



PACKAGE GAS / ELECTRIC ROOFTOP UNITS

FORM NO. R11-836 REV. 3
Supersedes Form No. R11-836 Rev. 2

RKKB- STANDARD EFFICIENCY SERIES
NOMINAL SIZES 15-25 TONS [52.8-87.9 kW]
ASHRAE 90.1-1989 COMPLIANT MODELS

RKMB- HIGH EFFICIENCY SERIES
NOMINAL SIZES 15 & 20 TONS [52.8 & 70.3 kW]
ASHRAE 90.1-1999 COMPLIANT MODELS

RKNB- SUPER HIGH EFFICIENCY SERIES
NOMINAL SIZE 15 TON [52.8 kW]
ENERGYSTAR COMPLIANT MODEL

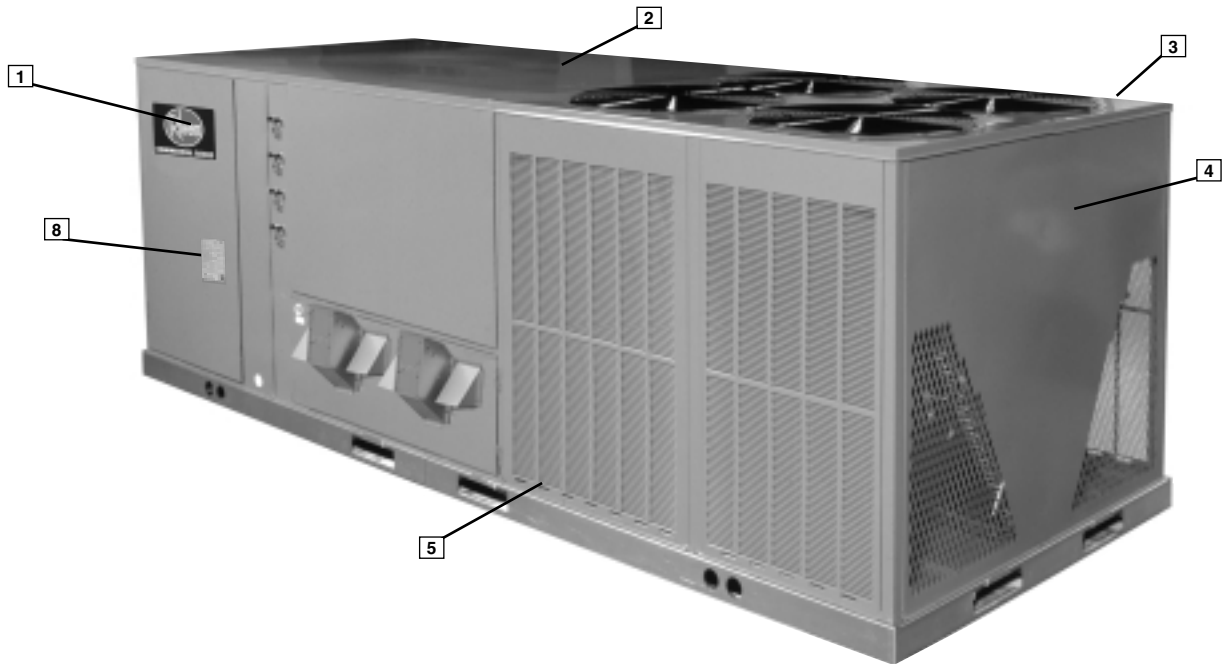




Unit Features & Benefits	3-6
Selection Procedure	7
Model Identification Options	8-9
General Data	
RKKB- Series	10-18
RKMB- Series	19-24
RKNB- Series	25-27
General Data Notes	28
Performance Data	
RKKB- Series	29-30
RKMB- Series.....	31
RKNB- Series.....	32
Airflow Performance	
RKKB- Series	33-34
RKMB- Series	33-34
RKNB- Series.....	33
Electrical Data	
RKKB- Series	35-36
RKMB- Series	37-38
RKNB- Series	39-40
Dimensional Data	41-44
Accessories	45-57
Mechanical Specifications	58-59
Typical Wiring	60-65
Limited Warranty	68



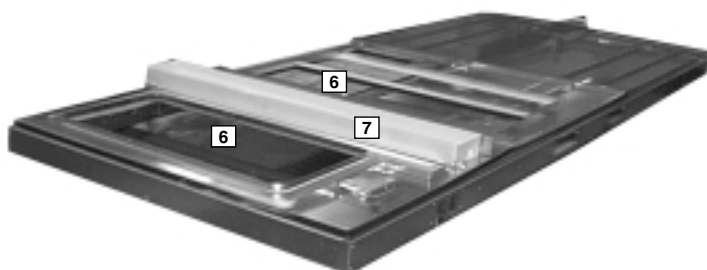
UNIT FEATURES & BENEFITS—RKKB/RKMB/RKNB- SERIES



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

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

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

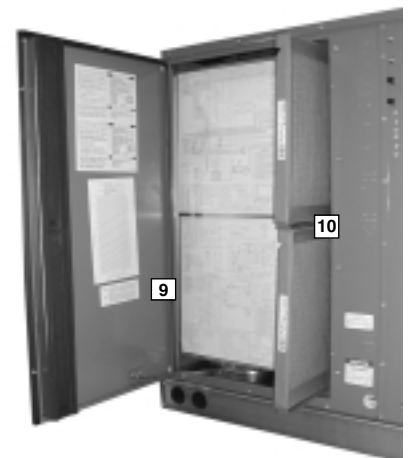


During development, each unit was tested to U.L. 1995, ANSI 21.47, ARI 340-370 and other Rheem-required reliability tests. Rheem adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and ARI certification labels located on the unit nameplate (8). Contractors can rest assured that when a Rheem package unit arrives at the job, it is ready to go with a factory charge and quality checks. Each unit also proudly displays the "Made in the USA" designation.

Access to all major compartments is from the front of the unit, including the filter and electrical compartment, blower compartment, 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, tool-less, hinged-access panel. On the outside of the panel is the unit nameplate, which contains the model and serial number, electrical data and other important unit information.

The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having this information on the inside will assure model identification for the life of the product. The production line quality test assurance label is also placed in this location (9). The two-inch throwaway filters (10) are easily removed on a tracked system for easy replacement.





Inside the control box (11), each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The 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 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 high-voltage terminal block. The suggested mounting for the field-installed disconnect is on the exterior side of the electrical control box.



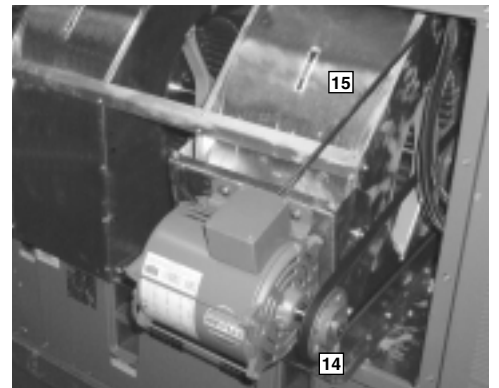
To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection (13). With the gauge ports mounted externally, an



accurate diagnostic of system operation can be performed quickly and easily.

