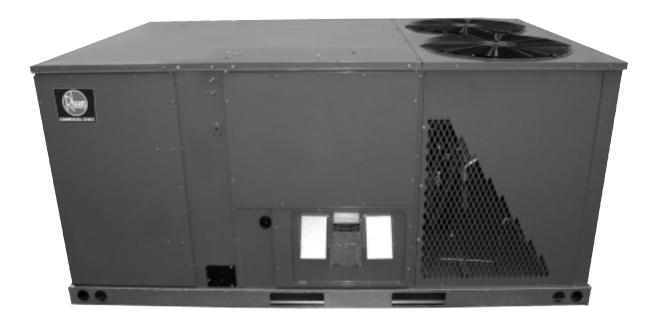


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INTRODUCTION



These quality features are included in the Rheem Package Gas/Electric Unit

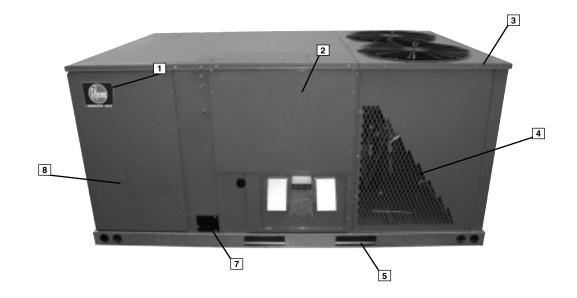


STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- · Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and highpressure protection.
- Single stage compressor on 7.5 and 10 Ton models.
- Two stage compressor on 12.5 ton model.
- · Convertible airflow.
- Fixed restriction refrigerant flow control on 7.5 and 10 ton models.
- TXV on 12.5 ton model.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- · Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintained high efficiencies.
- · Cooling operation up to 125 degree F ambient.
- MicroChannel Outdoor Coils.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Access door with heavy-duty gasketing, and mechanically attached with 5/16" screws.
- Slide Out Indoor fan assembly for added service convenience.
- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized.

- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- · Forkable base rails for easy handling and lifting.
- Single point electrical and gas 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.
- Two stage gas valve, direct spark ignition, and induced draft for efficiency and reliability.
- Tubular heat exchange for long life and induced draft for efficiency and reliability.
- · Solid state furnace control with on board diagnostics.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils (12¹/₂ uses MicroChannel condenser).
- Molded compressor plug.

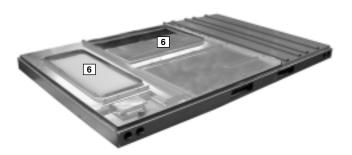




Rheem Package equipment is designed from the ground up with the latest features and benefits required to compete in today's market. The clean design stands alone in the industry and is a testament to the quality, reliability, ease of installation and serviceability that goes into each unit. Outwardly, the large Rheem *Commercial Series*TM label (1) identifies the brand to the customer.

The sheet-metal cabinet (2) uses nothing less than 18-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a one-piece top with a 1/8" drip lip (3), gasket-protected panels and screws. The Rheem hail guard (4) (optional) is its trademark, and sets the standard for coil protection in the industry. Every Rheem package unit uses the toughest finish in the industry, using electro deposition baked-on enamel tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

Anything built to last must start with the right foundation. In this case, the foundation is 14-gauge, commercial-grade, full-perimeter base rails (5), which integrate fork slots and rigging holes to save set-up time on the job site. The base pan is stamped, which forms a 1-1/8" flange around the supply and return opening 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, ANSI 21.47, AHRI 340-360 and other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate (I). Contractors can rest assured that when a Rheem package unit arrives at the job, it is ready to go with a factory charge and quality checks. Each unit also proudly displays the "Made in the USA" designation.

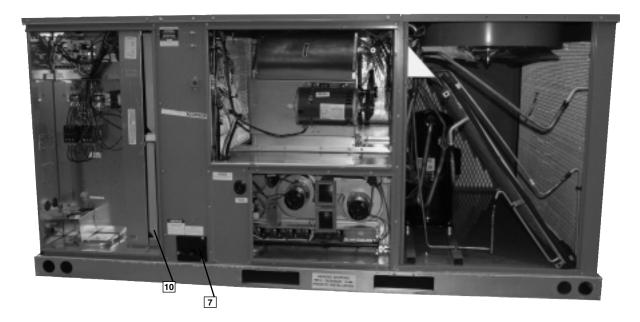
Access is granted with mechanical fasteners. Access to all major compartments is from the front of the unit, including the filter and electrical compartment, blower compartment, furnace section, and outdoor section. Each panel is permanently embossed with the compartment name (control/filter access,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

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

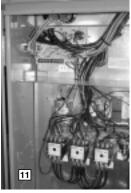
model identification for the life of the product. The production line quality test assurance label is also placed in this location (9). The two-inch throwaway filters (10) are easily removed on a tracked system for easy replacement.







Inside the control box (11), each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and colorcoded to match the wiring diagram. The integrated furnace control, used to control furnace operation, incorporates a flashing LED troubleshooting device. Flash codes are clearly outlined on the unit wiring diagram. The control transformer has a low voltage circuit breaker that trips if a low voltage electrical short occurs. There is a blower contactor and compressor contactor for each compressor.



For added convenience in the field, a factory-installed convenience outlet and non-fused disconnect (12) are available. Low and High voltage can enter either from the side or through the

base. Low-voltage connections are made through the low-voltage 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 high-voltage connection is terminated at the number 1 compressor contactor. The suggested mounting for the fieldinstalled disconnect is on the exterior side of the electrical control box.

To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection (13). With the gauge ports mounted externally, an

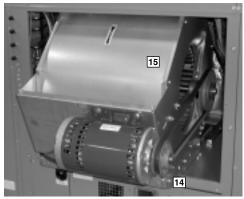




accurate diagnostic of system operation can be performed quickly

The blower compartment is to the right of the gauge ports and can be accessed by mechanical fastener. To allow easy maintenance of the blower assembly, the entire assembly easily slides out by removing two 3/8" screws from the blower retention bracket. The adjustable motor pulley (14) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the belt is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 0 to 6 turns open. Where the demands for the job require high static, Rheem has high-static drives available that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing (15) and blower scroll provide guiet and effi-

cient airflow. The blower sheave is secured by an "H" bushing which firmly secures the pulley to the blower shaft for years of troublefree operation. The "H" bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw,

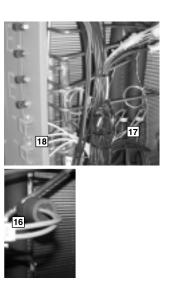


which can score the shaft, creating burrs that make blower-pulley removal difficult.

and easily. Brass caps on the shraeder fitting assure that the gauge parts are leak proof.



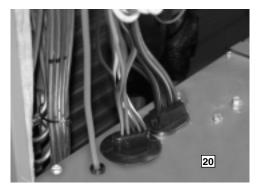
Also inside the blower compartment is the low-ambient control (16), low-pressure switch (17), high-pressure switch (18) and freeze stat (opt.) refrigerant safety device (19). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch will shut off the compressors if pressures in excess of 610 PSIG are detected, this may occur if the outdoor fan motor fails. The low-pressure switch shuts off the compressors if low pressure is detected due to loss of charge. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low air-

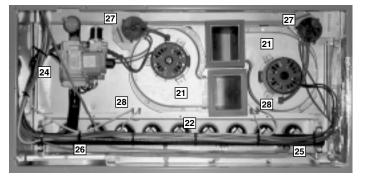


flow. Each factory-installed option is brazed into the appropriate high or low side and wired appropriately. Use of polarized plugs and sharder fittings allow for easy field installation.

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

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



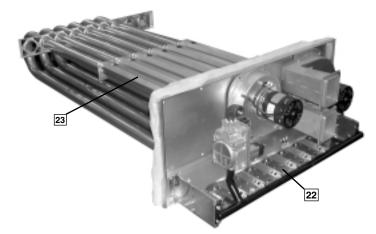


The furnace compartment contains the latest furnace technology on the market. The draft inducers ($\boxed{21}$) draw the flame from the Rheem exclusive in-shot burners ($\boxed{22}$) into the aluminized tubular heat exchanger ($\boxed{23}$) for clean, efficient gas heat. Stainless steel heat exchangers can be factory installed for those applications that have high fresh-air requirements, or applications in corrosive environments. Each furnace is equipment with a two-stage gas valve ($\boxed{24}$), which provides two stages of gas heat input. The first stage operates at 50% of the second stage (full fire). 81% steady state efficiency is maintained on both first and second stage by staging the multiple inducers to optimize the combustion airflow and maintain a near stioceometric burn at each stage.

The direct spark igniter (25) assures reliable ignition in the most adverse conditions. This is coupled with remote flame sense (26) to assure that the flame has carried across the entire length of the burner assembly. Gas supply can be routed from the side or up through the base.

Each furnace has the following safety devices to assure consistent and reliable operation after ignition:

- Pressures switches (27) to assure adequate combustion airflow before ignition.
- Rollout switches (28) to assure no obstruction or cracks in the heat exchanger.
- A limit device that protects the furnace from over-temperature problems.





The compressor compartment houses the heartbeat of the unit. The scroll compressor (29) is known for its long life, and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (30) to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing.

Each unit comes standard with filter dryer 31. The con-

denser fan motor (32) can easily be accessed and maintained through the blower compartment. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

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The outdoor coil uses the latest MicroChannel technology (33) for the most effective method of heat transfer. The outdoor coil is protected by optional louvered panels, which allow unobstructed airflow while protecting the unit from both Mother Nature and vandalism. Each unit is designed for both downflow or horizontal applications (34) for job configuration flexibility. The return air compartment can also contain an economizer (35). Two models exits, one for downflow applications, and one

33

for horizontal applications. Each unit is pre-wired for the economizer to allow quick

plug-in installation. The economizer is also available as a factory-installed option. Power Exhaust is easily fieldinstalled. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field. The economizer control has a minimum position setpoint, an outdoor-air setpoint, a mix-air setpoint, and a CO² setpoint. Barometric relief is standard on all economizers. The power

exhaust is housed in the barometric relief opening and is easily slipped in with a plug-in assembly. The wire harness to the economizer also has accommodations for a smoke detector.

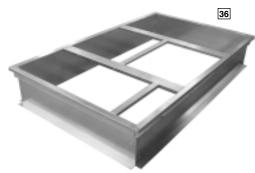
The Rheem roofcurb (36) is made for toolless assembly at the jobsite by engaging a pin into the hinged corners of adjacent



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curb sides, which makes the assembly process quick and easy.



SELECTION PROCEDURE EXAMPLE—RKKL- SERIES



To select an RKKL- Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

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

Example:

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

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

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

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

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

Sensible Capacity = 92,268 BTUH [27.24 kW]

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

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

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

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

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

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

 $\begin{array}{l} \mathsf{RPM} = 796 \\ \mathsf{WATTS} = 1,650 \\ \mathsf{DRIVE} = \mathsf{L} \mbox{ (standard 2 H.P. motor)} \end{array}$

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

BTUH = 1,650 x 3.412 = 5,630

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

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

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

7. CALCULATE UNIT INPUT AND JOB EER.

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

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

8. SELECT UNIT HEATING CAPACITY.

From Physical Data Table read that gas heating output (input rating x efficiency) is:

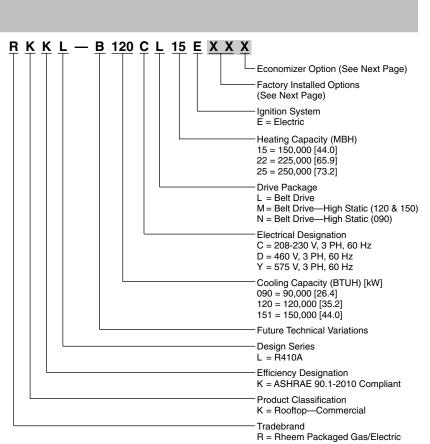
Heating Capacity = 182,300 BTUH [53.43 kW]

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



MODEL IDENTIFICATION—RKKL- SERIES







FACTORY INSTALLED OPTION CODES FOR RKKL 7.5, 10 & 12.5 TON [26.4, 35.2 & 44.0 kW]

Option Code	Hail Guard	Stainless Steel Heat Exchanger	Non-Powered Convenience Outlet/Unfused Service Disconnect	Low Ambient/ Freeze Stat
AD	Х			
AJ		Х		
AH			X	
AP				Х
BF	Х		X	
BG	Х	Х		
BY	Х			Х
JB		Х	X	
CR	Х	Х		Х
DN	Х	Х	X	Х

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

Option Code	No Economizer	Single Enthalpy Economizer w/Barometric Relief	Single Enthalpy Economizer w/Barometric Relief and Smoke Detector
A	Х		
В		X	
С			Х

"x" indicates factory installed option.

Instructions for Factory Installed Option(s) Selection

- **Note:** Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.
- **Step 1.** After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE.

Proceed to Step 2.

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

Examples:

RKKL-B120CL22E	this unit has no factory installed options.
RKKL-B120CL22EBGA	this unit is equipped with <i>hail guard and stainless steel heat exchanger.</i>
RKKL-B120CL22EAHA	.this unit is equipped with a <u>non-powered convenience outlet</u> and <u>service disconnect.</u>
RKKL-B120CL22EAHB	this unit is equipped as above <i>and</i> includes an <i>Economizer</i> . with single enthalpy sensor and with barometric relief.
RKKL-B120CL22EAAB	this unit is equipped with an <i>Economizer with single enthalpy sensor and Barometric Relief.</i>



Model RKKL- Series	B090CL15E	B090CL22E	B090CM15E	B090CM22E
Cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]
AHRI Net Cooling Capacity Btu [kW]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]
Net Latent Capacity Btu [kW]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]
IEER ³	12.1	12.1	12.1	12.1
Net System Power kW	7.5	7.5	7.5	7.5
eating Performance (Gas) ⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	75.000/150.000 [21.97/43.95]	112,500/225,000 [32.96/65.92]	75.000/150.000 [21.97/43.95]	112.500/225.000 [32.96/65.
Heating Output Btu [kW] (1st Stage / 2nd Stage)	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4]	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4
Temperature Rise Range °F [°C]	25-55 [13.9-30.6] /	40-70 [22.2-38.9] /	25-55 [13.9-30.6] /	40-70 [22.2-38.9] /
(1st Stage / 2nd Stage)	25-55 [13.9-30.6]	40-70 [22.2-38.9]	25-55 [13.9-30.6]	40-70 [22.2-38.9]
Steady State Efficiency (%)	81	81	81	81
No. Burners	6	9	6	9
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.75 [19]	0.5 [12.7]	0.75 [19]
ompressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
idoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4500 [2124]	4500 [2124]	4500 [2124]	4500 [2124]
No. Motors/HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP
Motor RPM	1075	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Drive Type/No. Speeds				
No. Motors	1	1	1	1
Motor HP	2	2	2	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56 Dianaaahla	56 Dispessible	56 Dianaaabla	56 Dianaaabla
ilter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457
lefrigerant Charge Oz. [g]	117.6 [3334]	117.6 [3334]	117.6 [3334]	117.6 [3334]
Veights				
Net Weight Ibs. [kg]	882 [400]	918 [416]	882 [400]	918 [416]
Ship Weight Ibs. [kg]	919 [417]	955 [433]	919 [417]	955 [433]

See Page 20 for Notes.



B090CN15E	B090CN22E	B090DL15E	B090DL22E
			CONTINUED
87,000 [25.49]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]
11.2/NA	11.2/NA	11.2/NA	11.2/NA
2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]
84,000 [24.61]	84,000 [24.61]		84,000 [24.61]
			64,800 [18.99]
			19,200 [5.63]
12.1	12.1	12.1	12.1
			7.5
75 000/150 000 [21 97/43 95]	112 500/225 000 [32 96/65 92]	75 000/150 000 [21 97/43 95]	112 500/225 000 [32 96/65 9
			91,125/182,250 [26.7/53.4
			40-70 [22.2-38.9] /
25-55 [13.9-30.6]	40-70 [22.2-38.9]	25-55 [13.9-30.6]	40-70 [22.2-38.9]
81	81	81	81
6	9	6	9
2	2	2	2
0.5 [12.7]	0.75 [19]	0.5 [12.7]	0.75 [19]
1/Scroll	1/Scroll	1/Scroll	1/Scroll
			88
			Louvered
			MicroChannel
			1 [25.4]
			13.5 [1.25]
			1 / 23 [9]
			Louvered
			Rifled
			0.375 [9.5]
			13.5 [1.25]
			2 / 18 [7]
			Orifices
			1/1 [25.4]
		•	Propeller
			1/24 [609.6]
			Direct/1
			4500 [2124]
			1 at 1/2 HP
			1075
•		•	FC Centrifugal
· · ·			1/15x15 [381x381]
Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
1	1	1	1
3	3	2	2
1725	1725	1725	1725
56	56	56	56
Disposable	Disposable	Disposable	Disposable
Yes	Yes	Yes	Yes
(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
117.6 [3334]	117.6 [3334]	117.6 [3334]	117.6 [3334]
890 [404]	926 [420]	882 [400]	918 [416]
	87,000 [25.49] 11.2/NA 2800/2925 [1321/1380] 84,000 [24.61] 64,800 [18.99] 19,200 [5.63] 19,200 [5.63] 12.1 7.5 75,000/150,000 [21.97/43.95] 60,750/121,500 [17.8/35.6] 25-55 [13.9-30.6] / 25-55 [13.9-30.6] / 26-2 1/Scroll 1/Scr	87,000 [25.49] 87,000 [25.49] 11.2/NA 11.2/NA 2800/2925 [1321/1380] 2800/2925 [1321/1380] 84,000 [24.61] 84,000 [24.61] 64,800 [18.99] 64,800 [18.99] 19,200 [5.63] 19,200 [5.63] 12.1 12.1 7.5 7.5 75,000/150,000 [21.97/43.95] 112,500/225,000 [32.96/65.92] 60,750/121,500 [17.8/35.6] 91,125/182,250 [26.7/53.4] 25-55 [13.9-30.6] 40-70 [22.2-38.9] 25-55 [13.9-30.6] 40-70 [22.2-38.9] 25-55 [13.9-30.6] 40-70 [22.2-38.9] 2 2 81 81 6 9 2 2 0.5 [12.7] 0.75 [19] 1/Scroll 1/Scroll 88 88 Louvered Louvered MicroChannel MicroChannel 1 [25.4] 1 [25.4] 1 1 [25.4] 1 [25.4] 1 1 23 [9] 1 / 23 [9] Louvered Rifled 0.375 [9.5] 0.375 [9.5]	87,000 [25.49] 87,000 [25.49] 87,000 [25.49] 11.2/NA 11.2/NA 11.2/NA 2800/2925 [1321/1380] 2800/2925 [1321/1380] 2800/2925 [1321/1380] 84,000 [24.61] 84,000 [24.61] 84,000 [24.61] 64,800 [18.99] 64,800 [18.99] 64,800 [18.99] 19,200 [5.63] 19,200 [5.63] 19,200 [5.63] 12.1 12.1 12.1 7.5 7.5 7.5 75,000/150,000 [21.97/43.95] 112.50/225.000 [32.96/65.92] 75.00/150,000 [21.97/43.95] 80,750/121,500 [17.8/35.6] 91,125/182.230 [26.7/53.4] 60,750/121.500 [17.8/35.6] 25-55 [13.9-30.6] 40-70 [22.2-38.9] 25-55 [13.9-30.6] 81 81 81 81 6 9 6 2 0.5 [12.7] 0.75 [19] 0.5 [12.7] 1/Scroll 1/Scroll 1/Scroll 1/Scroll 1 125.4] 125.4] 125.4] 13.5 [1.25] 13.5 [1.25] 13.5 [1.25] 13.5 [1.25] 13.5 [1.25] 13.5 [1.25] <

See Page 20 for Notes.