The blower compartment is to the right of the gauge ports and can be accessed by removing 5/16" washer-head screws. This panel is not hinged to assure a water-tight fit with the unit. 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 quiet and efficient airflow.

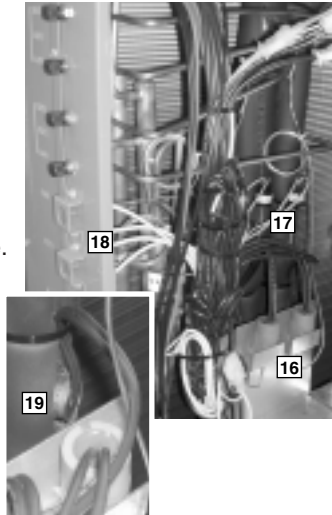
The blower sheave is secured by an "H" bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which can score the shaft, creating burrs that make blower-pulley removal difficult.





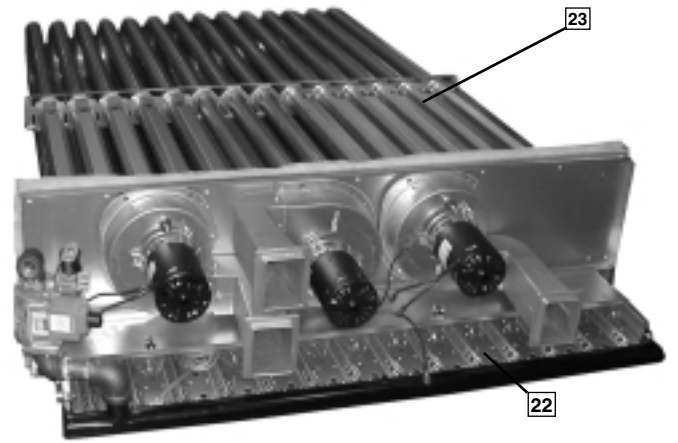
UNIT FEATURES & BENEFITS—RKKB/RKMB/RKNB- SERIES

Also inside the blower compartment is the low-ambient control (16), low-pressure switch (17), high-pressure switch (18) and freeze stat refrigerant safety device (19). The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch will shut off the compressors if pressures exceeds, 450 PSIG are detected, this may occur if the outdoor fan motor fails. The low-pressure switch shuts off the compressors if low pressure is detected due to loss of charge. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow. Each factory-installed option is brazed into the appropriate high or low side and wired appropriately. Use of polarized plugs and sharder fittings allow for easy field installation.



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

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

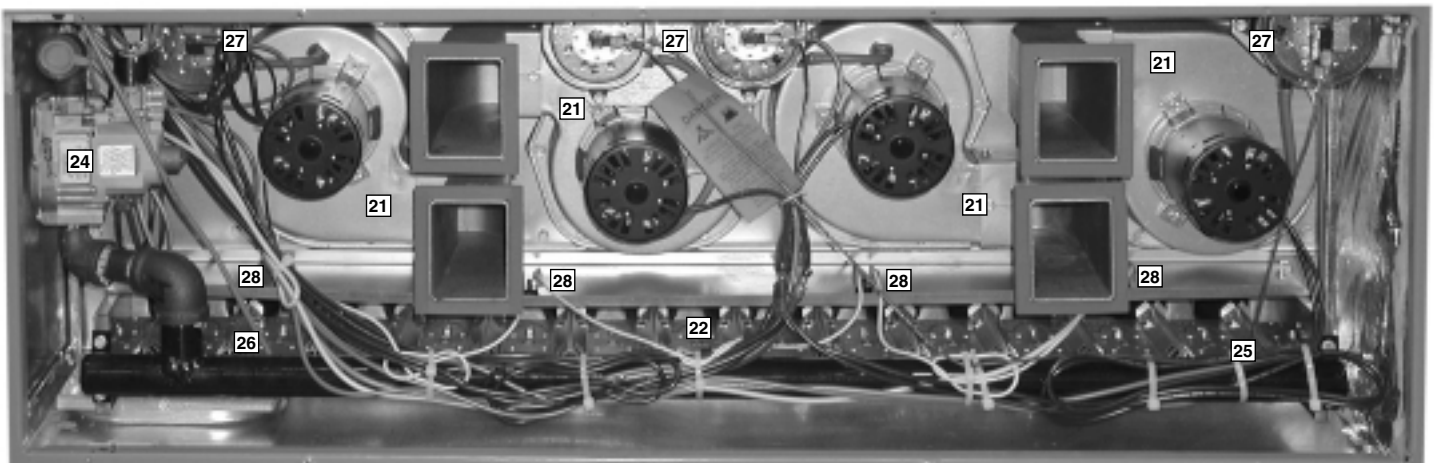


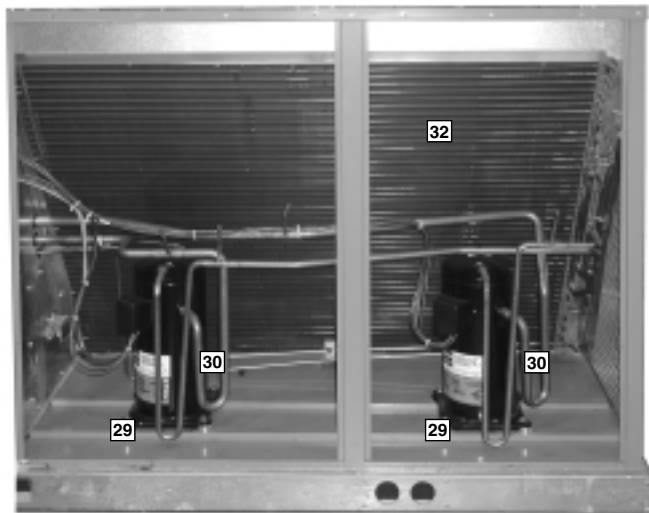
The furnace compartment contains the latest furnace technology on the market. The draft inducers (21) draw the flame from the Rheem exclusive in-shot burners (22) into the aluminized tubular heat exchanger (23) for clean, efficient gas heat. Stainless steel heat exchangers can be factory installed for those applications that have high fresh-air requirements, or applications in corrosive environments. Each furnace is equipped with a two-stage gas valve (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 compressor and circuit is independent for built-in redundancy, and each circuit is clearly marked throughout the system. Each unit has two stages of efficient cooling operation, first stage is approximately 50% of second stage.

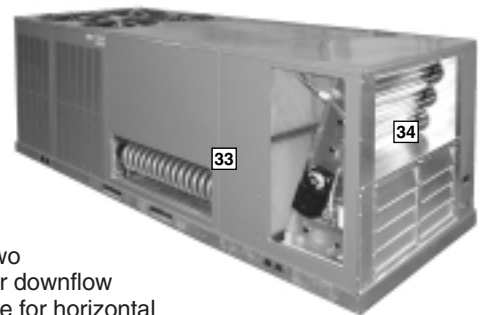
The condenser fan motor (31) can easily be accessed and maintained by removing the protective fan grille. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

The outdoor coil uses the latest enhanced fin design (32) for the most effective method of heat transfer. The outdoor coil is protected by louvered panels, which allow unobstructed airflow while protecting the unit from both Mother Nature and vandalism.

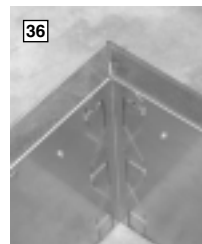
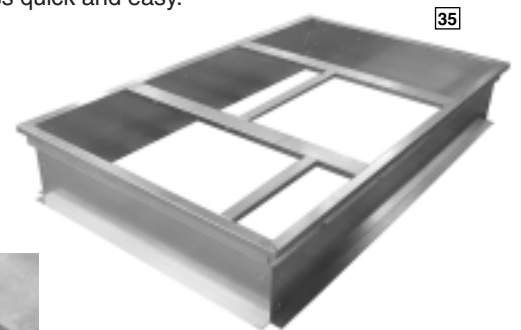


Each unit is designed for both downflow or horizontal applications (33) for job configuration flexibility.

The return air compartment can also contain an economizer (34). Two models exist, one for downflow applications, and one for horizontal applications. Each unit is pre-wired for the economizer to allow quick plug-in installation. The economizer is also available as a factory-installed option. Power Exhaust is easily field-installed. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field. The economizer control has a minimum position setpoint, an outdoor-air setpoint, a mix-air setpoint, and a 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 Rheem roofcurb (35) is made for toolless assembly at the jobsite by sequentially engaging the corner brackets into the adjacent curb sides (36), which makes the assembly process quick and easy.





SELECTION PROCEDURE EXAMPLE—RKKB/RKMB/RKNB- SERIES

To select an RKKB- 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—	205,000 BTUH [60.1 kW]
Sensible cooling capacity—	155,000 BTUH [45.4 kW]
Heating capacity—	235,000 BTUH [68.9 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)—	7200 CFM [3398 L/s]
*External Static Pressure—	.70 in. WG

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 20 ton [70.3 kW] unit, enter cooling performance table at 95°F [35°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 7400 CFM [1888 L/s] indoor air flow (table basis):

Total Capacity = 232,700 BTUH [68.2 kW]
Sensible Capacity = 186,500 BTUH [54.66 kW]
Power Input (Compressor and Cond. Fans) = 21,600 watts

Use formula in note ① to determine sensible capacity at 78°F [26°C] DB evaporator entering air:

Sensible Capacity = 172,500 BTUH [50.55 kW]

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

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

Total Capacity, 232,700 x .995 = 231,540 BTUH [67.86 kW]
Sensible Capacity, 172,500 x .987 = 170,260 BTUH [49.90 kW]
Power Input 21,600 x .999 = 21,578 Watts

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

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

Enter Indoor Blower performance table at 7200 CFM [3398 L/s]. Total ESP (external static pressure) per the spec of .70 in. includes the system duct and grilles. Add from the table "Component Air Resistance," .15 for wet coil, .05 for downflow air flow, for a total selection static pressure of .900 (.9) inches of water, and determine:

RPM = 942
WATTS = 4,717
DRIVE = M (standard 7.5 H.P. motor)

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

$$\text{BTUH} = 4,717 \times 3.412 = 16,094$$

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

$$\begin{aligned} \text{Net Total Capacity} &= 231,540 - 16,094 = \\ &215,446 \text{ BTUH [63.14 kW]} \\ \text{Net Sensible Capacity} &= 170,260 - 16,094 = \\ &154,166 \text{ BTUH [45.18 kW]} \end{aligned}$$

7. CALCULATE UNIT INPUT AND JOB EER.

$$\begin{aligned} \text{Total Power Input} &= 21,578 \text{ (step 3)} + 4,717 \\ &\text{(step 4)} = 26,295 \text{ Watts} \end{aligned}$$

$$\text{EER} = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{215,446}{26,295} = 8.19$$

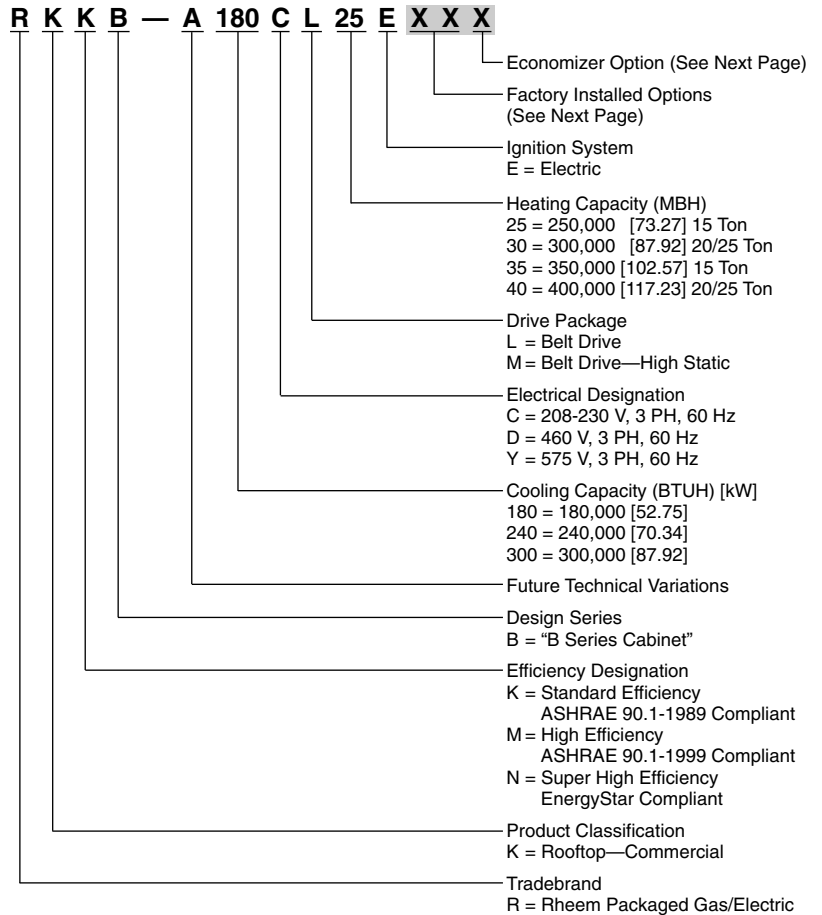
8. SELECT UNIT HEATING CAPACITY.