Model RKKL- Series	B090DM15E	B090DM22E	B090DN15E	B090DN22E
Cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]
AHRI Net Cooling Capacity Btu [kW]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]
Net Latent Capacity Btu [kW]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]
IEER ³	12.1	12.1	12.1	12.1
Net System Power kW	7.5	7.5	7.5	7.5
leating Performance (Gas) ⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	75,000/150,000 [21.97/43.95]	112,500/225,000 [32.96/65.92]	75,000/150,000 [21.97/43.95]	112,500/225,000 [32.96/65.9
Heating Output Btu [kW] (1st Stage / 2nd Stage)	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4]	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4]
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	40-70 [22.2-38.9] / 40-70 [22.2-38.9]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	40-70 [22.2-38.9] / 40-70 [22.2-38.9]
Steady State Efficiency (%)	81	81	81	81
No. Burners	6	9	6	9
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.75 [19]	0.5 [12.7]	0.75 [19]
Compressor				[.]
No./Туре	1/Scroll	1/Scroll	1/Scroll	1/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
ndoor 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 sg. ft. [sg. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Jutdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4500 [2124]	4500 [2124]	4500 [2124]	4500 [2124]
No. Motors/HP	1 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
ndoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	2	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
ilter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
Refrigerant Charge Oz. [g]	117.6 [3334]	117.6 [3334]	117.6 [3334]	117.6 [3334]
Veights				
Net Weight Ibs. [kg]	882 [400]	918 [416]	890 [404]	926 [420]
Ship Weight Ibs. [kg]	919 [417]	955 [433]	927 [420]	963 [437]

See Page 20 for Notes.



Model RKKL- Series	B090YL22E	B090YM22E	B090YN22E
Cooling Performance ¹			
Gross Cooling Capacity Btu [kW]	87,000 [25.49]	87,000 [25.49]	87,000 [25.49]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2800/2925 [1321/1380]	2800/2925 [1321/1380]	2800/2925 [1321/1380]
AHRI Net Cooling Capacity Btu [kW]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
Net Sensible Capacity Btu [kW]	64,800 [18.99]	64,800 [18.99]	64,800 [18.99]
Vet Latent Capacity Btu [kW]	19,200 [5.63]	19,200 [5.63]	19,200 [5.63]
IEER ³	12.1	12.1	12.1
Net System Power kW	7.5	7.5	7.5
ating Performance (Gas) ⁴			
leating Input Btu [kW] (1st Stage / 2nd Stage)	112 500/225 000 [32 96/65 92]	112 500/225 000 [32 96/65 92]	112,500/225,000 [32.96/65.92]
leating Output Btu [kW] (1st Stage / 2nd Stage)	91,125/182,250 [26.7/53.4]	91,125/182,250 [26.7/53.4]	91,125/182,250 [26.7/53.4]
emperature Rise Range °F [°C] 1st Stage / 2nd Stage)	40-70 [22.2-38.9] / 40-70 [22.2-38.9]	40-70 [22.2-38.9] / 40-70 [22.2-38.9]	40-70 [22.2-38.9] / 40-70 [22.2-38.9]
teady State Efficiency (%)	81	81	81
o. Burners	9	9	9
o. Stages	2	2	2
as Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.75 [19]
as connection Pipe Size in. [mm] Ipressor	0.73 [18]	0.73 [18]	0.75 [18]
•	1/Caroll	1/Coroll	1/2010
o./Type door Sound Rating (dB) ⁵	1/Scroll 88	1/Scroll 88	1/Scroll 88
• • •			
door Coil—Fin Type	Louvered	Louvered	Louvered
be Type	MicroChannel	MicroChannel	MicroChannel
croChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]
ce Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
ws / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
or Coil—Fin Type	Louvered	Louvered	Louvered
be Type	Rifled	Rifled	Rifled
be Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
ce Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
ws / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
frigerant Control	Orifices	Orifices	Orifices
ain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
oor Fan—Type	Propeller	Propeller	Propeller
. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
ive Type/No. Speeds	Direct/1	Direct/1	Direct/1
FM [L/s]	4500 [2124]	4500 [2124]	4500 [2124]
o. Motors/HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP
otor RPM	1075	1075	1075
oor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
lo. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
rive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable
o. Motors	1	1	1
otor HP	2	2	3
otor RPM	1725	1725	1725
otor Frame Size	56	56	56
r—Type	Disposable	Disposable	Disposable
Irnished	Yes	Yes	Yes
Io.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
rigerant Charge Oz. [g]	117.6 [3334]	117.6 [3334]	117.6 [3334]
ghts	1	1	L
et Weight Ibs. [kg]	918 [416]	918 [416]	926 [420]
hip Weight Ibs. [kg]	955 [433]	955 [433]	963 [437]
e Page 20 for Notes.			[]

See Page 20 for Notes.



Model RKKL- Series	B120CL15E	B120CL22E	B120CM15E	B120CM22E
cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	123,000 [36.04]	123,000 [36.04]	123,000 [36.04]	123,000 [36.04]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	4000/3600 [1888/1699]
AHRI Net Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
Net Sensible Capacity Btu [kW]	87,200 [25.55]	87,200 [25.55]	87,200 [25.55]	87,200 [25.55]
Net Latent Capacity Btu [kW]	31,800 [9.32]	31,800 [9.32]	31,800 [9.32]	31,800 [9.32]
IEER ³	12.2	12.2	12.2	12.2
Net System Power kW	10.62	10.62	10.62	10.62
eating Performance (Gas) ⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	75,000/150,000 [21.97/43.95]	112,500/225,000 [32.96/65.92]	75,000/150,000 [21.97/43.95]	112,500/225,000 [32.96/65.
Heating Output Btu [kW] (1st Stage / 2nd Stage)	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4]	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4
Temperature Rise Range °F [°C]	15-45 [8.3-25] /	25-55 [13.9-30.6] /	15-45 [8.3-25] /	25-55 [13.9-30.6] /
(1st Stage / 2nd Stage)	15-45 [8.3-25]	25-55 [13.9-30.6]	15-45 [8.3-25]	25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	6	9	6	9
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.75 [19]	0.5 [12.7]	0.75 [19]
ompressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
idoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8400 [3964]	8400 [3964]	8400 [3964]	8400 [3964]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	2	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
liter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457
lefrigerant Charge Oz. [g]	204.8 [5806]	204.8 [5806]	204.8 [5806]	204.8 [5806]
Veights	004 [440]	1000 [460]	000 [460]	1000 [400]
Net Weight Ibs. [kg]	984 [446]	1020 [463]	992 [450]	1028 [466]
Ship Weight Ibs. [kg]	1021 [463]	1057 [479]	1029 [467]	1065 [483]

See Page 20 for Notes.



Model RKKL- Series	B120DL15E	B120DL22E	B120DM15E	B120DM22E
Cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	123,000 [36.04]	123,000 [36.04]	123,000 [36.04]	123,000 [36.04]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	4000/3600 [1888/1699]
AHRI Net Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
Net Sensible Capacity Btu [kW]	87,200 [25.55]	87,200 [25.55]	87,200 [25.55]	87,200 [25.55]
Net Latent Capacity Btu [kW]	31,800 [9.32]	31,800 [9.32]	31,800 [9.32]	31,800 [9.32]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	10.62	10.62	10.62	10.62
eating Performance (Gas) ⁴	10102	10102		
Heating Input Btu [kW] (1st Stage / 2nd Stage)	75 000/150 000 [21 97/43 95]	112,500/225,000 [32.96/65.92]	75 000/150 000 [21 97/43 95]	112 500/225 000 [32 96/65
Heating Output Btu [kW] (1st Stage / 2nd Stage)	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4]	60,750/121,500 [17.8/35.6]	91,125/182,250 [26.7/53.4
Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] / 15-45 [8.3-25]	25-55 [13.9-30.6] / 25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	6	9	6	9
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.75 [19]	0.5 [12.7]	0.75 [19]
ompressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
itdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
door Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	Orifices	Orifices	Orifices	Orifices
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8400 [3964]	8400 [3964]	8400 [3964]	8400 [3964]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/3 HP
Motor RPM	1075	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
			3	3
Motor HP	2	2		
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56 Dispessible	56 Dianaaabla	56 Dianaachla	56
lter—Type Sumiched	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457
efrigerant Charge Oz. [g]	204.8 [5806]	204.8 [5806]	204.8 [5806]	204.8 [5806]
/eights	~~~~~	1000 110		
Net Weight Ibs. [kg]	984 [446]	1020 [463]	992 [450]	1028 [466]
Ship Weight Ibs. [kg]	1021 [463]	1057 [479]	1029 [467]	1065 [483]

See Page 20 for Notes.



Model RKKL- Series	B120YL22E	B120YM22E	B151CL15E	B151CL25E
Cooling Performance ¹				
Gross Cooling Capacity Btu [kW]	123,000 [36.04]	123,000 [36.04]	156,000 [45.71]	156,000 [45.71]
EER/SEER ²	11.2/NA	11.2/NA	11.1/NA	11.1/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/3600 [1888/1699]	4000/3600 [1888/1699]	5000/4225 [2360/1994]	5000/4225 [2360/1994]
AHRI Net Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	150,000 [43.95]	150,000 [43.95]
Net Sensible Capacity Btu [kW]	87,200 [25.55]	87,200 [25.55]	106,600 [31.23]	106,600 [31.23]
Net Latent Capacity Btu [kW]	31,800 [9.32]	31,800 [9.32]	43,400 [12.72]	43,400 [12.72]
IEER3	12.2	12.2	10.8	10.8
Net System Power kW	10.62	10.62	13.54	13.54
eating Performance (Gas) ⁴	10102		10101	
Heating Input Btu [kW] (1st Stage / 2nd Stage)	112 500/225 000 [32 96/65 92]	112,500/225,000 [32.96/65.92]	75 000/150 000 [21 97/43 95]	126 000/252 000 [36 92/73 8
Heating Output Btu [kW] (1st Stage / 2nd Stage)	91,125/182,250 [26.7/53.4]	91,125/182,250 [26.7/53.4]		102,000/204,000 [29.89/59.7
Temperature Rise Range °F [°C]	25-55 [13.9-30.6] /	25-55 [13.9-30.6] /	15-45 [8.3-25] /	25-55 [13.9-30.6] /
(1st Stage / 2nd Stage)	25-55 [13.9-30.6]	25-55 [13.9-30.6]	15-45 [8.3-25]	25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	9	9	6	9
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19]	0.75 [19]	0.5 [12.7]	0.75 [19]
ompressor				
No./Type	1/Scroll	1/Scroll	2/Scroll	2/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	2 / 23 [9]	2 / 23 [9]
idoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	Orifices	Orifices	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8400 [3964]	8400 [3964]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/3 HP	2 at 1/3 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
	56	56	56	56
Motor Frame Size				
ilter—Type Furnished	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
lefrigerant Charge Oz. [g]	204.8 [5806]	204.8 [5806]	147.2/152 [4173/4309]	147.2/152 [4173/4309]
Veights	1000 [100]	1000 [100]	1000 [550]	1000 [574]
Net Weight Ibs. [kg]	1020 [463]	1028 [466]	1230 [558]	1266 [574]
Ship Weight Ibs. [kg]	1057 [479]	1065 [483]	1267 [575]	1303 [591]

See Page 20 for Notes.



NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKL- Series	B151CM15E	B151CM25E	B151DL15E	B151DL25E
Cooling Performance ¹				CONTINUED>
Gross Cooling Capacity Btu [kW]	156,000 [45.71]	156,000 [45.71]	156,000 [45.71]	156,000 [45.71]
EER/SEER ²	11.1/NA	11.1/NA	11.1/NA	11.1/NA
Nominal CFM/AHRI Rated CFM [L/s]	5000/4225 [2360/1994]	5000/4225 [2360/1994]	5000/4225 [2360/1994]	5000/4225 [2360/1994]
AHRI Net Cooling Capacity Btu [kW]	150,000 [43.95]	150,000 [43.95]	150,000 [43.95]	150,000 [43.95]
Net Sensible Capacity Btu [kW]	106,600 [31.23]	106,600 [31.23]	106,600 [31.23]	106,600 [31.23]
Net Latent Capacity Btu [kW]	43,400 [12.72]	43,400 [12.72]	43,400 [12.72]	43,400 [12.72]
IEER ³	10.8	10.8	10.8	10.8
Net System Power kW	13.54	13.54	13.54	13.54
eating Performance (Gas) ⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	75,000/150,000 [21.97/43.95]	126,000/252,000 [36.92/73.84]	75,000/150,000 [21.97/43.95]	126,000/252,000 [36.92/73.8
Heating Output Btu [kW] (1st Stage / 2nd Stage)		102,000/204,000 [29.89/59.77]		-
Temperature Rise Range °F [°C]	15-45 [8.3-25] /	25-55 [13.9-30.6] / 25-55 [13.9-30.6]	15-45 [8.3-25] /	25-55 [13.9-30.6] /
(1st Stage / 2nd Stage)	15-45 [8.3-25]		15-45 [8.3-25]	25-55 [13.9-30.6]
Steady State Efficiency (%)	81 6	81 9	81 6	81 9
No. Burners		-	-	
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.75 [19]	0.5 [12.7]	0.75 [19]
ompressor No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]
idoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors			1	
	1	1		1
Motor HP	5	5	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	56 Dianaaabla	56
liter—Type Furnished	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
efrigerant Charge Oz. [g]	147.2/152 [4173/4309]	147.2/152 [4173/4309]	147.2/152 [4173/4309]	147.2/152 [4173/4309]
/eights	1000 [500]	1074 [574]	1000 [550]	1000 [574]
Net Weight Ibs. [kg]	1238 [562]	1274 [574]	1230 [558]	1266 [574]
Ship Weight Ibs. [kg]	1275 [578]	1311 [595]	1267 [575]	1303 [591]

See Page 20 for Notes.



NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKL- Series	B151DM15E	B151DM25E	B151YL25E	B151YM25E
Cooling Performance ¹				
Gross Cooling Capacity Btu [kW]	156,000 [45.71]	156,000 [45.71]	156,000 [45.71]	156,000 [45.71]
EER/SEER ²	11.1/NA	11.1/NA	11.1/NA	11.1/NA
Nominal CFM/AHRI Rated CFM [L/s]	5000/4225 [2360/1994]	5000/4225 [2360/1994]	5000/4225 [2360/1994]	5000/4225 [2360/1994]
AHRI Net Cooling Capacity Btu [kW]	150,000 [43.95]	150,000 [43.95]	150,000 [43.95]	150,000 [43.95]
Net Sensible Capacity Btu [kW]	106,600 [31.23]	106,600 [31.23]	106,600 [31.23]	106,600 [31.23]
Net Latent Capacity Btu [kW]	43,400 [12.72]	43,400 [12.72]	43,400 [12.72]	43,400 [12.72]
IEER3	10.8	10.8	10.8	10.8
Net System Power kW	13.54	13.54	13.54	13.54
eating Performance (Gas) ⁴				
Heating Input Btu [kW] (1st Stage / 2nd Stage)	75 000/150 000 [21 97/43 95]	126,000/252,000 [36.92/73.84]	126 000/252 000 [36 92/73 84]	126 000/252 000 [36 92/73 8
Heating Output Btu [kW] (1st Stage / 2nd Stage)		102,000/204,000 [29.89/59.77]		-
Temperature Rise Range °F [°C]	15-45 [8.3-25] /	25-55 [13.9-30.6] /	25-55 [13.9-30.6] /	25-55 [13.9-30.6] /
(1st Stage / 2nd Stage)	15-45 [8.3-25]	25-55 [13.9-30.6]	25-55 [13.9-30.6]	25-55 [13.9-30.6]
Steady State Efficiency (%)	81	81	81	81
No. Burners	6	9	9	9
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.75 [19]	0.75 [19]	0.75 [19]
ompressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
utdoor Sound Rating (dB) ⁵	88	88	88	88
utdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]	27 [2.51]
Rows / FPI [FPcm]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]	2 / 23 [9]
idoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows / FPI [FPcm]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]	4 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
•				
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
utdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075	1075	1075
door Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	56	184
ilter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm x mm x mm]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]	(6)2x18x18 [51x457x457]
tefrigerant Charge Oz. [g]	147.2/152 [4173/4309]	147.2/152 [4173/4309]	147.2/152 [4173/4309]	147.2/152 [4173/4309]
Veights				
Net Weight Ibs. [kg]	1238 [562]	1274 [574]	1266 [574]	1274 [574]

See Page 20 for Notes.

GENERAL DATA—RKKL- SERIES



NOTES:

- Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
- 2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
- 3. IEER is rated in accordance with AHRI Standard 340/360.
- 4. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
- 5. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.



GROSS SYSTEMS PERFORMANCE DATA—B090

				EN	ITERING INDO	DR 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]	3600 [1699]	2925 [1380]	2400 [1133]	3600 [1699]	2925 [1380]	2400 [1133]	3600 [1699]	2925 [1380]	2400 [1133]
		DR ①	.05	.09	.11	.05	.09	.11	.05	.09	.11
0	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power		102.1 [29.9] 62.0 [18.2] 5.5	98.7 [28.9] 53.7 [15.7] 5.5	100.6 [29.5] 84.3 [24.7] 5.6	96.5 [28.3] 72.0 [21.1] 5.4	93.4 [27.4] 63.1 [18.5] 5.4	97.3 [28.5] 94.8 [27.8] 5.4	93.4 [27.4] 81.7 [24.0] 5.3	90.4 [26.5] 72.1 [21.1] 5.2
U T D O	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power		100.2 [29.4] 61.3 [18.0] 5.8	96.9 [28.4] 53.1 [15.6] 5.7	98.6 [28.9] 83.3 [24.4] 5.8	94.6 [27.7] 71.2 [20.9] 5.7	91.6 [26.8] 62.5 [18.3] 5.6	95.3 [27.9] 93.9 [27.5] 5.7	91.5 [26.8] 81.0 [23.7] 5.6	88.5 [25.9] 71.5 [21.0] 5.5
O R D	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power		97.9 [28.7] 60.3 [17.7] 6.1	94.7 [27.8] 52.3 [15.3] 6.0	96.3 [28.2] 82.2 [24.1] 6.2	92.4 [27.1] 70.3 [20.6] 6.0	89.4 [26.2] 61.7 [18.1] 5.9	93.0 [27.3] 92.8 [27.2] 6.0	89.2 [26.1] 80.0 [23.5] 5.9	86.3 [25.3] 70.6 [20.7] 5.8
R Y B U	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power		95.3 [27.9] 59.1 [17.3] 6.5	92.2 [27.0] 51.3 [15.0] 6.4	93.5 [27.4] 80.6 [23.6] 6.5	89.8 [26.3] 69.1 [20.3] 6.3	86.8 [25.4] 60.6 [17.8] 6.2	90.3 [26.5] 90.3 [26.5] 6.4	86.6 [25.4] 78.7 [23.1] 6.2	83.8 [24.6] 69.5 [20.4] 6.1
L B T	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power		92.3 [27.1] 57.6 [16.9] 6.8	89.3 [26.2] 50.0 [14.7] 6.7	90.5 [26.5] 79.0 [23.2] 6.8	86.8 [25.4] 67.6 [19.8] 6.7	84.0 [24.6] 59.4 [17.4] 6.6	87.2 [25.6] 87.2 [25.6] 6.7	83.7 [24.5] 77.3 [22.7] 6.6	80.9 [23.7] 68.3 [20.0] 6.5
E M P E	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power		89.0 [26.1] 55.9 [16.4] 7.1	86.1 [25.2] 48.6 [14.3] 7.0	87.0 [25.5] 76.9 [22.5] 7.2	83.5 [24.5] 65.9 [19.3] 7.0	80.8 [23.7] 57.9 [17.0] 6.9	83.7 [24.5] 83.7 [24.5] 7.1	80.3 [23.5] 75.5 [22.1] 6.9	77.7 [22.8] 66.8 [19.6] 6.8
R A T U	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	88.9 [26.1] 63.7 [18.7] 7.6	85.3 [25.0] 53.9 [15.8] 7.5	82.5 [24.2] 46.8 [13.7] 7.4	83.2 [24.4] 74.5 [21.8] 7.5	79.8 [23.4] 63.9 [18.7] 7.4	77.2 [22.6] 56.2 [16.5] 7.3	79.9 [23.4] 79.9 [23.4] 7.4	76.7 [22.5] 73.6 [21.6] 7.3	74.2 [21.7] 65.1 [19.1] 7.2
R E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	84.7 [24.8] 61.0 [17.9] 8.0	81.3 [23.8] 51.7 [15.2] 7.9	78.7 [23.1] 45.0 [13.2] 7.7	79.0 [23.2] 71.9 [21.1] 7.9	75.8 [22.2] 61.7 [18.1] 7.8	73.3 [21.5] 54.2 [15.9] 7.6	75.7 [22.2] 75.7 [22.2] 7.8	72.6 [21.3] 71.3 [20.9] 7.7	70.3 [20.6] 63.2 [18.5] 7.5
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	80.1 [23.5] 58.0 [17.0] 8.4	76.9 [22.5] 49.2 [14.4] 8.3	74.4 [21.8] 42.8 [12.6] 8.1	74.4 [21.8] 68.9 [20.2] 8.3	71.4 [20.9] 59.2 [17.4] 8.2	69.1 [20.3] 52.1 [15.3] 8.0	71.1 [20.8] 71.1 [20.8] 8.2	68.3 [20.0] 68.3 [20.0] 8.1	66.0 [19.3] 61.1 [17.9] 7.9

GROSS SYSTEMS PERFORMANCE DATA—B120

				EN	ITERING INDOC	DR AIR @ 80°F	[26.7°C] dbE (1)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		-M [L/s]	4800 [2265]	3600 [1699]	3200 [1510]	4800 [2265]	3600 [1699]	3200 [1510]	4800 [2265]	3600 [1699]	3200 [1510]
		DR ①	.0	.04	.07	.0	.04	.07	.0	.04	.07
0	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	153.4 [45.0] 105.0 [30.8] 7.8	144.6 [42.4] 82.1 [24.1] 7.6	141.7 [41.5] 75.1 [22.0] 7.5	146.5 [42.9] 123.1 [36.1] 7.6	138.2 [40.5] 98.2 [28.8] 7.4	135.4 [39.7] 90.5 [26.5] 7.3	141.4 [41.4] 140.1 [41.1] 7.4	133.3 [39.1] 113.1 [33.2] 7.2	130.6 [38.3] 104.7 [30.7] 7.2
U T D O	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	150.0 [44.0] 103.2 [30.3] 8.2	141.5 [41.5] 80.8 [23.7] 8.0	138.6 [40.6] 73.9 [21.7] 7.9	143.2 [42.0] 121.3 [35.6] 8.0	135.0 [39.6] 96.8 [28.4] 7.8	132.3 [38.8] 89.2 [26.2] 7.7	138.0 [40.4] 138.0 [40.5] 7.8	130.2 [38.2] 111.8 [32.8] 7.6	127.5 [37.4] 103.4 [30.3] 7.5
Ö R D	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	146.3 [42.9] 101.1 [29.6] 8.6	138.0 [40.4] 79.2 [23.2] 8.3	135.2 [39.6] 72.4 [21.2] 8.3	139.5 [40.9] 119.3 [35.0] 8.4	131.5 [38.5] 95.2 [27.9] 8.2	128.8 [37.7] 87.7 [25.7] 8.1	134.3 [39.4] 134.3 [39.4] 8.2	126.6 [37.1] 110.2 [32.3] 8.0	124.1 [36.4] 102.1 [29.9] 7.9
R Y B	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	142.2 [41.7] 98.9 [29.0] 9.0	134.1 [39.3] 77.5 [22.7] 8.7	131.4 [38.5] 70.9 [20.8] 8.7	135.4 [39.7] 117.1 [34.3] 8.8	127.6 [37.4] 93.5 [27.4] 8.6	125.0 [36.6] 86.2 [25.3] 8.5	130.2 [38.2] 130.2 [38.2] 8.6	122.8 [36.0] 108.5 [31.8] 8.4	120.3 [35.3] 100.5 [29.5] 8.3
U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	137.7 [40.4] 96.4 [28.3] 9.4	129.8 [38.0] 75.5 [22.1] 9.2	127.2 [37.3] 69.1 [20.3] 9.1	130.9 [38.4] 114.5 [33.6] 9.2	123.4 [36.2] 91.6 [26.9] 9.0	120.9 [35.4] 84.5 [24.8] 8.9	125.7 [36.8] 125.7 [36.8] 9.0	118.5 [34.7] 106.6 [31.3] 8.8	116.1 [34.0] 98.8 [29.0] 8.7
- E P E	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	132.8 [38.9] 93.6 [27.4] 9.9	125.2 [36.7] 73.4 [21.5] 9.6	122.7 [36.0] 67.2 [19.7] 9.5	126.0 [36.9] 111.7 [32.7] 9.7	118.8 [34.8] 89.5 [26.2] 9.4	116.4 [34.1] 82.6 [24.2] 9.3	120.8 [35.4] 120.8 [35.4] 9.5	113.9 [33.4] 104.5 [30.6] 9.2	111.6 [32.7] 96.9 [28.4] 9.1
R A T U	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	127.6 [37.4] 90.7 [26.6] 10.4	120.3 [35.3] 71.2 [20.9] 10.1	117.9 [34.6] 65.2 [19.1] 10.0	120.7 [35.4] 108.7 [31.9] 10.2	113.8 [33.4] 87.2 [25.6] 9.9	111.5 [32.7] 80.5 [23.6] 9.8	115.6 [33.9] 115.6 [33.9] 10.0	109.0 [31.9] 102.2 [30.0] 9.7	106.8 [31.3] 94.8 [27.8] 9.6
R E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	121.9 [35.7] 87.4 [25.6] 10.9	115.0 [33.7] 68.7 [20.1] 10.6	112.6 [33.0] 62.9 [18.4] 10.5	115.1 [33.7] 105.5 [30.9] 10.7	108.5 [31.8] 84.7 [24.8] 10.4	106.3 [31.2] 78.2 [22.9] 10.3	109.9 [32.2] 109.9 [32.2] 10.5	103.6 [30.4] 99.7 [29.2] 10.2	101.5 [29.7] 92.5 [27.1] 10.1
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	115.9 [34.0] 84.0 [24.6] 11.4	109.3 [32.0] 66.1 [19.4] 11.1	107.1 [31.4] 60.6 [17.8] 11.0	109.0 [31.9] 102.0 [29.9] 11.2	102.8 [30.1] 82.1 [24.1] 10.9	100.7 [29.5] 75.9 [22.3] 10.8	103.9 [30.5] 103.9 [30.5] 11.0	?98.0 [28.7] 97.1 [28.5] 10.7	96.0 [28.1] 90.2 [26.4] 10.6
		sion ratio		al capacity x 10		NOTES: ①		ring air dry bult			

dbE —Entering air dry bulb wbE—Entering air wet bulb

Sens —Sensible capacity x 1000 BTUH Power—KW input

capacity from the table by adding $[1.10 \times CFM \times (1 - DR) \times (dbE - 80)]$.



GROSS SYSTEMS PERFORMANCE DATA—B151

					ENTERING IND	00R AIR @ 80°	°F [26.7°C] ①				
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	5800 [2737]	4225 [1994]	3800 [1793]	5800 [2737]	4225 [1994]	3800 [1793]	5800 [2737]	4225 [1994]	3800 [1793]
	-	DR ①	0	.03	.06	0	.03	.06	0	.03	.06
0	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	196.8 [57.7] 135.5 [39.7] 10.2	184.4 [54.0] 103.0 [30.2] 9.9	181.0 [53.0] 94.9 [27.8] 9.8	186.8 [54.7] 156.7 [45.9] 10.0	175.0 [51.3] 121.7 [35.7] 9.7	171.8 [50.3] 112.9 [33.1] 9.6	178.6 [52.3] 177.9 [52.1] 9.7	167.3 [49.0] 140.2 [41.1] 9.4	164.2 [48.1] 130.7 [38.3] 9.3
U T D O	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	192.1 [56.3] 132.7 [38.9] 10.7	179.9 [52.7] 100.8 [29.6] 10.3	176.6 [51.8] 92.9 [27.2] 10.3	182.1 [53.4] 153.9 [45.1] 10.5	170.6 [50.0] 119.6 [35.1] 10.1	167.4 [49.1] 110.9 [32.5] 10.0	173.9 [51.0] 173.9 [51.0] 10.2	162.9 [47.7] 138.2 [40.5] 9.9	159.9 [46.9] 128.9 [37.8] 9.8
O R D	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	187.2 [54.9] 129.7 [38.0] 11.2	175.3 [51.4] 98.6 [28.9] 10.9	172.1 [50.4] 90.9 [26.7] 10.8	177.2 [51.9] 151.1 [44.3] 11.0	166.0 [48.6] 117.5 [34.4] 10.6	162.9 [47.7] 109.0 [32.0] 10.5	169.0 [49.5] 169.0 [49.5] 10.7	158.3 [46.4] 136.0 [39.9] 10.4	155.4 [45.5] 126.9 [37.2] 10.3
R Y B U	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	182.1 [53.4] 126.8 [37.2] 11.8	170.5 [50.0] 96.4 [28.3] 11.4	167.4 [49.1] 88.9 [26.1] 11.3	172.1 [50.4] 148.0 [43.4] 11.5	161.2 [47.2] 115.2 [33.8] 11.2	158.2 [46.4] 106.9 [31.3] 11.1	163.9 [48.0] 163.9 [48.0] 11.3	153.5 [45.0] 133.7 [39.2] 10.9	150.7 [44.2] 124.8 [36.6] 10.8
L B T	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	176.8 [51.8] 123.6 [36.2] 12.3	165.6 [48.5] 94.1 [27.6] 11.9	162.5 [47.6] 86.7 [25.4] 11.8	166.8 [48.9] 144.9 [42.5] 12.1	156.2 [45.8] 112.8 [33.1] 11.7	153.3 [44.9] 104.7 [30.7] 11.6	158.6 [46.5] 158.6 [46.5] 11.9	148.5 [43.5] 131.3 [38.5] 11.5	145.8 [42.7] 122.6 [35.9] 11.4
E M P E	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	171.3 [50.2] 120.3 [35.3] 13.0	160.4 [47.0] 91.6 [26.9] 12.5	157.5 [46.2] 84.5 [24.8] 12.4	161.3 [47.3] 141.6 [41.5] 12.7	151.0 [44.3] 110.3 [32.3] 12.3	148.3 [43.5] 102.5 [30.0] 12.2	153.1 [44.9] 153.1 [44.9] 12.5	143.3 [42.0] 128.8 [37.8] 12.1	140.7 [41.2] 120.3 [35.3] 12.0
R A T U	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	165.6 [48.5] 116.9 [34.3] 13.6	155.1 [45.5] 89.1 [26.1] 13.2	152.2 [44.6] 82.2 [24.1] 13.0	155.6 [45.6] 138.2 [40.5] 13.4	145.7 [42.7] 107.8 [31.6] 12.9	143.0 [41.9] 100.2 [29.4] 12.8	147.4 [43.2] 147.4 [43.2] 13.1	138.0 [40.4] 126.3 [37.0] 12.7	135.5 [39.7] 118.0 [34.6] 12.6
R E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	159.7 [46.8] 113.4 [33.2] 14.3	149.6 [43.8] 86.5 [25.4] 13.8	146.8 [43.0] 79.8 [23.4] 13.7	149.7 [43.9] 134.7 [39.5] 14.0	140.2 [41.1] 105.2 [30.8] 13.6	137.6 [40.3] 97.8 [28.7] 13.5	141.5 [41.5] 141.5 [41.5] 13.8	132.5 [38.8] 123.7 [36.3] 13.4	130.1 [38.1] 115.6 [33.9] 13.3
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	153.6 [45.0] 109.8 [32.2] 15.0	143.9 [42.2] 83.8 [24.6] 14.5	141.2 [41.4] 77.3 [22.7] 14.4	143.6 [42.1] 131.0 [38.4] 14.7	134.5 [39.4] 102.5 [30.0] 14.3	132.0 [38.7] 95.3 [27.9] 14.2	135.4 [39.7] 135.4 [39.7] 14.5	126.8 [37.2] 121.0 [35.5] 14.1	124.5 [36.5] 113.1 [33.2] 13.9

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

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

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

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AIL															Ē	cterna	l Stati	c Pre	External Static Pressure—Inches of Water [kPa]	-Inch	es of V	Water	[kPa]															
	1.0	[.02]	0.2 [[.05]	0.3 [.	07] [0.4 [.1	0	.5 [.1	2] 0.	6[.15	0	7[.17]	0.8	[.20]	0.9	[.22]	1.0[.25]	1.1	27] 1	.2 [.3	1-	3[.32	1.1	4 [.35]	1.5	[.37]	1.6	[.40]	1.7 [.42]	1.8 [.	45]	9.] 0.	1.9 [.47] 2.0 [0 [.50]	_
^{orm 12/3} IRPM W RPM W	RPM	N	RPM	≥	RPM	N	SPM 8	W B	PM V	V RP	M M	/ RPI	M	RPN	×	RPM	≥	RPM	×	RPM	W	Md	W BF	M Mc	V RP	M	RPN	N K	RPM	≥	RPM	≥	RPM	N	PM	N RPM	M	_
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2600 [1227]	[2				564	687 t	687 603 769	769 6.	635 8	853 667	37 94	945 729	9 101(0 758	1072	787	1134	816	729 1010 758 1072 787 1134 816 1196 846 1258 875 1320 914 1581	846	1258 8	375 1;	320 9.	14 15	81 94	943 1666	97.	972 1751 1002 1837 1031 1922 1061 2008 1090 2093 1119 2178	1002	1837	1031	1922	1061	2008 1	090 2	93 11	19 217	8
2700 [1274	1	1	539	670	577	744 (614 8	828 6.	48 9	23 68	30 101	17 73.	7 107t	0 766	1132	262	1194	825	1256	854 7	1318 8	383 1;	380 92	21 16.	45 95	50 173.	0 98	0 1816	1009	1901	1038	1986	1068	2072 1	097 2	11 11	27 224	ŝ
2800 [1321			554	733	590	801 (625 8	887 6	6 09.	93 70	106	39 74t	5 113	1 775	1192	804	1254	834	1316	863	1378 8	392 14	140 92	28 17.	<u> 9</u> 6	58 179	4 98	7 1880	1016	1965	1046	2050	1075	2136 1	104 2	21 11	34 230	7
2900 [1365			569	801	604	866 t	638	956 6	73 10	69 72	5 112	29 75	5 119	1 784	1253	813	1315	842	1376	872	1438 5	306 11	388 9;	36 17.	73 96	35 185.	8 99	4 1944	1024	2029	1053	2115	1082	2200 1	112 2	285 11	41 237	1
3000 [1416	3] 546	741	854	869	617	931 (650 11	024 6	85 11	44 73	31 115	39 76	3 125	1 792	1313	822	1375	851	1437	880	1498 5	313 1.	752 94	43 18,	37 97	72 192	3 100	2 2008	1031	2093	1060	2179	1090	2264 1	119 2;	350 11	48 243	35
3100 [1463] 560 804 598 940 632 1010 664 1107 713 1187 743 1249 772 1311 801 1373 830 1435 860 1497 889 1559 921 1816 950 1901 979 1987 1009 2072 1038 2157 1068 2243 1097 2328 1126 2414 1156 2499	3] 560	804	1 598	940	632 1	1010 (664 1	107 7	13 11	87 74	124	49 77	2 131	1 801	1373	830	1435	860	1497	889	559 5	321 18	316 9!	50 19	01 97	79 198	7 100	9 2072	1038	2157	1068	2243	1097	2328 1	126 2.	114 11	56 249	99
3200 [1510	J] 576	876	3 612	1011	646 1	1089 (678 1	189 7.	22 12	47 75	51 130	.87 QC	1 137	1 810	1433	839	1495	868	1557	898	1619 S	328 18	380 95	57 19(65 95	37 205	1 101	5 2136	1045	2222	1075	2307	1104	2392 1	134 2.	11 8 11	63 256	33
3300 [1557	7] 592	954	1 628	1096	660 1	1168 t	692 12	274 7.	31 13	07 76	30 136	39 78	9 143	1 818	1493	848	1555	877	1617	906	859 5	335 11	344 9(55 20.	29 95	34 211.	5 102;	3 2200	1053	2286	1082	2371	1111	2456 1	141 2	542 11	70 262	27
3400 [1605] 607 [1030] 643 [1180] 673 [1247] 710 [1306] 739 [1368] 769 [1430] 798 [1491] 827 [1553]	5] 607	1030	643	1180	673 1	1247	710 1;	306 7.	39 13	68 76	39 145	30 79	3 149	1 827	1553	856	1615	886	856 1615 886 1677 913 1923 943 2008 972 2094 1001 2179 1031 2264 1060 2350 1089 2435 1119 2521 1148 2606 1178 2691	913	923 5	343 21	108 9.	72 20;	94 100	11 217.	9 103	1 2264	1060	2350	1089	2435	1119	2521 1	148 2	306 11	78 269	1
3500 [1652	2] 622	1112	658	1271	689 1	1344	719 1;	366 7.	48 14	28 77	7 145	30 80	7 155	2 836	1613	865	1675	894	836 1613 865 1675 894 1737 920 1987 950 2072 979 2158 1009 2243 1038 2328 1067 2414 1097 2499 1126 2585 1155 2670 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 2756 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 1185 11	920	1987 5	350 Zt	772 9.	79 21;	58 100	19 224	3 103	3 2328	1067	2414	1097	2499	1126	2585 1	155 2	370 11	85 275	66
3600 [1699] 638 [1202 672 [1361] 704 [1440] 728 [1426] 757 [1488 786 [1550] 815 [1512] 844 [1574] 874 [1574] 874 [1574] 803 [1797] 928 [2051] 957 [2136] 986 [2222 [1016 [2307 [1045 [2333] 1075 [2478] 1104 [2563] 1133 [2649] 1163 [2734] 1192 [2820]	9] 638	1202	972	1361	704 1	1440	728 14	426 7.	57 14	88 75	36 155	50 81	5 161	2 844	1674	874	1735	903	1797	928 2	2051 5	357 2	136 9(36 22.	22 10	16 230	7 104	5 2393	1075	2478	1104	2563	1133	2649 1	163 2	734 11	92 282	0
NOTE: L-Drive left of 1st bold line. M-Drive in middle of bold lines. N-Drive ri	Drive le	oft of	1st bc	old lin.	e. M-D	Trive i	n mid	dle of	blod	lines.	N-Dri	ive rio	aht of 2nd bold line.	2nd b	old lir	Je.																						