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

$$\text{Heating Capacity} = 243,000 \text{ BTUH [71.2 kW]}$$

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

[] Designates Metric Conversions



[] Designates Metric Conversions



FACTORY INSTALLED OPTION CODES FOR RKKB, RKMB & RKNB

Option Code	Low Ambient Time Delay Freeze Stat	Unwired Convenience Outlet	Stainless Steel Heat Exchanger
		Unfused Services Discount	
AA		No Options	
AF	X		
AH		X	
AJ			X
BN	X	X	
PB	X		X
CL	X	X	X

"x" indicates factory installed option.

ECONOMIZER SELECTION FOR RKKB, RKMB & RKNB

	No Economizer	Single Enthalpy Economizer With Barometric Relief
A	X	
B		X

"x" indicates factory installed option.

Instructions for Factory Installed Option(s) Selection

Note: Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.

Step 1. After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE.

Proceed to Step 2.

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

Example: RKKB-A240CL40E**XX** (where **XX** is factory installed option)

Example: No Options

RKKB-A240CL40E

Example: No option with factory installed economizer

RKKB-A240CL40EAAB

Example: Options with low ambient, time delay and freeze stat, unwired convenience outlet, unfused service disconnect, and stainless steel heat exchanger with no factory installed economizer

RKKB-A240CL40ECLA

Example: Options same as above with factory installed economizer

RKKB-A240CL40ECLB



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A180CL25E	A180CL35E	A180CM25E	A180CM35E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER ²	9/NA	9/NA	9/NA	9/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value ³	9.9	9.9	9.9	9.9
Net System Power kW	20	20	20	20
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type				
Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1790 [812]	1817 [824]	1820 [826]	1847 [838]
Ship Weight lbs. [kg]	2010 [912]	2037 [924]	2040 [925]	2067 [938]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A180DL25E	A180DL35E	A180DM25E	A180DM35E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER ²	9/NA	9/NA	9/NA	9/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value ³	9.9	9.9	9.9	9.9
Net System Power kW	20	20	20	20
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	3	3	5	5
Motor Frame Size	1725	1725	1725	1725
	56	56	184	184
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1806 [819]	1841 [835]	1836 [833]	1871 [849]
Ship Weight lbs. [kg]	2026 [919]	2061 [935]	2056 [933]	2091 [948]

CONTINUED →

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A180YL25E	A180YL35E	A180YM25E	A180YM35E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER ²	9/NA	9/NA	9/NA	9/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value ³	9.9	9.9	9.9	9.9
Net System Power kW	20	20	20	20
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type				
Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1806 [819]	1817 [824]	1836 [833]	1871 [849]
Ship Weight lbs. [kg]	2026 [919]	2037 [924]	2056 [933]	2091 [948]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A240CL30E	A240CL40E	A240CM30E	A240CM40E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]
EER/SEER ²	8.7/NA	8.7/NA	8.7/NA	8.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]
ARI Net Cooling Capacity Btu [kW]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]
Net Sensible Capacity Btu [kW]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value ³	8.8	8.8	8.8	8.8
Net System Power kW	26.2	26.2	26.2	26.2
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	5	5	7.5	7.5
Motor Frame Size	1725	1725	1725	1725
	184	184	213	213
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]
Weights				
Net Weight lbs. [kg]	1884 [855]	1900 [862]	1906 [865]	1922 [872]
Ship Weight lbs. [kg]	2104 [954]	2120 [962]	2126 [964]	2142 [972]

CONTINUED →

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A240DL30E	A240DL40E	A240DM30E	A240DM40E
Cooling Performance¹				
CONTINUED →				
Gross Cooling Capacity Btu [kW]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]
EER/SEER ²	8.7/NA	8.7/NA	8.7/NA	8.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]
ARI Net Cooling Capacity Btu [kW]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]
Net Sensible Capacity Btu [kW]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value ³	8.8	8.8	8.8	8.8
Net System Power kW	26.2	26.2	26.2	26.2
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	5	7.5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	213
Filter—Type				
Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]
Weights				
Net Weight lbs. [kg]	1908 [865]	1932 [876]	1930 [875]	1954 [886]
Ship Weight lbs. [kg]	2128 [965]	2152 [976]	2150 [975]	2174 [986]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A240YL30E	A240YL40E	A240YM30E	A240YM40E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]
EER/SEER ²	8.7/NA	8.7/NA	8.7/NA	8.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]
ARI Net Cooling Capacity Btu [kW]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]
Net Sensible Capacity Btu [kW]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value ³	8.8	8.8	8.8	8.8
Net System Power kW	26.2	26.2	26.2	26.2
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	5	5	7.5	7.5
Motor Frame Size	1725	1725	1725	1725
	184	184	213	213
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]
Weights				
Net Weight lbs. [kg]	1908 [865]	1932 [876]	1930 [875]	1954 [886]
Ship Weight lbs. [kg]	2128 [965]	2152 [976]	2150 [975]	2174 [986]

CONTINUED →

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A300CL30E	A300CL40E	A300CM30E	A300CM40E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]
EER/SEER ²	8.9/NA	8.9/NA	8.9/NA	8.9/NA
Nominal CFM/ARI Rated CFM [L/s]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]
ARI Net Cooling Capacity Btu [kW]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]
Net Sensible Capacity Btu [kW]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]
Net Latent Capacity Btu [kW]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]
Integrated Part Load Value ³	9	9	9	9
Net System Power kW	31.7	31.7	31.7	31.7
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	92	92	92	92
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	5	7.5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	213
Filter—Type				
Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]
Weights				
Net Weight lbs. [kg]	2037 [924]	2053 [931]	2059 [934]	2075 [941]
Ship Weight lbs. [kg]	2257 [1024]	2273 [1031]	2279 [1034]	2295 [1041]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A300DL30E	A300DL40E	A300DM30E	A300DM40E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]
EER/SEER ²	8.9/NA	8.9/NA	8.9/NA	8.9/NA
Nominal CFM/ARI Rated CFM [L/s]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]
ARI Net Cooling Capacity Btu [kW]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]
Net Sensible Capacity Btu [kW]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]
Net Latent Capacity Btu [kW]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]
Integrated Part Load Value ³	9	9	9	9
Net System Power kW	31.7	31.7	31.7	31.7
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	92	92	92	92
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	5	5	7.5	7.5
Motor Frame Size	1725	1725	1725	1725
	184	184	213	213
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]
Weights				
Net Weight lbs. [kg]	2061 [935]	2085 [946]	2083 [945]	2107 [956]
Ship Weight lbs. [kg]	2281 [1035]	2305 [1046]	2303 [1045]	2327 [1056]