<u>–</u> 5 ΰ -DIIVE <u>'</u>

Drive Package			_						Σ						Z			
Motor H.P. [W]			2.0 [1491.4]	191.4]					2.0 [1491.4]	91.4]					3.0 [2237.1	37.1]		
Blower Sheave			BK110	110					BK90	0(BK65	5		
Motor Sheave			1VP	1VP-44					1VP-44	44					1VP-44	44		
Turns Open	-	2	3	4	5	9	. –	2	S	4	5	9	-	2	с	4	5	9
RPM	682	650	620	587	555	523	869	838	806	774	742	710	1157	1106	1056	1005	954	904

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NOTES: 1. Factory sheave settings are shown in bold print. 2. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum E.S.P. 3. Do not operate above blower RPM shown as motor overloading will occur. 4. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 7.5 TON [26.4 kW]

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

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

[] Designates Metric Conversions

COMPONENT AIR RESISTANCE, IWC 7.5 TON [26.4 kW]

Standard Indoor Airflow—CFM [L/s]

Component	2400	2600	2800	3000	3200	3400	3600
	[1133]	[1227]	[1321]	[1416]	[1510]	[1604]	[1699]
			Resistanc	Resistance—Inches Water [kPa]	ater [kPa]		
Wet Coil	0.047	0.051	0.055	0.060	0.065	0.071	0.076
	[0.012]	[0.013]	[0.014]	[0.015]	[0.016]	[0.018]	[0.019]
Concentric Diffuser RXRN-FA65 or FA75 & Transition RXMC-CD04	DNA	.017 [0.042]	.020 [0.050]	.025 [0.062]	.031 [0.077]	.037 [0.092]	DNA
Concentric Diffuser RXRN-AA61 or AA71 & Transition RXMC-CE05	DNA	DNA	DNA	DNA	DNA	DNA	.017 [0.042]
Economizer	0.05	0.06	0.07	0.08	0.09	0.10	0.11
100% R.A. Damper Open	[0.012]	[0.015]	[0.017]	[0.020]	[0.022]	[0.025]	[0.027]
Horizontal Economizer	0.03	0.04	0.04	0.05	0.05	0.06	0.06
100% R.A. Damper Open	[0.007]	[0.009]	[0.010]	[0.011]	[0.012]	[0.014]	[0.015]
Horizontal Economizer	0.08	0.08	0.08	0.10	0.11	0.12	0.13
100% O.A. Damper Open	[0.020]	[0.020]	[0.020]	[0.024]	[0.027]	[0.030]	[0.032]
NOTE: Add component resistance to duct resistance to determine total external static pressure.	luct resistan	ice to deterr	nine total ex	ternal static	pressure.		



AIRFLOW PERFORMANCE—RKKL- SERIES

AIRFLOW PERFORMANCE-10 TON [35.2 KW]

		20] 0.9 [.22] 1.0 [.25] 1.1 [.27] 1.2 [.30] 1.3 [.32] [1.4 [.35] 1.5 [.37] 1.6 [.40] 1.7 [.42] 1.8 [.45] 1.9 [.47] 2.0 [.50] 2.1 [.52] 2.2 [.55] 2.3 [.57]	W RPM W	 	 	 	 	 	 		 	 	 				 	 	 		
		2] 2.2 [.	RPM	1	1	1	1	1			1	1	1						1		
		2.1 [.5	RPM W	8 1138 26																	
		2.0 [.50]	RPM W	1118 249	1125 261																
		1.9 [.47]	RPM W RPM W RPM W RPM M	098 2384	105 2503	113 2622	120 2740	128 2859	135 2978												
		8 [45]	PM W F	777 2271	385 2390	992 2508	100 2627	108 2746	115 2864	123 2983	130 3102	138 3221				1	1				
		[.42] 1	M W R	7 2157 10	5 2276 10	2 2395 1(0 2513 1	7 2632 1	5 2751 1	2 2870 1	0 2988 1	7 3107 1			3453	1	1	1	1		
		.40] 1.7	W RPI	2044 105	2162 106	2281 107	2400 108	2519 108	2637 109	2756 110	2875 111	2994 111	3112 112	3231 113	3350 1140	3468 —	3587 —				
		37] 1.6[W RPM W	930 1037	049 1044	168 1052	286 1059	405 1067	524 1075	643 1082	761 1090	880 1097	999 1105	117 1112	236 1120	355 1127	474 1135	592 —	3711 —	830 —	
	[5] 1.5 [RPM W RPM	976 1703 996 1817 1017 1930 1037 2044 1057 2157 1077 2271 1098 2384 1118 2498 1138 2611	948 1822 976 1935 1024 2049 1044 2162 1065 2276 1085 2390 1105 2503 1125 2617	962 1941 989 2054 1032 2168 1052 2281 1072 2395 1092 2508 1113 2622	975 2059 1003 2173 1039 2286 1059 2400 1080 2513 1100 2627 1120 2740	989 2178 1016 2292 1047 2405 1067 2519 1087 2632 1108 2746 1128 2859	973 2070 993 2163 1002 2297 1030 2410 1054 2524 1075 2637 1095 2751 1115 2864 1135 2978	981 2189 1001 2302 1016 2416 1043 2529 1062 2643 1082 2756 1102 2870 1123 2983	988 2307 1008 2421 1029 2534 1057 2648 1069 2761 1090 2875 1110 2988 1130 3102	975 2312 996 2426 1016 2539 1043 2653 1070 2767 1077 2880 1097 2994 1117 3107 1138 3221	983 2431 1003 2545 1024 2658 1056 2772 1084 2885 1084 2999 1105 3112 1125 3226	990 2550 1011 2663 1031 2777 1070 2890 1097 3004 1092 3117 1112 3231 1133 3345	998 2669 1018 2782 1039 2896 1083 3009 1111 3123 1099 3236 1120 3350	985 2674 1006 2787 1026 2901 1046 3014 1097 3128 1124 3241 1107 3355 1127 3468	993 2793 1013 2906 1033 3020 1054 3133 1110 3247 1138 3360 1115 3474 1135 3587	2798 1000 2911 1021 3025 1041 3138 1061 3252 1124 3365 1151 3479 1122 3592	2916 1008 3030 1028 3143 1048 3257 1069 3371 1137 3484 1165 3598 1130 3711	3035 1015 3149 1036 3262 1056 3376 1076 3489 1151 3603 1178 3716 1137 3830	
	/ater [kP¿	1.4 [.3	RPM V	13 996 1£	2 976 15	11 989 20	59 1003 21	78 1016 22	1030 24	6 1043 25	1057 26	3 1070 27	72 1084 26	1097 30	1111 31	38 1124 35	17 1138 35	1151 34	1165 35	1178 37	
	External Static Pressure—Inches of Water [kPa]	1.3 [.32	RPM W RPM W RPM W						1002 229	1016 241	1029 253	1043 265	1056 277	1070 285	1083 300	1097 312	1110 324	1124 336	1137 348	1151 360	
	sure-In	1.2 [.30]	RPM W	956 1698	943 1705 963 1708	971 1827	978 1946	986 2065	993 2183	1001 2302	1008 2421	1016 2539	1024 2658	1031 2777	1039 2896	1046 3014	1054 3133	1061 3252	1069 3371	1076 3489	
	atic Pres	.1 [.27]	PM W	880 1692	343 1705	950 1811	958 1832	966 1951	373 2070	381 2189	388 2307	396 2426 ·	003 2545	011 2663	018 2782	726 2901	333 3020	041 3138	3257	3376	
	tternal St	0 [.25] 1	RPM W R	852 1617 8		879 1763 9	938 1813 9	945 1892 9	953 1956 9	960 2075 9	968 2194 9	75 2312 9	33 2431 10	90 2550 10	38 2669 10	06 2787 10	13 2906 10	21 3025 10	28 3143 10	36 3262 10	
	Ð	[.22] 1.	≥	825 1543 8	838 1626 866 1700	852 1708 8	865 1791 90	879 1874 94	933 1896 9	940 2003 96	948 2080 96	955 2199 97	963 2318 98	970 2438 99	978 2555 99	5 2674 100	3 2793 10	2911 102	3 3030 102	5 3149 100	
		.20] 0.9	W RPM	1468 825	1551 838	1634 852	1717 865	1799 879	1882 933	1965 94(2015 948	2085 955	2204 963	2323 970	2442 978	2560 985	2679 993	2798 1000	2916 1008	3035 1015	
		17] 0.8 [W RPM	394 797		559 824		725 851		890 878			942				585 973	980	803 988		
		5] 0.7 [.	V RPM	657 1170 715 1245 742 1319 770 1394	02 783 1	85 797 1	88 810 1	50 824 1	33 837 1	18 861 1	99 864 1	61 878 2	64 922 2	47 930 2	15 937 2	33 945 2	52 952 2	71 960 2	89 967 2	08 975 2	
		0.6 [.1;	RPM V	5 742 13	8 756 14	0 769 14.	3 783 15.	5 796 16.	9 810 17.	1 823 18	4 837 18	7 850 19.	0 864 20	2 877 21	5 917 22	924 23.	8 932 24.	7 940 25	5 947 26.	5 955 28	
		0.5[.12]	RPM W	715 124.	728 132.	742 141	755 149.	769 157	782 165	796 174	809 182.	823 190	836 199.	850 207.	853 215.	877 223.	912 233.	919 245	927 257	934 269.	hold lin
[0.4 [.10]	3PM W	657 1170	701 1253	714 1336	728 1419	741 1501	755 1584	768 1667	782 1750	795 1832	809 1915	822 1998	836 2081	849 2163	863 2248	876 2329	906 2462	914 2581	richt of
10 Ton [35.2 kW		.3 [.07] [PM W F		673 1179 701 1253 728 1328 756 1402 783 1477 811	687 1261 714 1336 742 1410 769 1485 797 1559 824	00 1344	14 1427	27 1510	41 1592	54 1675	68 1758	81 1841	95 1923	08 2006	22 2089	35 2172	40 2254 .	62 2337	76 2420	M_Drive
10 Ton		? [.05] 0.	MPM W MPM	Ι	Ι	Ι	673 1270 700 1344 728 1419 755 1493 783 1588 810 1642 838	686 1352 714 1427 741 1501 769 1576 796 1650 824 1725	0 1435 7;	3 1518 7-	7 1601 7;	0 1683 7	4 1766 7	7 1849 7:	1 1932 8t	4 2014 8;	8 2097 8.	1 2180 8-	5 2263 80	8 2345 8	old ling
Capacity		[.02] 0.2	I W RP				- 673	- 686	1361 700	1443 71;	1526 72	1609 74	1692 75-	1774 76.	1857 78	1940 79.	2023 800	2105 82	2188 83	2271 84	10ft of h
	AIr	CFM [1] \string [0.1 [.02] 0.2 [.05] 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15] 0.7 [.17] 0.8	RPM	3200 [1510]	3300 [1557]	3400 [1605]	3500 [1652] —	3600 [1699]	3700 [1746] 672 [1361 700 [1435] 727 [1510] 755 [1584] 782 [1659] 810 [1733] 837 [1808] 865	3800 [1793] 686 [1443] 713 [1518] 741 [1592] 768 [1667] 796 [1741] 823 [1818] 861 [1890]	3900 [1841] 699 1526 727 1601 754 1675 782 1750 809 1824 837 1899 864 1973 927	4000 [1888] 713 [1609] 740 [1683] 768 [1758] 795 [1832] 823 [1907] 850 [1961] 878 [2056] 935	4100 [1935] 726 1692 754 1766 781 1841 809 1915 836 1990 864 2064 922 2091	4200 [1982]] 740 [1774] 767 [1849] 795 [1923] 822 [1998] 850 [2072] 877 [2147] 930 [2209] 950	4300 [2029] 753 [1857] 781 [1932] 808 [2006] 836 [2081] 853 [2155 <mark>] 917 [2215]</mark> 937 [2328] 957	4400 [2077] 767 [1940] 794 [2014] 822 [2089] 849 [2163] 877 [2238] 924 [2333] 945 [2447] 965	4500 [2124] 780 [2023] 808 [2097] 835 [2172] 863 [2248] 912 [2338] 932 [2452] 952 [2585] 973	4600 [2171]] 794 [2105] 821 [2180] 840 [2254] 876 [2329] 919 [2457] 940 [2571] 960 [2684]	4700 [2218] 807 [2188] 835 [2263] 862 [2337 <mark>] 906 [2462]</mark> 927 [2576] 947 [2689] 967 [2803] 988	4800 [2265] 821 [2271] 848 [2345 876 [2420] 914 [2581 934 [2695] 955 [2808 975 [2922] 995	NDTE: I Drive left of hold line M Drive right of hold line
	₹ 1	CEM	5	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	NOTE

				9	894
				5	943
	7.1]		4	4	992
Μ	3.0 [2237.1]	BK65	1VP-44	3	1041
				2	1089
					1138
				9	669
				5	704
	t91.4]	BK90	1VP-44	4	739
_	2.0 [1491.4]	BK	1VP	3	775
				2	810
				-	845
Drive Package	Motor H.P. [W]	Blower Sheave	Motor Sheave	Turns Open	RPM

NOTES: 1. Factory sheave settings are shown in bold print. 2. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum E.S.P. 3. Do not operate above blower RPM shown as motor overloading will occur. 4. Do not set motor sheave below one turn open.

COMPONENT AIR RESISTANCE, IWC 10 TON [35.2 KW]

AIRFLOW CORRECTION FACTORS 0 TON [35.2 KW]
OW CC 1 [35.2
TON

[1510] [1605] [1699] [1793] [1888] [1982] [2077] [2171] [0.96 0.97 0.98 0.99 1.00 1.01 1.02 1.03 1 0.91 0.95 0.97 1.09 1.01 1.02 1.03 1 0.91 0.95 0.97 1.00 1.02 1.03 1.07 0 0.91 0.93 0.99 1.00 1.02 1.07 1.07 0 0.98 0.99 0.99 1.00 1.01 1.01 1.07	ACTUAL—CFM	3200	3400	3600	3800	4000	4200	4400	4600	4800
0.96 0.97 0.98 0.99 1.00 1.01 1.02 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 <th< th=""><th>[r/s]</th><th>[1510]</th><th>[1605]</th><th>[1699]</th><th>[1793]</th><th>[1888]</th><th>[1982]</th><th>[2077]</th><th>[2171]</th><th>[2265]</th></th<>	[r/s]	[1510]	[1605]	[1699]	[1793]	[1888]	[1982]	[2077]	[2171]	[2265]
I 0.91 0.93 0.95 0.97 1.00 1.02 1.05 1.07 7 0.98 0.98 0.99 0.99 1.00 1.00 1.01 1.01 1.01 1.01	TOTAL MBH	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04
0.98 0.99 0.99 1.00 1.00 1.01 0.01	SENSIBLE MBH	0.91	0.93	0.95	0.97	1.00	1.02	1.05	1.07	1.09
	POWER KW	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.01

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

[] Designates Metric Conversions

			i	: .	;				[
			Stal	Standard Indoor Airflow—CFM [L/s]	oor Airflov	V-CFM [I	[S]		
Comnonent	3200	3400	3600	3800	4000	4200	4400	4600	4800
	[1510]	[1604]	[1699]	[1793]	[1888]	[1982]	[2076]	[2171]	[2265]
			Resista	Resistance—Inches Water [kPa]	thes Wate	r [kPa]			
Wet Coil	0.065 [0.016]	0.071 [0.018]	0.076 [0.019]	0.082 [0.020]	0.087 [0.022]	0.093 [0.023]	0.099 [0.025]	0.105 [0.026]	0.110 [0.027]
Concentric Diffuser RXRN-FA65 or FA75 & Transition RXMC-CD04	0.31 [0.077]	0.37 [0.092]	DNA	DNA	DNA	DNA	DNA	DNA	DNA
Concentric Diffuser RXRN-AA61 or AA71 & Transition RXMC-CE05	DNA	DNA	0.17 [0.042]	0.18 [0.045]	0.21 [0.052]	0.24 [0.060]	0.27 [0.067]	DNA	DNA
Concentric Diffuser RXRN-AA66 or AA76 & Transition RXMC-CF06	DNA	DNA	DNA	DNA	DNA	DNA	DNA	0.31 [0.077]	0.32 [0.080]
Economizer 100% R.A. Damper Open	0.09 [0.022]	0.10 [0.025]	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]	0.14 [0.035]	0.15 [0.037]	0.16 [0.040]	0.17 [0.042]
Horizontal Economizer 100% R.A. Damper Open	0.05 [0.012]	0.06 [0.014]	0.06 [0.015]	0.07 [0.017]	0.08 [0.020]	0.09 [0.021]	0.09 [0.022]	0.10 [0.024]	0.10 [0.025]
Horizontal Economizer 100% O.A. Damper Open	0.11 [0.027]	0.12 [0.030]	0.13 [0.032]	0.15 [0.0.36]	0.16 [0.040]	0.18 [0.044]	0.19 [0.047]	0.20 [0.50]	0.21 [0.052]
NOTE: Add component resistance to duct resistance to determine total external static pressure.	duct resi	stance to	determin	e total ex	ternal sta	tic pressu	Ire.		

DNA = Data not Available.

AIRFLOW PERFORMANCE—RKKL- SERIES



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	Mo	del Rk	Model RKKL-B151	=																																	Γ
Air	Vol	tage 2	208/230	1,460,	575 -	Voltage 208/230, 460, 575 — 3 phase 60 Hz	se 60	Ηz																													
Flow															Ä	ternal	Static	Pressu	External Static Pressure—Inches of Water [kPa]	Iches (of Wat	er (kP	a]														
CFM [L/s]		.02]	0.2 [.0	5] 0.	.3 [.07	0.1 [.02] 0.2 [.05] 0.3 [.07] 0.4 [.10] 0.5 [.12] 0.6 [.15]	[.10]	0.5 [[.12]	0.6 [.15]	0.7 [.17]	0.8[.20]		0.9 [.22]		1.0 [.25]	1.	1.1 [.27] 1.2 [.30] 1.3 [.32]	1.2	[.30]	1.3	1.32]		1.4 [.35]	1.5 [1.5 [.37]	1.6 [.40]		1.7 [.42]		1.8[.45]		1.9 [.47]	2.0	2.0[.50]
	RPM	×	RPM	W RF	M Mc	RPM W RPM W RPM W RPM W RPM W RPM W RPM	N I	RPM	8	RPM	≥	RPM	Μ	RPM	W	RPM	W RF	Md	RPM W RPM W RPM W	M	RP	N N	RPN	RPM W	RPN	N F	RPM	RPM W RPM W	RPM		RPM W	W	RPM W	V RPM	M	RPM	M
3800 [1793]		1					828 1605		854 1661		879 1722	904	1786	929 1	1853	954 19	1924 9	979 199	1998 1004	04 2075		1028 2156	6 105;	1052 2241	1076	2328		1099 2420 1123	1123	2514 1146		2613 1169	169 2714	14 1192	2819	9 1215	5 2928
4000 [1888]	1	1		∞ 	830 1735	I .	855 1796		880 1859	1	905 1927	930	1997	955 2	2072	979 2149		1004 223	2230 1028	28 2315		1052 2403	3 107	1075 2494	1099	2589	1122	387	1145	2789 1168		2894 1190	190 3002	02 1213	3 3114	t 1235	3230
4200 [1982]			832 18	1877 8	858 1941		883 2008		908 2079		932 2153	957	2230	981 2	2312 1	1005 23	2396 10	1029 2484	84 1053	53 2575	75 1076	6 2670		1099 2769	9 1122	2870	1145	2975	1168	3084	1190 3	3196 1	1212 33	3312 1234	4 3430	1256	3553
4400 [2076]	836	836 2029	862 2096		886 2167		911 2241		936 2319		960 2400	984	2485	1008 2	2573 1	1031 26	2664 10	1055 275	2759 1078	78 2858	58 1101	1 2959	9 1124	4 3065	5 1146	3173	1169	3285	1191	3401	1213 3	3520 1:	1235 36	3642 1256	6 3768	3 1278	3897
4600 [2171]	867	867 2263	891 23	2337 9	916 2415		940 2496		964 2581		988 2669	1012	2760	1035 2	2855 1	1058 29	2954 10	1081 30	3056 1104	04 3161	31 1127	7 3270	0 1149	9 3382	2 1171	3497	1193	3616	1215	3739	1236 3	3865 1	1258 3994	94 1279	9 4127	7 1300	14263
4800 [2265]	897	2518	922 2599		946 2684		970 2772		993 2864	1017	1017 2959	1040	3057	1063 3	3159 1	1086 32	3265 11	1108 337	3373 1131	31 3485	35 1153	3 3601	1 1175	5 3720	1196	3843	1218	3969	1239	4098	1261 4	4231 1:	1282 4367	67 —		1	
5000 [2359]	929	929 2795	953 2883		76 297	976 2975 1000 3070	3070	0 1023	3168	1023 3168 1046 3270 1069	3270		3375	1091 3	484	1114 35	3597 11	1136 37	3712 1158	58 3831	31 1179	9 3954		1201 4080	0 1222	4209	4209 1244	4342	1264	. 4479	1285 4	4618 -				1	
5200 [2454]		961 3093	984 31	188 10	107 328	984 3188 1007 3286 1030 3388 1053 3494 1076 3603 1098	3385	8 1053	3494	1076	3603		3715	1120	3831 1	1142 39	3950 1164		4072 1186 4199	36 419	120 120	1207 4328	8 122	1228 4461	1 1249	4597	1270	4737 1290		4880		· 					
5400 [2548]		3412	1016 35	514 10	361	993 3412 1016 3514 1039 3619 1062 3728 1084 3841 1106 3956 1128	2 3728	8 1084	3841	1106	3956		4076	1150	4198 1	1171 4(4324 1193	193 44.	4454 1214 4587	14 458	123.	1235 4723	3 125t	1256 4863	3 1276	5007	1296	5153	Ι				 			1	
5600 [2643] 1026 3752 1049 3861 1071 3974 1093 4089 1115 4209 1137 4331 1159	1026	3752	1049 35	361 10	171 397	74 1095	3 4085	9 1115	4209	1137	4331		4458	4458 1180 4	4587 1	1201 47	4720 1222		4857 1243 4997	13 499	126.	1263 5140		1284 5287	- 2	Ι	Ι					· 					
5800 [2737] 1060 4114 1082 4230 1104 4349 1126 4472 1147 4598 1169 4728 1190	1060	4114	1082 42	230 11	04 434	49 112£	3 4475	2 1147	4598	1169	4728		4861	4861 1211 4997 1232 5137 1252 5281 1272 5428 1292 5578	1997	1232 5	137 12	252 52.	81 127	72 542	8 129.	2 557	8					Ι					 	 			
NOTE- I - Drive left of hold line M-Drive right of hold line	rive lef	ft of h	old line	M-D)rive r	inht of	hold	eni																													

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Drive Package			_						M			
Motor H.P. [W]			3.0 [2237.1]	237.1]					5.0 [3728.5]	28.5]		
Blower Sheave			BK7	BK72H					BK85H	5H		
Motor Sheave			1VP	1VP-44					1VP-65	65		
Turns Open	-	2	с	4	2	9	÷	2	°	4	5	9
RPM	1051	1009	996	920	876	824	1294	1256	1216	1177	1136	1094

NOTES: 1. Factory sheave settings are shown in bold print. 2. Do not set motor sheave below minimum or maximum turns open shown. 3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure. 4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

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AIRFLOW CORRECTION FACTORS 12.5 TON [44.0 kW]

ACTUAL—CFM 3800 4000 4200 4400 4600	3800	4000	4200	4400	4600	4800	5000	5200 5400	5400	5600	5800
[r/s]	[L/s] [1793] [1888]	[1888]	[1982]	[2077]	[2077] [2171]	[2265]	[2360]	[2360] [2454] [2549] [2643]	[2549]	[2643]	[2737]
TOTAL MBH	0.98	0.99	1.00	1.01	1.02	1.02 1.03	1.03	1.04	1.05	1.06	1.07
SENSIBLE MBH 0.93 0.96	0.93		1.00	1.04	1.07	1.11	1.11 1.14	1.18	1.21	1.25	1.28
POWER kW	0.99	0.99 1.00	1.00	1.00	1.01	1.01	1.01 1.02	1.02	1.03	1.03	1.03
			•								

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

[] Designates Metric Conversions

COMPONENT AIR RESISTANCE, IWC 12.5 TON [44.0 kW]

				Standa	ard Indo	or Airflo	Standard Indoor Airflow—CFM [L/s]	M [L/S]			
Component	3800 [1793]	4000 [1888]	3800 4000 4200 4200 4400 4600 4800 5000 5200 5400 5600 5800 [1793] [1888] [1982] [2076] [2171] [2265] [2359] [2454] [2643] [2643] [2737]	4400 [2076]	4600 [2171]	4800 [2265]	4400 4600 4800 5000 [2076] [2171] [2265] [2359]	5200 [2454]	5400 [2548]	5600 [2643]	5800 [2737]
				Resi	stance-	-Inches	Resistance—Inches Water [kPa]	[kPa]			
Wet Coil	0.08 1.021	0.09 L 0.01	0.09 F 0.01	0.10 [02]	0.10 F 021	0.11 F 031	0.11 F 031	0.12 I_03	0.13 [03]	0.13 I	0.14 [03]
	[-06]	[-06]	[-04]	[-06]	[-06]	[]	[]	[]	[]	[]	[]
Downflow Economizer	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22
RA Damper Open	[.03]	[.03]	[.03]	[.04]	[.04]	[.04]	[.04]	[:05]	[.05]	[.05]	[.05]
Horizontal Economizer	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13
RA Damper Open	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[.02]	[:03]	[:03]	[.03]	[.03]
Concentric Grill RXRN-AA61 or	0.19	0.21	0.24	0.27	0.30	0.33	0.36	0.40	0.44	0.48	0.52
RXRN-AA71 & Transition RXMC-CE05	[.05]	[.05]	[:05]	[.07]	[.07]	[.08]	[60.]	[.10]	[.11]	[.12]	[.13]
Concentric Grill RXRN-AA66 or	0.23	0.25	0.27	0.29	0.30	0.32	0.34	0.36	0.38	0.40	0.43
RXRN-AA76 & Transition RXMC-CF06	[0.6]	[0.6]	[0.7]	[0.7]	[0.7]	[0.8]	[0.8]	[0.8]	[0.9]	[.10]	[11]
NOTE: Add component resistance to duct resistance to determine total external static pressure.	duct res	istance	to deter	rmine to	otal exte	ernal sta	atic pres	sure.			





ELECTRICAL DATA—RKKL- SERIES



				ELECT	RICAL D	ATA – RK	KL SER	ES				
		B090CL	B090CM	B090CN	B090DL	B090DM	B090DN	B090YL	B090YM	B090YN	B120CL	B120CM
	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	518-632	518-632	518-632	187-253	187-253
tion	Volts	208/230	208/230	208/230	460	460	460	575	575	575	208/230	208/230
Unit Information	Minimum Circuit Ampacity	40/40	40/40	45/45	20	20	23	15	15	19	51/51	56/56
Unit In	Minimum Overcurrent Protection Device Size	50/50	50/50	60/60	25	25	30	20	20	25	60/60	70/70
	Maximum Overcurrent Protection Device Size	60/60	60/60	60/60	30	30	30	20	20	25	80/80	80/80
	No.	1	1	1	1	1	1	1	1	1	1	1
	Volts	200/240	200/240	200/240	480	480	480	600	600	600	200/240	200/240
or	Phase	3	3	3	3	3	3	3	3	3	3	3
Compressor Motor	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
sor	HP, Compressor 1	6	6	6	6	6	6	6	6	6	10	10
res	Amps (RLA), Comp. 1	23.2/23.2	23.2/23.2	23.2/23.2	11.2	11.2	11.2	7.9	7.9	7.9	30.1/30.1	30.1/30.1
	Amps (LRA), Comp. 1	164/164	164/164	164/164	75	75	75	54	54	54	225/225	225/225
ü	HP, Compressor 2	—	—	—	—	—	—	—	_		—	—
	Amps (RLA), Comp 2	—		—	—	—		—				—
	Amps (LLA), Comp 2			_				—				—
2	No.	1	1	1	1	1	1	1	1	1	2	2
Noto	Volts	208/230	208/230	208/230	460	460	460	575	575	575	208/230	208/230
Condenser Motor	Phase	1	1	1	1	1	1	1	1	1	1	1
lens	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/3	1/3
ond	Amps (FLA, each)	2.3/2.3	2.3/2.3	2.3/2.3	1.5	1.5	1.5	1	1	1	2.4/2.4	2.4/2.4
0	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	4.7/4.7	4.7/4.7
	No.	1	1	1	1	1	1	1	1	1	1	1
Fan	Volts	208/230	208/230	208/230	460	460	460	575	575	575	208/230	208/230
ator	Phase	3	3	3	3	3	3	3	3	3	3	3
Evaporator Fan	HP	2	2	3	2	2	3	2	2	3	2	3
Eva	Amps (FLA, each)	8/8	8/8	13/13	4	4	7	4	4	8	8/8	13/13
	Amps (LRA, each)	56/56	56/56	74.5/74.5	28	28	38.1	19	19	20	56/56	74.5/74.5

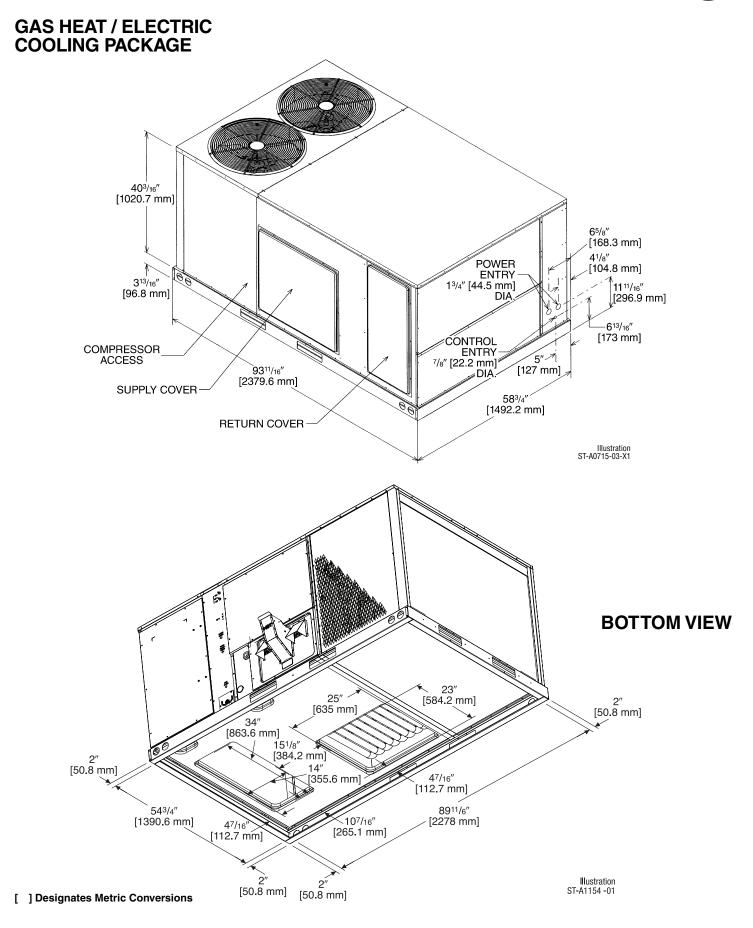


ELECTRICAL DATA—RKKL- SERIES

			ELE	CTRICAL	. data –	RKKL SE	RIES				
		B120DL	B120DM	B120YL	B120YM	B151CL	B151CM	B151DL	B151DM	B151YL	B151YM
	Unit Operating Voltage Range	414-506	414-506	518-632	518-632	187-253	187-253	414-506	414-506	518-632	518-632
tion	Volts	460	460	575	575	208/230	208/230	460	460	575	575
Unit Information	Minimum Circuit Ampacity	28	31	22	26	67/67	71/71	33	36	28	28
Unit In	Minimum Overcurrent Protection Device Size	35	35	25	30	70/70	75/75	35	40	30	30
	Maximum Overcurrent Protection Device Size	40	45	30	35	80/80	90/90	40	45	35	35
	No.	1	1	1	1	2	2	2	2	2	2
	Volts	480	480	600	600	208/230	208/230	460	460	575	575
5	Phase	3	3	3	3	3	3	3	3	3	3
Mot	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
sor	HP, Compressor 1	10	10	10	10	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4	5 3/4
res	Amps (RLA), Comp. 1	16.7	16.7	12.2	12.2	22.4/22.4	22.4/22.4	10.6	10.6	7.7	7.7
Compressor Motor	Amps (LRA), Comp. 1	114	114	80	80	149/149	149/149	75	75	54	54
Ŭ	HP, Compressor 2					5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4
	Amps (RLA), Comp. 2				—	19/19	19/19	9.7	9.7	7.4	7.4
	Amps (LRA), Comp. 2	—		—	—	123/123	123/123	62	62	50	50
r	No.	2	2	2	2	2	2	2	2	2	2
Aoto	Volts	460	460	575	575	208/230	208/230	460	460	575	575
er N	Phase	1	1	1	1	1	1	1	1	1	1
Condenser Motor	HP	1/3	1/3	1/3	1/3	1/2	1/2	1/2	1/2	1/2	1/2
puo	Amps (FLA, each)	1.4	1.4	1	1	2.3/2.3	2.3/2.3	1.5	1.5	1	1
<u> </u>	Amps (LRA, each)	2.4	2.4	1.5	1.5	5.6/5.6	5.6/5.6	3.1	3.1	2.2	2.2
	No.	1	1	1	1	1	1	1	1	1	1
Fan	Volts	460	460	575	575	208/230	208/230	460	460	575	575
Evaporator Fan	Phase	3	3	3	3	3	3	3	3	3	3
por	HP	2	3	3	2	3	5	3	5	3	5
Eva	Amps (FLA, each)	3.4	4.6	2.4	3.5	15/15	18.8/18.8	7	10	8	8
	Amps (LRA, each)	28	38.1	19	20	74.5/74.5	82.6/82.6	38.1	41.3	20	33

UNIT DIMENSIONS—RKKL- SERIES

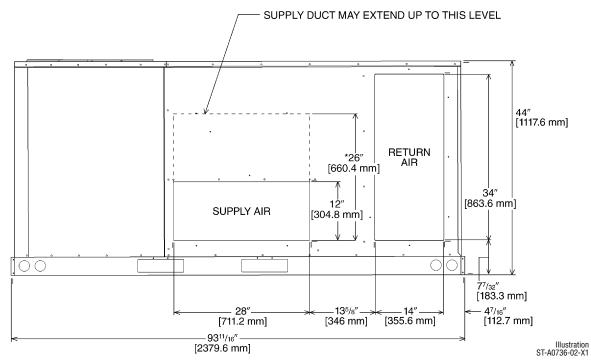






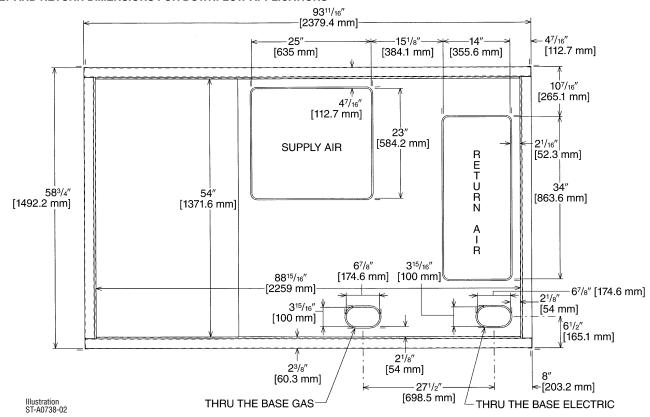
GAS HEAT / ELECTRIC COOLING PACKAGE

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



*RECOMMENDED DUCT DIMENSIONS ARE 26"

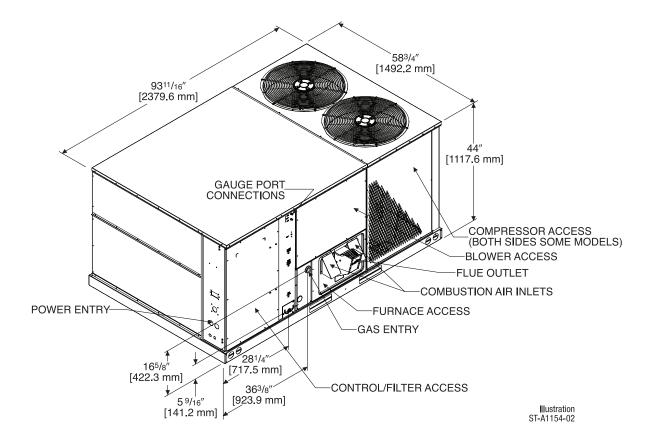
SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



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GAS HEAT / ELECTRIC COOLING PACKAGE



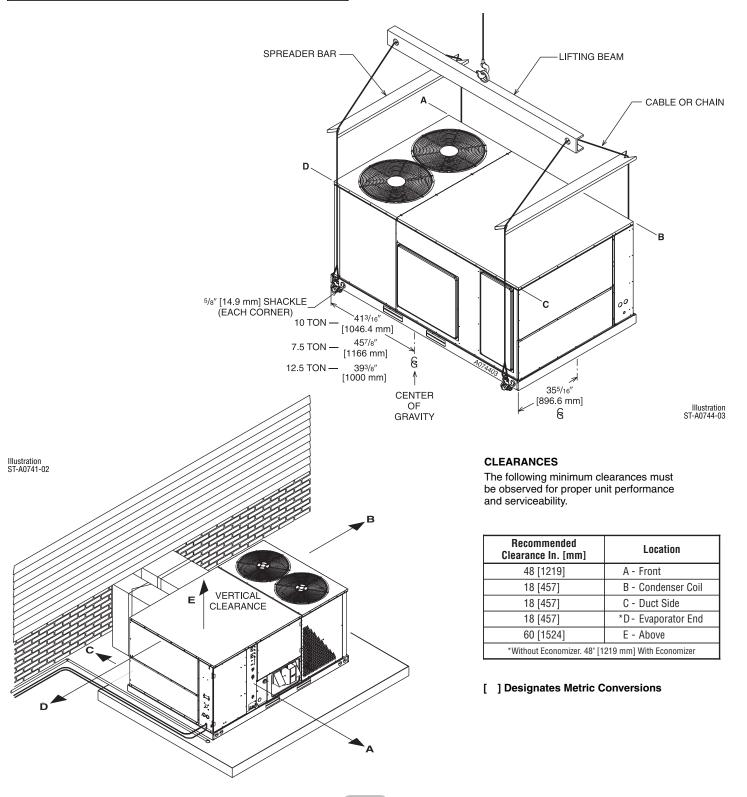


UNIT DIMENSIONS—RKKL- SERIES

WEIGHTS

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

Capacity Tons [kW]	Corner	Weights	by Perc	entage
	Α	В	С	D
7.5 [26.4]	30%	35%	14%	21%
10 [35.2]	33%	27%	17%	23%
12.5 [44.0]	44%	30%	12%	14%