CONTINUED →

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RKKB- Series	A300YL30E	A300YL40E	A300YM30E	A300YM40E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]
EER/SEER ²	8.9/NA	8.9/NA	8.9/NA	8.9/NA
Nominal CFM/ARI Rated CFM [L/s]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]
ARI Net Cooling Capacity Btu [kW]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]
Net Sensible Capacity Btu [kW]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]
Net Latent Capacity Btu [kW]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]
Integrated Part Load Value ³	9	9	9	9
Net System Power kW	31.7	31.7	31.7	31.7
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	92	92	92	92
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	5	7.5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	213
Filter—Type				
Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]
Weights				
Net Weight lbs. [kg]	2061 [935]	2085 [946]	2083 [945]	2107 [956]
Ship Weight lbs. [kg]	2281 [1035]	2305 [1046]	2303 [1045]	2327 [1056]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RKMB- Series	A180CL25E	A180CL35E	A180CM25E	A180CM35E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER ²	10.2/NA	10.2/NA	10.2/NA	10.2/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value ³	10.4	10.4	10.4	10.4
Net System Power kW	17.6	17.6	17.6	17.6
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type				
	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1790 [812]	1817 [824]	1820 [826]	1847 [838]
Ship Weight lbs. [kg]	2010 [912]	2037 [924]	2040 [925]	2067 [938]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RKMB- Series	A180DL25E	A180DL35E	A180DM25E	A180DM35E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER ²	10.2/NA	10.2/NA	10.2/NA	10.2/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value ³	10.4	10.4	10.4	10.4
Net System Power kW	17.6	17.6	17.6	17.6
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	3	3	5	5
Motor Frame Size	1725	1725	1725	1725
	56	56	184	184
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1806 [819]	1841 [835]	1836 [833]	1871 [849]
Ship Weight lbs. [kg]	2026 [919]	2061 [935]	2056 [933]	2091 [948]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RKMB- Series	A180YL25E	A180YL35E	A180YM25E	A180YM35E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER ²	10.2/NA	10.2/NA	10.2/NA	10.2/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value ³	10.4	10.4	10.4	10.4
Net System Power kW	17.6	17.6	17.6	17.6
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	3	3	5	5
Motor Frame Size	1725	1725	1725	1725
	56	56	184	184
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1806 [819]	1841 [835]	1836 [833]	1871 [849]
Ship Weight lbs. [kg]	2026 [919]	2061 [935]	2056 [933]	2091 [948]

CONTINUED →

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RKMB- Series	A240CL30E	A240CL40E	A240CM30E	A240CM40E
Cooling Performance¹				
CONTINUED →				
Gross Cooling Capacity Btu [kW]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]
EER/SEER ²	9.7/NA	9.7/NA	9.7/NA	9.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]
ARI Net Cooling Capacity Btu [kW]	232,000 [68]	232,000 [68]	232,000 [68]	232,000 [68]
Net Sensible Capacity Btu [kW]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value ³	9.9	9.9	9.9	9.9
Net System Power kW	23.9	23.9	23.9	23.9
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	5	7.5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	213
Filter—Type				
Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	117/107 [3317/3033]	117/107 [3317/3033]	117/107 [3317/3033]	117/107 [3317/3033]
Weights				
Net Weight lbs. [kg]	1972 [894]	1988 [902]	1994 [904]	2010 [912]
Ship Weight lbs. [kg]	2192 [994]	2208 [1002]	2214 [1004]	2230 [1012]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RKMB- Series	A240DL30E	A240DL40E	A240DM30E	A240DM40E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]
EER/SEER ²	9.7/NA	9.7/NA	9.7/NA	9.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]
ARI Net Cooling Capacity Btu [kW]	232,000 [68]	232,000 [68]	232,000 [68]	232,000 [68]
Net Sensible Capacity Btu [kW]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value ³	9.9	9.9	9.9	9.9
Net System Power kW	23.9	23.9	23.9	23.9
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	5	5	7.5	7.5
Motor Frame Size	1725	1725	1725	1725
	184	184	213	213
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	117/107 [3317/3033]	117/107 [3317/3033]	117/107 [3317/3033]	117/107 [3317/3033]
Weights				
Net Weight lbs. [kg]	1996 [905]	2020 [916]	2018 [915]	2042 [926]
Ship Weight lbs. [kg]	2216 [1005]	2240 [1016]	2238 [1015]	2262 [1026]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RKMB- Series	A240YL30E	A240YL40E	A240YM30E	A240YM40E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]
EER/SEER ²	9.7/NA	9.7/NA	9.7/NA	9.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]
ARI Net Cooling Capacity Btu [kW]	232,000 [68]	232,000 [68]	232,000 [68]	232,000 [68]
Net Sensible Capacity Btu [kW]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value ³	9.9	9.9	9.9	9.9
Net System Power kW	23.9	23.9	23.9	23.9
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]	150,000/300,000 [44/87.9]	200,000/400,000 [58.6/117.2]
Heating Output Btu [kW] (1st Stage /2nd Stage)	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]	121,500/243,000 [35.6/71.2]	162,000/324,000 [47.5/94.9]
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]
Steady State Efficiency (%)	81	81	81	81
No. Burners	12	14	12	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]	0.75 [19.05]
Compressor				
No./Type	4/Scroll	4/Scroll	4/Scroll	4/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	5	7.5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	184	213	213
Filter—Type				
Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	117/107 [3317/3033]	117/107 [3317/3033]	117/107 [3317/3033]	117/107 [3317/3033]
Weights				
Net Weight lbs. [kg]	1996 [905]	2020 [916]	2018 [915]	2042 [926]
Ship Weight lbs. [kg]	2216 [1005]	2240 [1016]	2238 [1015]	2262 [1026]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZE 15 TON [52.8 kW] ENERGYSTAR COMPLIANT MODEL

Model RKNB- Series	A180CL25E	A180CL35E	A180CM25E	A180CM35E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
EER/SEER ²	11.5/NA	11.5/NA	11.5/NA	11.5/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]
ARI Net Cooling Capacity Btu [kW]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]
Net Sensible Capacity Btu [kW]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]
Net Latent Capacity Btu [kW]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]
Integrated Part Load Value ³	12.1	12.1	12.1	12.1
Net System Power kW	15.3	15.3	15.3	15.3
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	.75 [19.05]	.75 [19.05]	.75 [19.05]	.75 [19.05]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
Motor RPM	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
	1075	1075	1075	1075
Indoor Fan—Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type/No. Speeds	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]
No. Motors	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
Motor HP	1	1	1	1
Motor RPM	3	3	5	5
Motor Frame Size	1725	1725	1725	1725
	56	56	184	184
Filter—Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(No.) Size Recommended in. [mm]	Yes	Yes	Yes	Yes
	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]
Weights				
Net Weight lbs. [kg]	1853 [841]	1878 [852]	1880 [853]	1904 [864]
Ship Weight lbs. [kg]	2074 [941]	2098 [952]	2100 [953]	2124 [964]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZE 15 TON [52.8 kW] ENERGYSTAR COMPLIANT MODEL

Model RKNB- Series	A180DL25E	A180DL35E	A180DM25E	A180DM35E
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
EER/SEER ²	11.5/NA	11.5/NA	11.5/NA	11.5/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]
ARI Net Cooling Capacity Btu [kW]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]
Net Sensible Capacity Btu [kW]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]
Net Latent Capacity Btu [kW]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]
Integrated Part Load Value ³	12.1	12.1	12.1	12.1
Net System Power kW	15.3	15.3	15.3	15.3
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	.75 [19.05]	.75 [19.05]	.75 [19.05]	.75 [19.05]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]
Weights				
Net Weight lbs. [kg]	1853 [841]	1878 [852]	1880 [853]	1904 [864]
Ship Weight lbs. [kg]	2074 [941]	2098 [952]	2100 [953]	2124 [964]

See Page 28 for Notes.