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FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Thermostats	See Thermostat Specifica	No		
Economizer w/Single Enthalpy (Downflow)	RXRD-PDCM3	90 [40.8]	81 [36.7]	Yes
Economizer w/Single Enthalpy and Smoke Detector (Downflow)	RXRD-SDCM3	91 [41.3]	82 [37.2]	Yes
Dual Enthalpy Kit	RXRX-AV02	1 [.5]	1 [.5]	No
Horizontal Economizer w/Single Enthalpy	RXRD-RDCM3	94 [42.6]	89 [40.4]	No
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-BFF02 (C,D,Y)	43 [19.5]	38 [17.2]	No
Manual Fresh Air Damper (Horizontal Return Mounted)	RXRF-JDA1	26 [11.8]	21 [9.5]	No
Manual Fresh Air Damper (Left Panel Mounted)	RXRF-KDA1	38 [17.2]	31 [14.1]	No
Motor Kit for RXRF-KDA1 (Left Panel Mounted)	RXRX-AW02	35 [15.9]	27 [12.2]	No
Motorized Fresh Air Damper (Horizontal Return Mounted)	RXRF-JDB1	43 [19.5]	38 [17.2]	No
Roofcurb, 14"	RXKG-CAE14	90 [40.8]	85 [38.5]	No
Roofcurb, 24"	RXKG-CAE24	140 [63.5]	135 [61.2]	No
	RXRX-CDCE50	300 [136.1]	290 [131.5]	No
Deefeurh Adaptera	RXRX-CFCE54	325 [147.4]	315 [142.9]	No
Roofcurb Adapters	RXRX-CFCE56	350 [158.8]	340 [154.2]	No
	RXRX-CGCC12	450 [204.1]	410 [186.0]	No
Concentric Diffuser (Step-Down, 20" Round)	RXRN-FA65	139 [63.0]	60 [27.2]	No
Concentric Diffuser (Step-Down, 18 x 28)	RXRN-AA61	200 [90.7]	185 [83.9]	No
Concentric Diffuser (Step-Down, 18 x 32)	RXRN-AA66	247 [112.0]	227 [103.0]	No
Concentric Diffuser (Flush, 20" Round)	RXRN-FA75	54 [24.4]	42 [19.0]	No
Concentric Diffuser (Flush, 18 x 28)	RXRN-AA71	170 [77.1]	155 [70.3]	No
Concentric Diffuser (Flush, 18 x 32)	RXRN-AA76	176 [79.8]	161 [73.0]	No
Downflow Transition (Rect. to 20" Round)	RXMC-CD04 ①	15 [6.8]	13 [5.9]	No
Downflow Transition (Rect. to Rect., 18 x 28)	RXMC-CE05 2	18 [8.2]	16 [7.3]	No
Downflow Transition (Rect. to Rect., 18 x 32)	RXMC-CF06 3	20 [9.1]	18 [8.2]	No
Compressor Time-Delay Relay Kit	RXMD-A04	2 [1.0]	1 [.5]	No
Low-Ambient Control Kit (1 Per Compressor)	RXRZ-C02	3 [1.4]	2 [1.0]	Yes
Freeze-Stat Kit	RXRX-AM01	1 [.5]	0.5 [.2]	Yes
Outdoor Coil Louver Kit	RXRX-AAD02A (71/2-121/2 Ton)	29 [11.3]	26 [11.8]	Yes
Unwired Convenience Outlet	RXRX-AN01	2 [1.0]	1.5 [.7]	Yes
Unfused Service Disconnect	RXRX-AP01	10 [4.5]	9 [4.1]	Yes

NOTES: ① Used with RXRN-FA65 and RXRN-FA75 concentric diffusers.

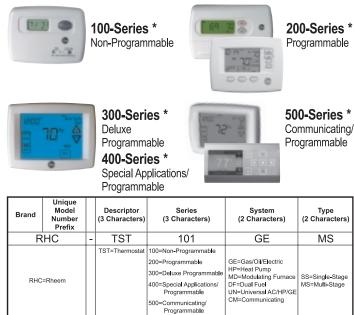
② Used with RXRN-AA61 and RXRN-AA71 concentric diffusers.

③ Used with RXRN-AA66 and RXRN-AA76 concentric diffusers.

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



THERMOSTATS



* Photos are representative. Actual models may vary. For detailed thermostat match-up information,

see specification sheet form number T11-001.

ACCESSORIES

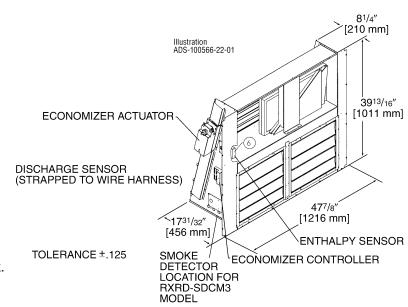


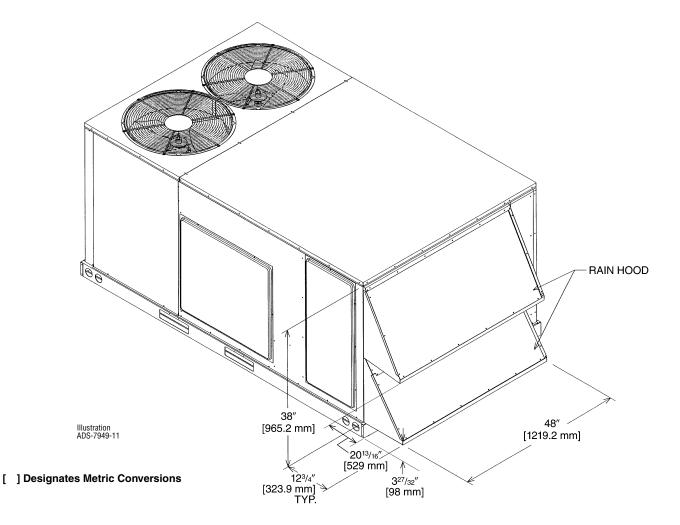
ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

Use to Select Factory Installed Options Only

RXRD-PDCM3—Single Enthalpy (Outdoor) and RXRD-SDCM3 Single Enthalpy with Smoke Detector RXRX-AV02—Dual Enthalpy Upgrade Kit RXRX-AR02—Optional Wall-Mounted CO₂ Sensor

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







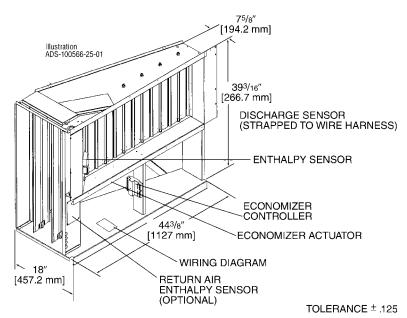
ACCESSORIES

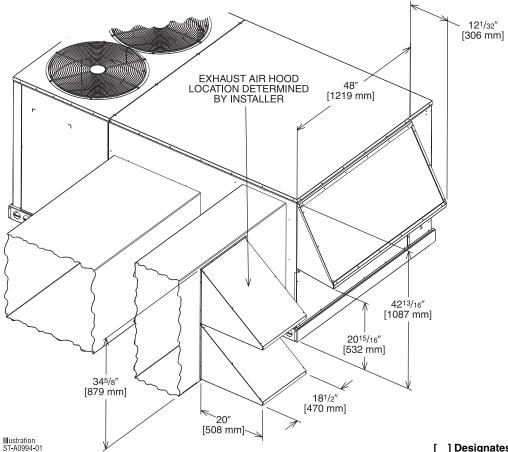
ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

Field Installed Only

RXRD-RDCM3—Single Enthalpy (Outdoor) RXRX-AV02—Dual Enthalpy Upgrade Kit RXRX-AR02—Wall-mounted CO₂ Sensor

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





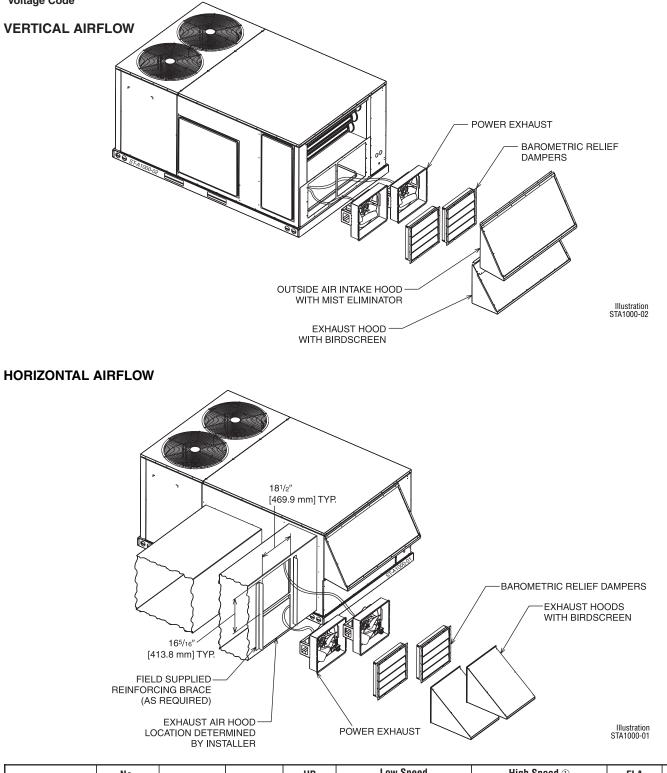
ACCESSORIES



POWER EXHAUST KIT FOR RXRD-MDCM3(-), RXRD-NDCM3(-) ECONOMIZERS

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

*Voltage Code



Model No.	No. of Fans Volts	Volte	Phase	HP (ea.)	Low Speed		High Speed ①		FLA	LRA
		VUIIS			CFM [L/s] 2	RPM	CFM [L/s] 2	RPM	(ea.)	(ea.)
RXRX-BFF02C	2	208-230	1	0.33	2200 [1038]	1518	2500 [1179]	1670	1.48	3.6
RXRX-BFF02D	2	460	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.75	1.8
RXRX-BFF02Y	2	575	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.81	1.5

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



FRESH AIR DAMPER

MOTORIZED DAMPER KIT RXRX-AW02 (Motor Kit for RXRF-KDA1)

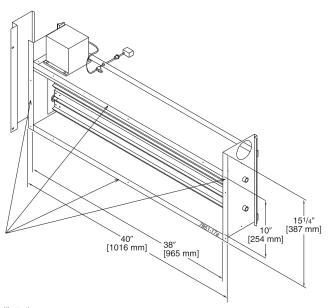
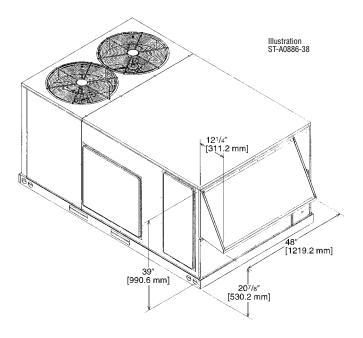


Illustration ST-7951-17

[] Designates Metric Conversions

RXRF-KDA1 (Manual)

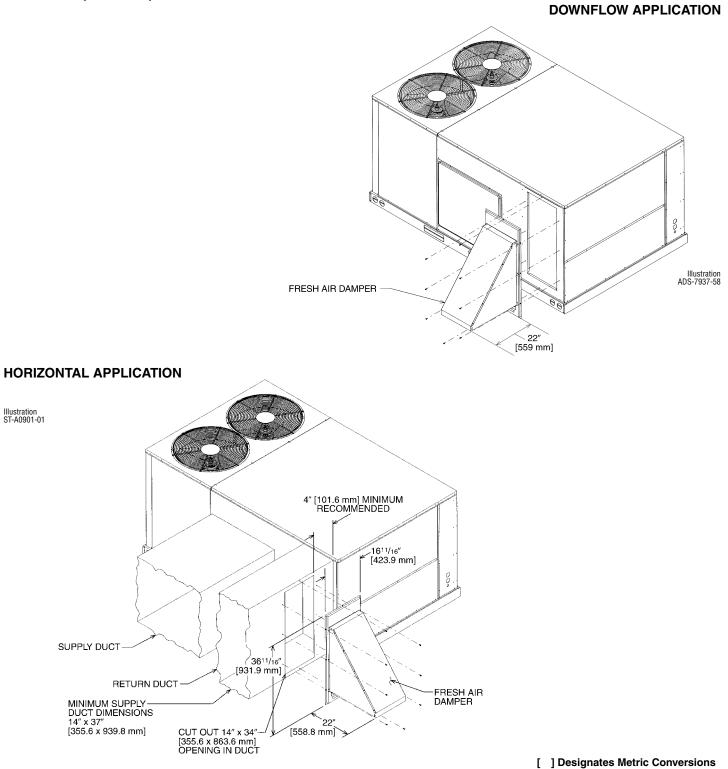
DOWNFLOW OR HORIZONTAL APPLICATION





FRESH AIR DAMPER (Cont.)

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





ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on all 7.5,10 and 12.5 ton [26.4, 35.2 and 44.0 kW] RKKL- models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening provided on the unit base pan.
- 1" [25 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (40' [12.2 m]) provided with Roofcurb.
- Packaged for easy field assembly.

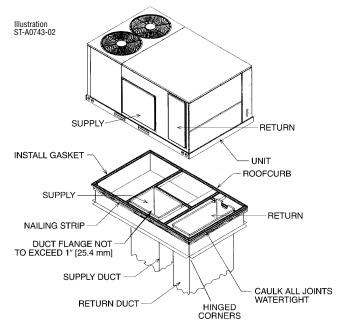
Roofcurb Model	Height of Curb
RXKG-CAE14	14" [356 mm]
RXKG-CAE24	24" [610 mm]

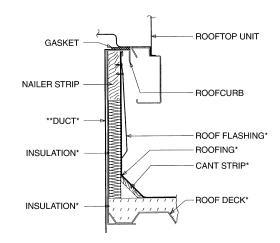
ROOFCURB INSTALLATION 53³/8″ [1355.7 mm] 88⁹/16" [2249.5 mm] 495/8" [1260.5 mm] 8413/16 [2154.3 mm] ×293/4′ 14 OR 24" 24" [355.6 OR 609.6 mm] [755.7 mm] [609.6 mm] 411/16". [1043 mm] 2013/16" Illustration [523.6 mm] ADS-102932-03-00 HINGED

CORNERS



TYPICAL INSTALLATION





*BY CONTRACTOR

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

Illustration ST-A0743-02



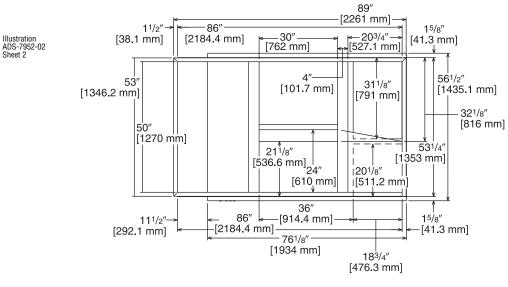
ROOFCURB ADAPTERS

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

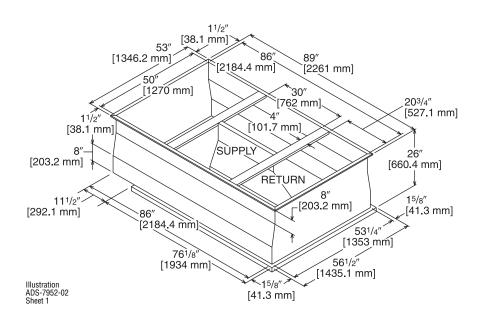
NOTE: Ductwork modifications may be necessary if the capacity and/or indoor airflow rate of replacement unit is not equivalent to that of the unit being replaced. RKKL-B090, RKKL-B120 and RKKL-B151 fit on the same curb as the RKKB-B090, RKKB-A120 and RKKB-151, RKMB-B090, RKMB-A120 and RKMB-151, RKNB-B090 and RKNB-A120.

ROOFCURB ADAPTERS (Cont.)

RXRX-CDCE50





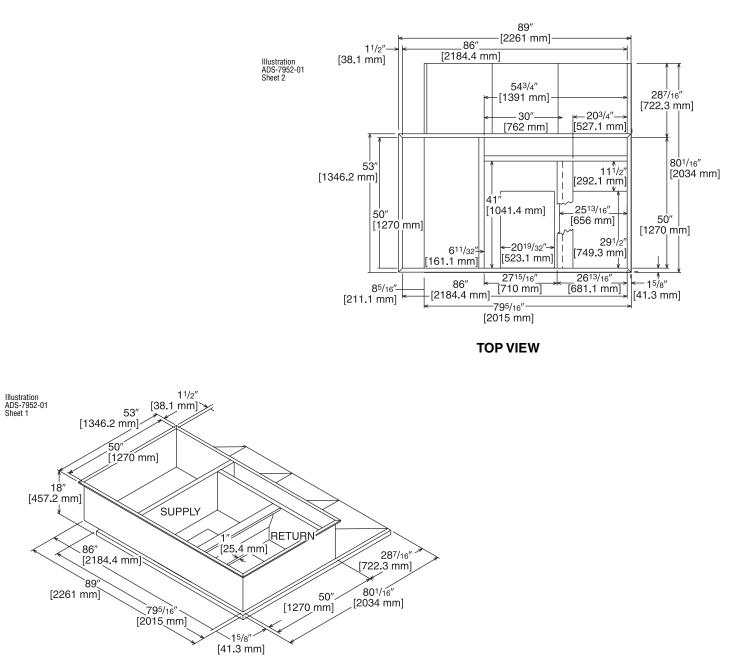


[] Designates Metric Conversions



ROOFCURB ADAPTERS (Cont.)

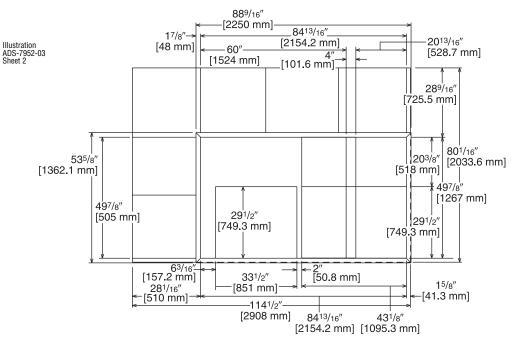
RXRX-CFCE54



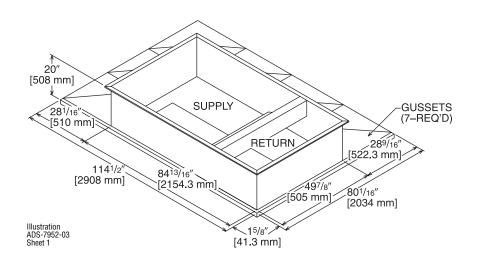


ROOFCURB ADAPTERS (Cont.)

RXRX-CFCE56



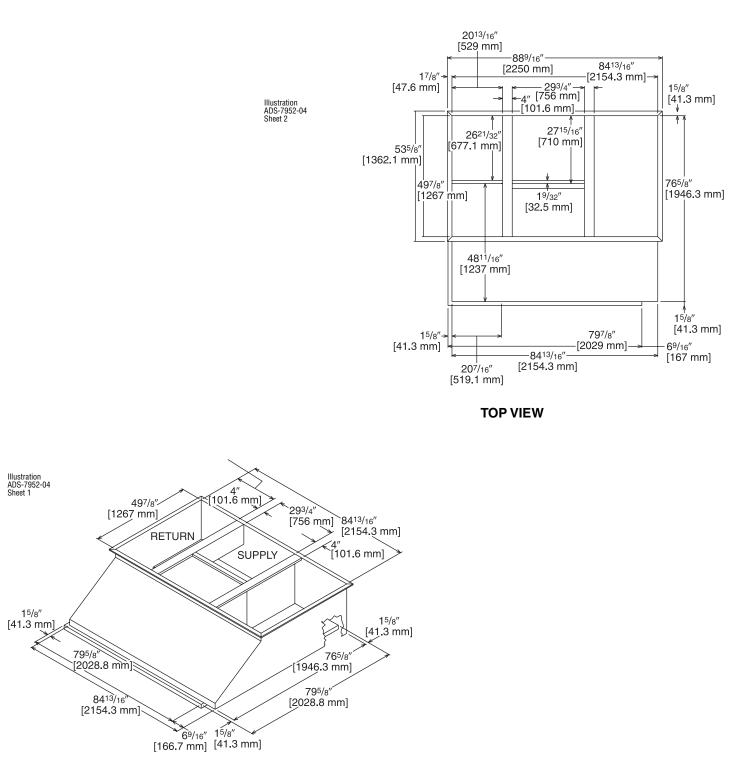
TOP VIEW





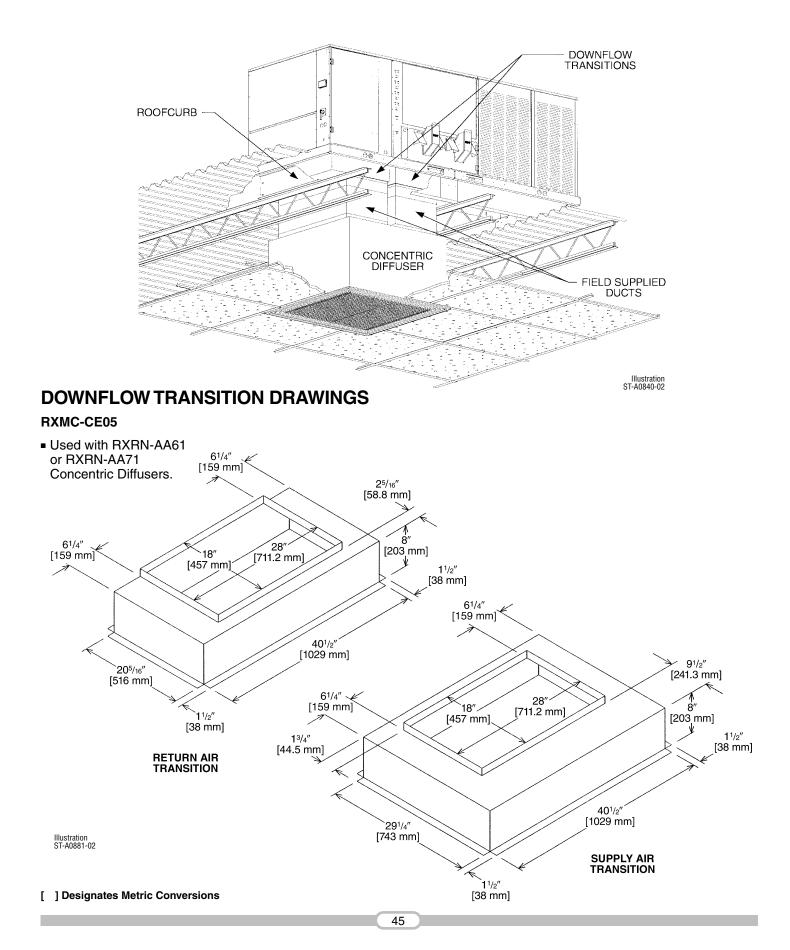
ROOFCURB ADAPTERS (Cont.)

RXRX-CGCC12





CONCENTRIC DIFFUSER APPLICATION

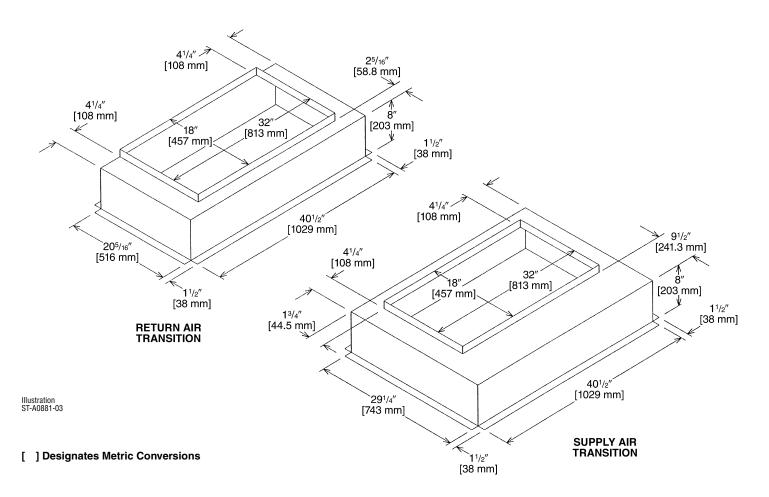




DOWNFLOW TRANSITION DRAWINGS

RXMC-CF06

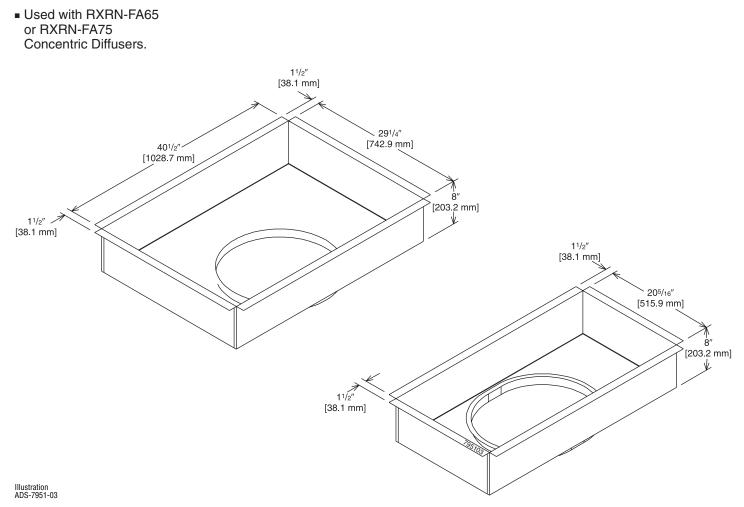
 Used with RXRN-AA66 or RXRN-AA76 Concentric Diffusers.





DOWNFLOW TRANSITION DRAWINGS

RXMC-CD04



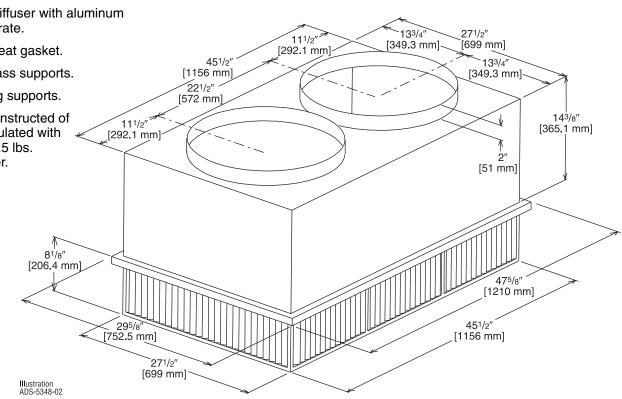


CONCENTRIC DIFFUSER—STEP DOWN

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

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

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



ENGINEERING DATA[®]

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

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

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

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

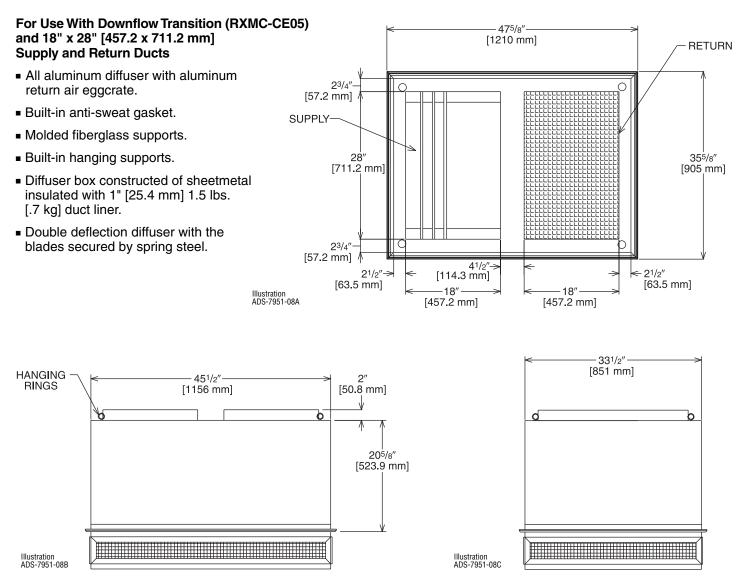
(4) Actual noise levels may vary due to duct design and do not include transmitted unit noise.

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



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

RXRN-AA61 (10 Ton [35.2] Models)



ENGINEERING DATA[®]

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

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

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

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

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

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



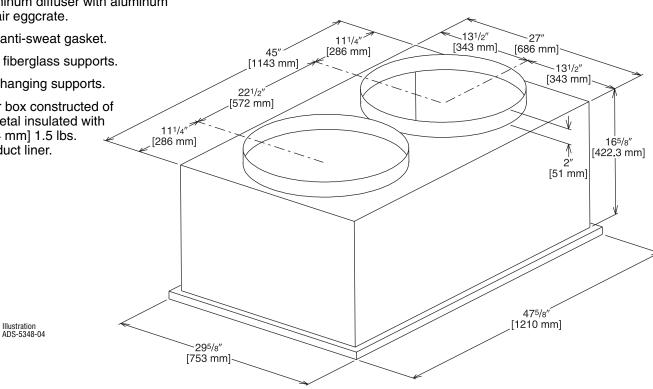
FLUSH MOUNT CONCENTRIC DIFFUSER—FLUSH

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

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

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





ENGINEERING DATA[®]

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

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

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

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

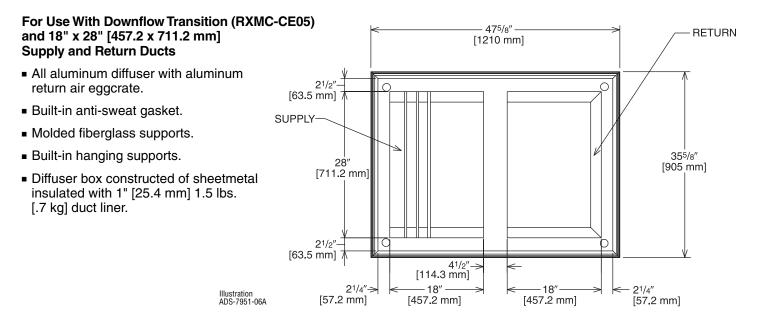
(4) Actual noise levels may vary due to duct design and do not include transmitted unit noise.

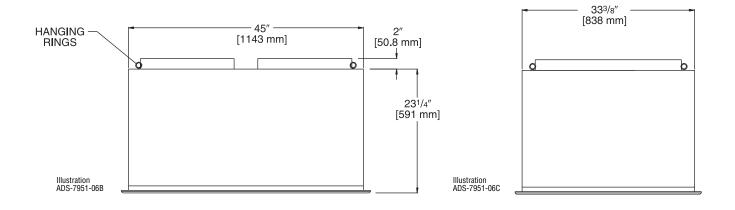
Adequate duct attenuation must be provided to reduce sound output from the unit.



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

RXRN-AA71 (10 Ton [35.2] Models)





ENGINEERING DATA[®]

Model No.	Flow Rate CFM [L/s]	Static Pressure in w.c. [kPa]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
RXRN-AA71	3600 [1699]	0.17 [0.042]	22-29 [6.7-8.8]	844 [4.3]	35
	3800 [1793]	0.18 [0.045]	22-30 [6.7-9.1]	891 [4.5]	40
	4000 [1888]	0.21 [0.052]	24-33 [7.3-10.1]	938 [4.8]	40
	4200 [1982]	0.24 [0.060]	26-35 [7.9-10.7]	985 [5.0]	40
	4400 [2076]	0.27 [0.067]	28-37 [8.5-11.3]	1032 [5.2]	40

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

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

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

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

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



Guide Specifications RKKL-B090, B120 and B151

Note about this specification: Copying this document directly into your building specification is permissible.

GAS HEAT PACKAGED ROOFTOP

HVAC Guide Specifications

Size Range: 71/2 and 10 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:

- 23 07 16.13.A. Evaporator fan compartment:
 - 1. Interior cabinet surfaces shall be insulated with a minimum 3/4-in. thick, minimum 1-1/2 lb density, flexible fiberglass insulation bonded with foil face on the air side.
 - 2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
 - 3. Insulation shall also be mechanically fastened with welded pin and retainer washer.

23 07 16.13.B. Gas heat compartment:

- 1. Aluminum foil-faced fiberglass insulation shall be used.
- 2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
- 3. Insulation shall also be mechanically fastened with welded pin and retainer washer.

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 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 13.13.A. General:
 - 1. Shall be complete with self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side (B072-B150 units have a resettable circuit breaker).
 - 2. Shall utilize color-coded wiring.
 - 3. Unit shall be include self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side with a resettable circuit breaker.
 - 4. The heat exchanger shall be controlled by an integrated furnace controller (IFC) microprocessor. See heat exchanger section of this specification.
 - 5. Unit shall include a minimum of one 8-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.

a. Units shall have low pressure, loss of charge automatic reset device that will shut off compressor when tripped.

- 3. High-pressure switch.
- a. Unit shall be equipped with high pressure switch manual reset device that will shut off compressor when tripped.
- 4. Automatic reset, motor thermal overload protector.
- 5. Heating section shall be provided with the following minimum protections:
 - a. High-temperature limit switches.
 - b. Induced draft motor pressure switch.
 - c. Flame rollout switch.
 - d. Flame proving controls.



23 09 33 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 with "no-tool" removal 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 (7.5, 10 and 12.5 Ton) 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 gas combustion for heating duty.
 - 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 90.1-2010 minimum efficiency requirements.
 - 2. 3 phase units are Energy Star qualified.
 - 3. Unit shall be rated in accordance with AHRI Standards 340/360.
 - 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 1000-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.
 - 14. Unit shake tested to assurance level 1, ASTM D4169 to ensure shipping reliability.
- 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°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 340/360 at ± 10% voltage.
 - Compressor with standard controls shall be capable of operation down to 50°F (10°C), ambient outdoor temperatures. Low
 ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 0°F (-17.7°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.
 - 6. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.



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.
 - 2. Unit cabinet exterior paint shall be: powder coat paint.
 - 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, 1-1/2 lb density, flexible fiberglass insulation, foil faced on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
 - 4. Base of unit shall have a location for thru-the-base gas and electrical connections standard.

5. Base Rail

- a. Unit shall have base rails on a minimum of 4 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 for fork truck.
- d. Base rail shall be a minimum of 14 gauge thickness.
- 6. Condensate pan and connections:
 - a. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall use a 1" 2 NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
 - d. Shall be able to be easily removed.

7. Top panel:

- a. Shall be a single piece top panel over indoor section.
- 8. Gas Connections:
 - a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base gas-line location using a continuous raised, flange around opening in the basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
- 9. Electrical Connections
 - a. All unit power wiring shall enter unit cabinet a a single, factory-prepared, continuous raised flange opening in the basepan.
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
- 10. Component access panels (standard)
 - a. Cabinet panels shall be easily opened for servicing.
 - b. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and filters shall have hinges with 1/4 turn fasteners.
 - c. 1/4 fasteners shall be permanently attached.
- 23 81 19.13.I. Gas Heat
 - 1. General
 - a. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
 - b. Shall incorporate a direct-spark ignition system and redundant main gas valve.
 - c. Heat exchanger design shall allow combustion process condensate to gravity drain; maintenance to drain the gas heat exchanger shall not be required.
 - d. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.
 - 2. The heat exchanger shall be controlled by an integrated furnace controller (IFC) microcompressor.
 - a. IFC board shall notify users of fault using and LED (light-emitting diode).
 - b. The Light Emitting Diode (LED) shall be visible without opening the control box access panel.



- 3. Standard Heat Exchanger construction
 - a. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gauge steel coated with a nominal 1.2 mil aluminum-silicone alloy for corrosion resistance.
 - b. Burners shall be of the in-shot type constructed of aluminum-coated steel.
 - c. Burners shall incorporate orifices for rated heat output up to 2000 ft (610m) elevation. Additional accessory kits may be required for applications above 2000 ft (610m) elevation, depending on local gas supply conditions.
 - d. Each heat exchanger tube shall contain tubulators for increased heating effectiveness.
- 4. Optional Stainless Steel Heat Exchanger construction
 - a. Use energy saving, direct-spark ignition system.
 - b. Use a redundant main gas valve.
 - c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
 - d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - e. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gauge type 409 stainless steel.
 - f. Type 409 stainless steel shall be used in heat exchanger tubes.
 - g. Complete stainless steel heat exchanger allows for greater application flexibility.
- 5. Induced draft combustion motor and blower
 - a. Shall be a direct-drive, single inlet, forward-curved centrifugal type.
 - b. Shall be made from steel with a corrosion-resistant finish.
 - c. Shall be permanently lubricated sealed bearings.
 - d. Shall have inherent thermal overload protection.
 - e. Shall have an automatic reset feature.
- 23 81 19.13.J. Coils
 - 1. Standard Aluminum/Copper Coils:
 - a. Standard evaporator coils shall be 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 400 psig, and qualified to UL 1995 burst test at 2,200 psi.
 - c. Micro coils. Condenser coil 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. Shall use orifice refrigerant control.
 - b. Refrigerant filter drier.
 - c. Service gauge connections on suction and discharge lines.
 - d. External pressure gauge ports access shall be located in front exterior of cabinet.
 - 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.
 - c. Compressors shall be internally protected from high discharge temperature conditions.
 - d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
 - e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal and current overload protection.
 - g. Crankcase heaters shall not be required for normal operating range.
 - h. Compressor shall have molded electrical plug.
- 23 81 19.13.L. Filter Section
 - 1. Filters access is specified in the unit cabinet section of this specification.
 - 2. Filters shall be held in place by 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 320 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.
 - c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
- 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 nd shall be dynamically balanced.

23 81 19.13.O. Special Features

- 1. Integrated Economizers:
 - 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 equipped with low-leakage dampers, not to exceed 2% leakage at 1 in. wg pressure differential.
 - g. Shall be capable of introducing up to 100% outdoor air.
 - h. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
 - i. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - j. Enthalpy sensor shall be provided as standard. Outdoor air sensor set point shall be adjustable and shall range from 40 to 100°F / 4 to 38°C. Additional sensor options shall be available as accessories.
 - k. 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%.
 - I. 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.
 - m. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - n. 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.
 - o. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - p. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
 - q. Economizer wire harness will have provision for smoke detector.
- 2. Manual damper
 - a. 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.