[] Designates Metric Conversions



NOM. SIZE 15 TON [52.8 kW] ENERGYSTAR COMPLIANT MODEL

Model RKNB- Series	A180YL25E	A180YL35E	A180YM25E	A180YM35E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
EER/SEER ²	11.5/NA	11.5/NA	11.5/NA	11.5/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]
ARI Net Cooling Capacity Btu [kW]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]
Net Sensible Capacity Btu [kW]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]
Net Latent Capacity Btu [kW]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]
Integrated Part Load Value ³	12.1	12.1	12.1	12.1
Net System Power kW	15.3	15.3	15.3	15.3
Heating Performance (Package Gas/Electric)⁴				
Heating Input Btu [kW] (1st Stage /2nd Stage)	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]	125,000/250,000 [36.6/73.2]	175,000/350,000 [51.3/102.6]
Heating Output Btu [kW] (1st Stage /2nd Stage)	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]	101,500/203,000 [29.7/59.5]	142,000/284,000 [41.6/83.2]
Temperature Rise Range °F [°C]	15-45 [8.3/25]	30-60 [16.7/33.3]	15-45 [8.3/25]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	10	14	10	14
No. Stages	2	2	2	2
Gas Connection Pipe Size in. [mm]	.75 [19.05]	.75 [19.05]	.75 [19.05]	.75 [19.05]
Compressor				
No./Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Outdoor Sound Rating (dB)⁵				
	91	91	91	91
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type				
Tube 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]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type				
Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	3	5	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	184	184
Filter—Type				
Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]				
	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]
Weights				
Net Weight lbs. [kg]	1853 [841]	1878 [852]	1880 [853]	1904 [864]
Ship Weight lbs. [kg]	2074 [941]	2098 [952]	2100 [953]	2124 [964]

CONTINUED →

See Page 28 for Notes.

[] Designates Metric Conversions



NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on ARI Standard 210/240 or 360.
2. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at ARI rated cfm.
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 ARI Standard 270.



GROSS SYSTEMS PERFORMANCE DATA—A180

			ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①								
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]
DR ①			.16	.12	.08	.16	.12	.08	.16	.12	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	216.1 [63.33]	209.2 [61.31]	202.3 [59.29]	204.7 [59.99]	197.8 [57.97]	191.0 [55.98]	195.9 [57.41]	189.0 [55.39]	182.2 [53.40]
		Sens BTUH [kW]	134.5 [39.42]	121.2 [35.52]	107.9 [31.62]	160.0 [46.89]	146.7 [42.99]	133.4 [39.10]	186.9 [54.77]	173.6 [50.88]	160.3 [46.98]
		Power	15.1	14.9	14.6	14.8	14.5	14.2	14.9	14.6	14.3
	80 [26.7]	Total BTUH [kW]	216.6 [63.48]	209.8 [61.49]	202.9 [59.46]	205.2 [60.14]	198.4 [58.15]	191.5 [56.12]	196.4 [57.56]	189.6 [55.57]	182.7 [53.54]
		Sens BTUH [kW]	135.4 [39.68]	122.1 [35.78]	108.7 [31.86]	160.9 [47.16]	147.5 [43.23]	134.2 [39.33]	187.8 [55.04]	174.4 [51.11]	161.1 [47.21]
		Power	15.9	15.6	15.3	15.5	15.2	14.9	15.6	15.3	15.0
	85 [29.4]	Total BTUH [kW]	214.8 [62.95]	208.0 [60.96]	201.1 [58.94]	203.4 [59.61]	196.6 [57.62]	189.7 [55.60]	194.7 [57.06]	187.8 [55.04]	180.9 [53.02]
		Sens BTUH [kW]	134.7 [39.48]	121.4 [35.58]	108.0 [31.65]	160.2 [46.95]	146.8 [43.02]	133.5 [39.12]	187.1 [54.83]	173.7 [50.91]	160.4 [47.01]
		Power	16.6	16.3	16.0	16.3	16.0	15.7	16.3	16.1	15.8
	90 [32.2]	Total BTUH [kW]	211.4 [61.96]	204.5 [59.93]	197.7 [57.94]	200.0 [58.61]	193.1 [56.59]	186.3 [54.60]	191.2 [56.04]	184.3 [54.01]	177.5 [52.02]
Sens BTUH [kW]		132.9 [38.95]	119.6 [35.05]	106.3 [31.15]	158.4 [46.42]	145.1 [42.52]	131.8 [38.63]	185.2 [54.28]	172.0 [50.41]	158.7 [46.51]	
Power		17.4	17.1	16.8	17.0	16.7	16.4	17.1	16.8	16.5	
95 [35]	Total BTUH [kW]	207.0 [60.67]	200.1 [58.64]	193.2 [56.62]	195.6 [57.32]	188.7 [55.30]	181.9 [53.31]	186.8 [54.75]	179.9 [52.72]	173.1 [50.73]	
	Sens BTUH [kW]	130.6 [38.28]	117.2 [34.35]	103.9 [30.45]	156.0 [45.72]	142.7 [41.82]	129.4 [37.92]	183.2 [53.69]	169.6 [49.70]	156.3 [45.81]	
	Power	18.1	17.8	17.5	17.7	17.4	17.1	17.8	17.5	17.2	
100 [37.8]	Total BTUH [kW]	202.2 [59.26]	195.4 [57.27]	188.5 [55.24]	190.9 [55.95]	184.0 [53.93]	177.1 [51.90]	182.1 [53.37]	175.2 [51.35]	168.3 [49.32]	
	Sens BTUH [kW]	128.1 [37.54]	114.8 [33.64]	101.5 [29.75]	153.6 [45.02]	140.2 [41.09]	126.9 [37.19]	180.4 [52.87]	167.2 [49.00]	153.8 [45.07]	
	Power	18.8	18.6	18.3	18.5	18.2	17.9	18.6	18.3	18.0	
105 [40.6]	Total BTUH [kW]	197.9 [58.00]	191.1 [56.01]	184.2 [53.98]	186.5 [54.66]	179.7 [52.66]	172.8 [50.64]	177.7 [52.08]	170.9 [50.09]	164.0 [48.06]	
	Sens BTUH [kW]	126.0 [36.93]	112.7 [33.03]	99.3 [29.10]	151.5 [44.40]	138.1 [40.47]	124.8 [36.58]	177.7 [52.08]	165.0 [48.36]	151.7 [44.46]	
	Power	19.6	19.3	19.0	19.2	18.9	18.6	19.3	19.0	18.7	
110 [43.3]	Total BTUH [kW]	194.7 [57.06]	187.8 [55.04]	180.9 [53.02]	183.3 [53.72]	176.4 [51.70]	169.6 [49.70]	174.5 [51.14]	167.6 [49.12]	160.8 [47.13]	
	Sens BTUH [kW]	124.7 [36.55]	111.4 [32.65]	98.1 [28.75]	150.2 [44.02]	136.9 [40.12]	123.6 [36.22]	174.5 [51.14]	163.8 [48.01]	150.5 [44.11]	
	Power	20.3	20.0	19.7	20.0	19.7	19.4	20.0	19.8	19.5	
115 [46.1]	Total BTUH [kW]	193.2 [56.62]	186.3 [54.60]	179.4 [52.58]	181.8 [53.28]	174.9 [51.26]	168.1 [49.27]	173.0 [50.70]	166.1 [48.68]	159.3 [46.69]	
	Sens BTUH [kW]	124.8 [36.58]	111.5 [32.68]	98.2 [28.78]	150.3 [44.05]	137.0 [40.15]	123.6 [36.22]	173.0 [50.70]	163.9 [48.03]	150.6 [44.14]	
	Power	21.1	20.8	20.5	20.7	20.4	20.1	20.8	20.5	20.2	

GROSS SYSTEMS PERFORMANCE DATA—A240

			ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①								
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8880 [4190]	7400 [3492]	5920 [2793]	8880 [4190]	7400 [3492]	5920 [2793]	8880 [4190]	7400 [3492]	5920 [2793]
DR ①			.17	.14	.11	.17	.14	.11	.17	.14	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	269.9 [79.10]	261.1 [76.52]	252.3 [73.94]	263.5 [77.22]	254.7 [74.65]	246.0 [72.10]	245.6 [71.98]	236.9 [69.43]	228.1 [66.85]
		Sens BTUH [kW]	161.5 [47.33]	145.0 [42.50]	128.4 [37.63]	201.3 [59.00]	184.7 [54.13]	168.2 [49.29]	219.2 [64.24]	202.6 [59.38]	186.0 [54.51]
		Power	18.2	17.8	17.5	18.6	18.2	17.9	17.6	17.2	16.9
	80 [26.7]	Total BTUH [kW]	262.6 [76.96]	253.8 [74.38]	245.0 [71.80]	256.2 [75.08]	247.4 [72.51]	238.7 [69.96]	238.3 [69.84]	229.6 [67.29]	220.8 [64.71]
		Sens BTUH [kW]	150.9 [44.22]	134.3 [39.36]	117.7 [34.49]	190.6 [55.86]	174.1 [51.02]	157.5 [46.16]	208.5 [61.11]	191.9 [56.24]	175.4 [51.40]
		Power	19.2	18.8	18.4	19.6	19.2	18.8	18.6	18.2	17.8
	85 [29.4]	Total BTUH [kW]	259.0 [75.91]	250.2 [73.33]	241.4 [70.75]	252.6 [74.03]	243.8 [71.45]	235.1 [68.90]	234.7 [68.78]	226.0 [66.23]	217.2 [63.66]
		Sens BTUH [kW]	148.1 [43.40]	131.5 [38.54]	114.9 [33.67]	187.8 [55.04]	171.3 [50.20]	154.7 [45.34]	205.7 [60.28]	189.1 [55.42]	172.6 [50.58]
		Power	20.1	19.8	19.4	20.6	20.2	19.8	19.6	19.2	18.8
	90 [32.2]	Total BTUH [kW]	257.5 [75.47]	248.7 [72.89]	239.9 [70.31]	251.2 [73.62]	242.4 [71.04]	233.6 [68.46]	233.3 [68.37]	224.5 [65.79]	215.7 [63.22]
Sens BTUH [kW]		150.2 [44.02]	133.6 [39.15]	117.1 [34.32]	190.0 [55.68]	173.4 [50.82]	156.8 [45.95]	207.8 [60.90]	191.3 [56.06]	174.7 [51.20]	
Power		21.1	20.8	20.4	21.5	21.2	20.8	20.5	20.2	19.8	
95 [35]	Total BTUH [kW]	256.7 [75.23]	247.9 [72.65]	239.1 [70.07]	250.4 [73.39]	241.6 [70.81]	232.8 [68.23]	232.5 [68.14]	223.7 [65.56]	214.9 [62.98]	
	Sens BTUH [kW]	154.4 [45.25]	137.8 [40.39]	121.2 [35.52]	194.1 [56.89]	177.6 [52.05]	161.0 [47.18]	212.2 [62.19]	195.4 [57.27]	178.9 [52.43]	
	Power	22.1	21.7	21.4	22.5	22.1	21.8	21.5	21.1	20.8	
100 [37.8]	Total BTUH [kW]	255.0 [74.73]	246.2 [72.15]	237.4 [69.58]	248.6 [72.86]	239.8 [70.28]	231.1 [67.73]	230.7 [67.61]	222.0 [65.06]	213.2 [62.48]	
	Sens BTUH [kW]	157.7 [46.22]	141.1 [41.35]	124.5 [36.49]	197.4 [57.85]	180.9 [53.02]	164.3 [48.15]	215.3 [63.10]	198.7 [58.23]	182.1 [53.37]	
	Power	23.1	22.7	22.3	23.5	23.1	22.8	22.5	22.1	21.8	
105 [40.6]	Total BTUH [kW]	250.8 [73.50]	242.0 [70.92]	233.2 [68.34]	244.4 [71.63]	235.7 [69.08]	226.9 [66.50]	226.6 [66.41]	217.8 [63.83]	209.0 [61.25]	
	Sens BTUH [kW]	157.2 [46.07]	140.6 [41.21]	124.0 [36.34]	196.9 [57.71]	180.4 [52.87]	163.8 [48.01]	214.8 [62.95]	198.2 [58.09]	181.6 [53.22]	
	Power	24.1	23.7	23.3	24.5	24.1	23.7	23.5	23.1	22.7	
110 [43.3]	Total BTUH [kW]	242.6 [71.10]	233.8 [68.52]	225.1 [65.97]	236.3 [69.25]	227.5 [66.67]	218.7 [64.09]	218.4 [64.01]	209.6 [61.43]	200.8 [58.85]	
	Sens BTUH [kW]	149.9 [43.93]	133.4 [39.10]	116.8 [34.23]	189.7 [55.60]	173.1 [50.73]	156.6 [45.89]	207.6 [60.84]	191.0 [55.98]	174.4 [51.11]	
	Power	25.0	24.7	24.3	25.5	25.1	24.7	24.5	24.1	23.7	
115 [46.1]	Total BTUH [kW]	228.9 [67.08]	220.2 [64.53]	211.4 [61.96]	222.6 [65.24]	213.8 [62.66]	205.0 [60.08]	204.7 [59.99]	195.9 [57.41]	187.2 [54.86]	
	Sens BTUH [kW]	133.1 [39.01]	116.5 [34.14]	100.0 [29.31]	172.9 [50.67]	156.3 [45.81]	139.7 [40.94]	190.7 [55.89]	174.2 [51.05]	157.6 [46.19]	
	Power	26.0	25.7	25.3	26.4	26.1	25.7	25.4	25.1	24.7	