- 3. Liquid Propane (LP) Conversion Kit
 - a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610m) elevation.
- 4. Flue Shield
 - a. Flue shield shall provide protection from the hot sides of the gas flue hood.
- 5. Condenser Coil Hail Guard Assembly
 - a. Shall protect against damage from hail.
 - b. Shall be louvered style.
- 6. Unit-Mounted, Non-Fused Disconnect Switch:
 - a. Switch shall be factory-installed, internally mounted.
 - b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
 - c. Shall be accessible from outside the unit.
 - d. Shall provide local shutdown and lockout capability.
- 7. Convenience Outlet:
 - a. Powered convenience outlet.
 - b. Outlet shall be powered from main line power to the rooftop unit.
 - c. Outlet shall be powered from line side or load side of disconnect by installing contractor, as required by code. If outlet is powered from load side of disconnect, unit electrical ratings shall be UL certified and rated for additional outlet amperage.
 - d. Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
 - e. Outlet shall include 15 amp GFI receptacles with independent fuse protection.
 - f. Voltage required to operate convenience outlet shall be provided by a factory-installed step-down transformer.
 - g. Outlet shall be accessible from outside the unit.
 - h. Non-Powered convenience outlet.
 - i. Outlet shall be powered from a separate 115-120v power source.
 - j. A transformer shall not be included.
 - k. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
 - I. Outlet shall include 15 amp GFI receptacle with independent fuse protection.
 - m. Outlet shall be accessible from outside the unit.
- 8. Flue Discharge Deflector:
 - a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
 - b. Deflector shall be defined as a "natural draft" device by the National Fuel and Gas (NFG) code.
- 9. 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.
- 10. Roof Curbs (Vertical):
 - a. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - b. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
- 11. Universal Gas Conversion Kit:
 - a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit to operate from 2000-7000 ft (610 to 2134m) elevation with natural gas or from 0-7000 ft (90-2134m) elevation with liquefied propane.
- 12. 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.
- 13. 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 duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.

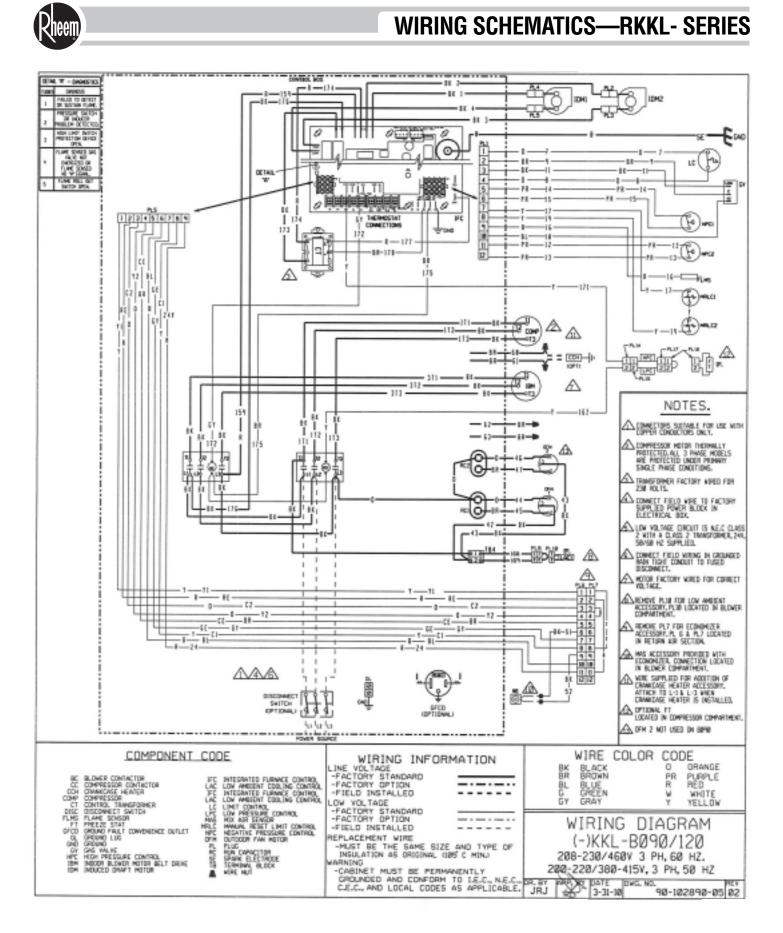


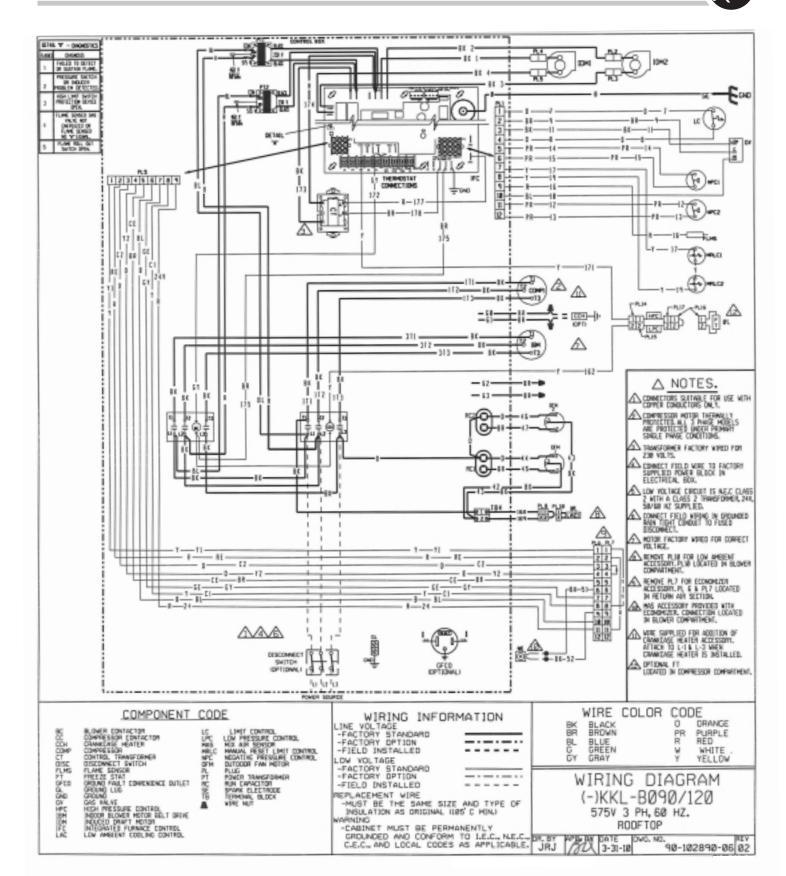
14. Smoke detectors:

- 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.

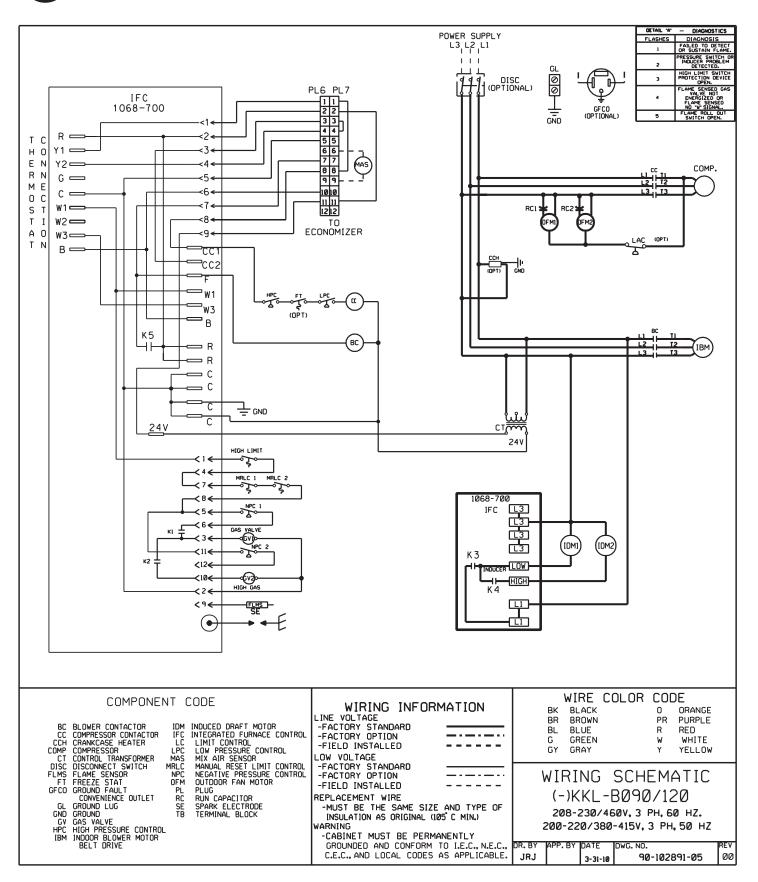
15. Barometric relief

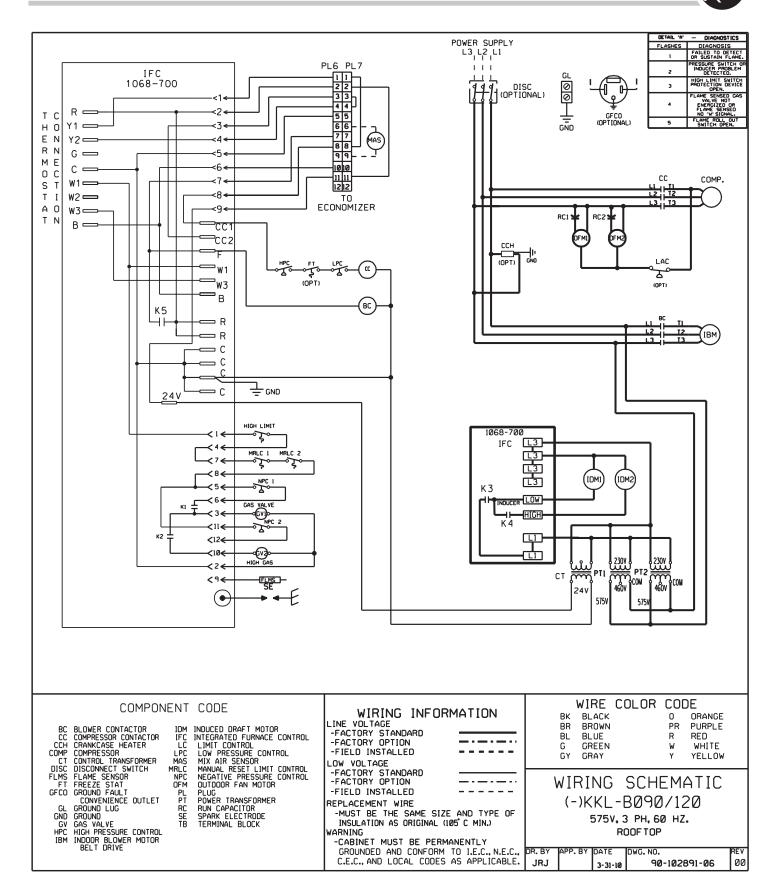
- a. Shall include damper, seals, hard-ware, and hoods to relieve excess building pressure.
- b. Damper shall gravity-close upon shutdown.
- 16. Time Guard
 - a. Shall prevent compressor short cycling by providing a 5-minute delay (±2 minutes) before restarting a compressor after shutdown for any reason.
 - b. One device shall be required per compressor.



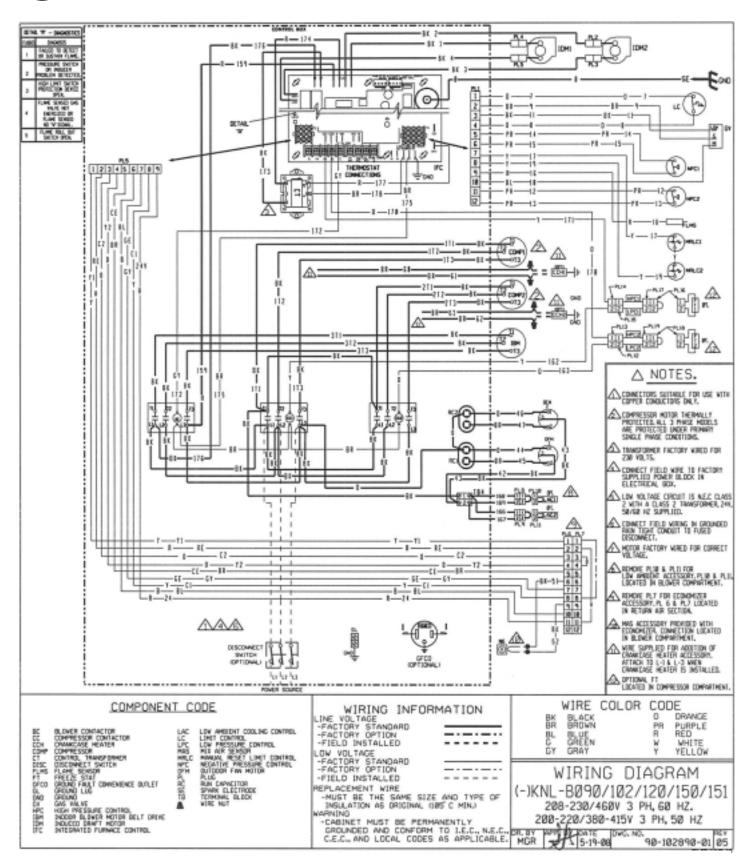


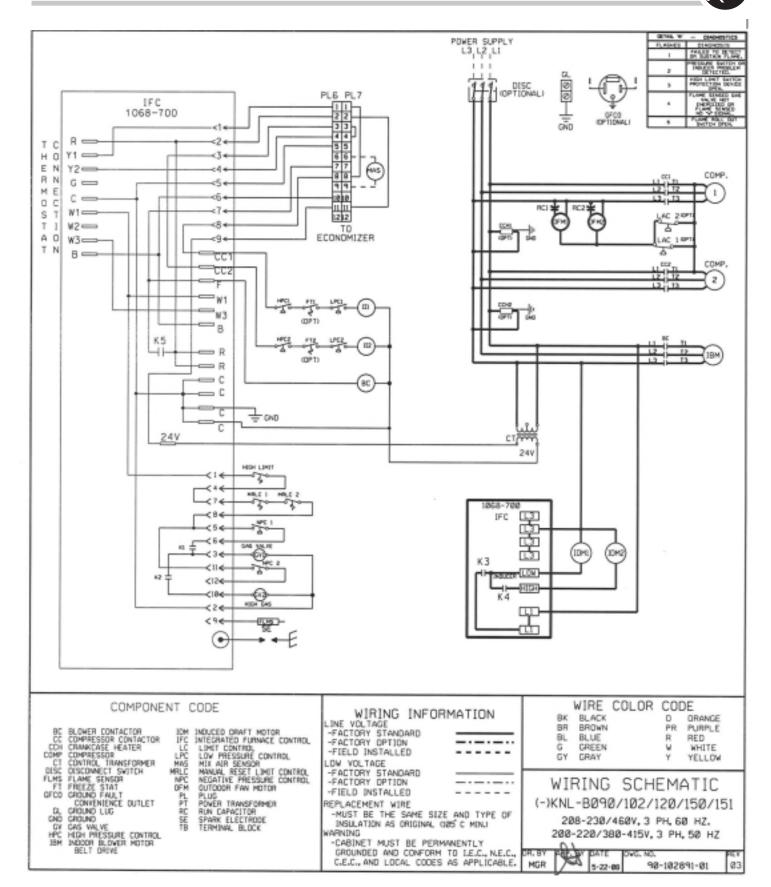




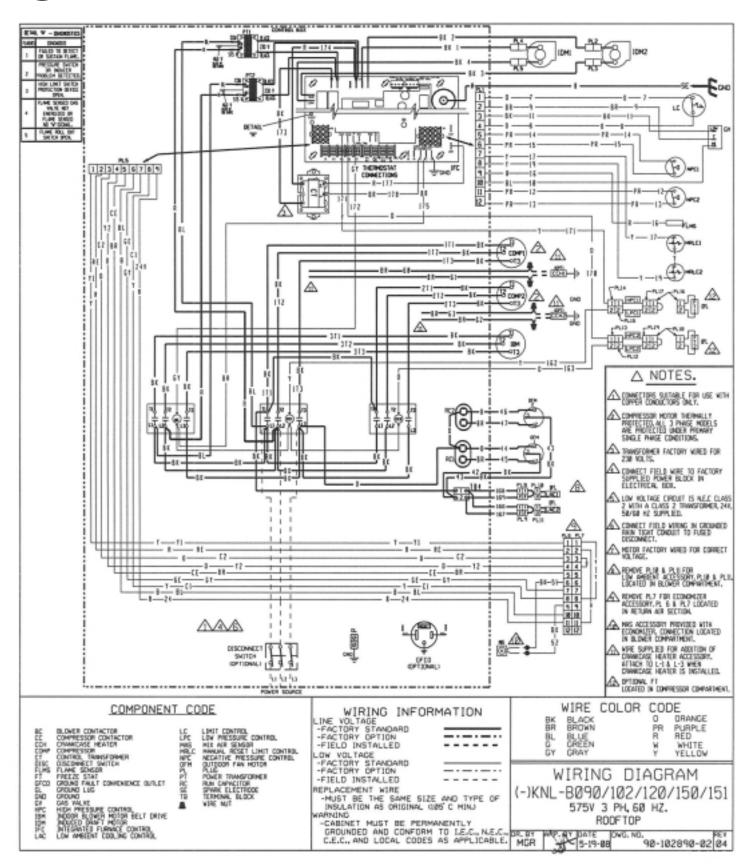


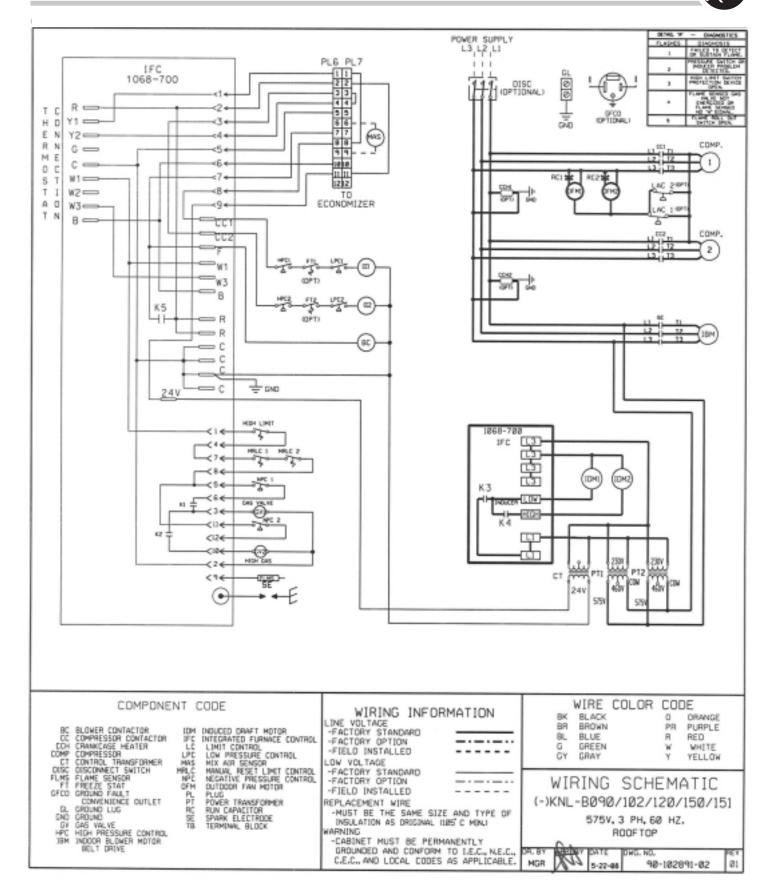














NOTES

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

GENERAL TERMS OF LIMITED WARRANTY

Rheem 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.

Heat ExchangerTen (10) Years For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for

Condenser Coil and Evaporator Coil leaks			
caused by factory defects	One (1) Year		
Compressor	Five (5) Years		
*Any Other Part			
*All other parts and components carry a limited warranty of five years.			

*ļ provided they are single-phase products installed in a residential application.

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.

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Rheem Heating, **Cooling and** Water Heating

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