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

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

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

[] Designates Metric Conversions



GROSS SYSTEMS PERFORMANCE DATA—A300

wbE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		9580 [8400]	8400 [3964]	6720 [3171]	9580 [8400]	8400 [3964]	6720 [3171]	9580 [8400]	8400 [3964]	6720 [3171]	
DR ①		.16	.14	.12	.16	.14	.12	.16	.14	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	338.3 [99.15] 200.5 [8.40] 21.9	330.7 [96.92] 186.7 [54.72] 21.6	319.8 [93.72] 167.0 [48.94] 21.2	328.7 [96.33] 237.9 [69.72] 21.6	321.1 [94.11] 224.1 [65.68] 21.3	310.2 [90.91] 204.4 [59.90] 20.9	318.1 [93.23] 276.8 [81.12] 21.1	310.5 [91.00] 263.0 [77.08] 20.8	299.6 [87.80] 243.3 [71.30] 20.3
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	333.9 [97.86] 199.4 [58.44] 23.2	326.3 [95.63] 185.6 [54.39] 22.9	315.4 [92.43] 165.9 [48.62] 22.5	324.3 [95.04] 236.8 [69.40] 23.0	316.7 [92.82] 223.0 [65.35] 22.6	305.8 [89.62] 203.3 [59.58] 22.2	313.8 [91.97] 275.8 [80.83] 22.4	306.2 [89.74] 262.0 [76.78] 22.1	295.3 [86.54] 242.2 [70.98] 21.7
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	328.9 [96.39] 196.6 [57.62] 24.6	321.3 [94.16] 182.8 [53.57] 24.3	310.4 [90.97] 163.1 [47.80] 23.8	319.3 [93.58] 234.0 [68.58] 24.3	311.7 [91.35] 220.2 [64.53] 24.0	300.8 [88.16] 200.4 [58.73] 23.5	308.8 [90.50] 272.9 [79.98] 23.7	301.1 [88.24] 259.1 [75.93] 23.4	290.3 [85.08] 239.4 [70.16] 23.0
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	323.1 [94.69] 192.5 [56.42] 25.9	315.5 [92.46] 178.7 [52.37] 25.6	304.6 [89.27] 159.0 [46.60] 25.1	313.6 [91.91] 229.9 [67.38] 25.6	305.9 [89.65] 216.1 [63.33] 25.3	295.1 [86.49] 196.4 [57.56] 24.8	303.0 [88.80] 268.9 [78.81] 25.1	295.4 [86.57] 255.1 [74.76] 24.8	284.5 [83.38] 235.3 [68.96] 24.3
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	316.5 [92.76] 187.7 [55.01] 27.2	308.9 [90.53] 173.9 [50.97] 26.9	298.0 [87.34] 154.2 [45.19] 26.5	306.9 [89.94] 225.1 [65.97] 26.9	299.3 [87.72] 211.3 [61.93] 26.6	288.4 [84.52] 191.6 [56.15] 26.2	296.3 [86.84] 264.1 [77.40] 26.4	288.7 [84.61] 250.3 [73.36] 26.1	277.8 [81.42] 230.5 [67.55] 25.6
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	308.9 [90.53] 182.7 [53.54] 28.5	301.3 [88.30] 168.9 [49.50] 28.2	290.4 [85.11] 149.2 [43.73] 27.8	299.3 [87.72] 220.1 [64.50] 28.2	291.7 [85.49] 206.3 [60.46] 27.9	280.8 [82.29] 186.6 [54.69] 27.5	288.7 [84.61] 259.1 [75.93] 27.7	281.1 [82.38] 245.3 [71.89] 27.4	270.2 [79.19] 225.5 [66.09] 27.0
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	300.2 [87.98] 178.1 [52.20] 29.9	292.6 [85.75] 164.3 [48.15] 29.6	281.7 [82.56] 144.6 [42.38] 29.1	290.6 [85.17] 215.5 [63.16] 29.6	283.0 [82.94] 201.6 [59.08] 29.3	272.1 [79.74] 181.9 [53.31] 28.8	280.0 [82.06] 254.4 [74.56] 29.0	272.4 [79.83] 240.6 [70.51] 28.7	261.5 [76.64] 220.9 [64.74] 28.3
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	290.3 [85.08] 174.3 [51.08] 31.2	282.7 [82.85] 160.4 [47.01] 30.9	271.8 [79.66] 140.7 [41.24] 30.4	280.7 [82.27] 211.6 [62.01] 30.9	273.1 [80.04] 197.8 [57.97] 30.6	262.2 [76.84] 178.1 [52.20] 30.1	270.1 [79.16] 250.6 [73.44] 30.4	262.5 [76.93] 236.8 [69.40] 30.0	251.6 [73.74] 217.0 [63.60] 29.6
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	279.1 [81.80] 171.8 [50.35] 32.5	271.5 [79.57] 158.0 [46.31] 32.2	260.6 [76.37] 138.3 [40.53] 31.8	269.5 [78.98] 209.2 [61.31] 32.2	261.9 [76.76] 195.3 [57.24] 31.9	251.0 [73.56] 175.6 [51.46] 31.5	258.9 [75.88] 248.1 [72.71] 31.7	251.3 [73.65] 234.3 [68.67] 31.4	240.4 [70.45] 214.6 [62.89] 30.9

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 x CFM x (1 - DR) x (dbE - 80)].

[] Designates Metric Conversions



SYSTEMS PERFORMANCE—RKMB- SERIES

GROSS SYSTEMS PERFORMANCE DATA—A180

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	
DR ①		.16	.12	.08	.16	.12	.08	.16	.12	.08	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	216.1 [63.33] 134.5 [39.42] 13.2	209.2 [61.31] 121.2 [35.52] 12.9	202.3 [59.29] 107.9 [31.62] 12.7	204.7 [59.99] 160.0 [46.89] 12.8	197.8 [57.97] 146.7 [42.99] 12.5	191.0 [55.98] 133.4 [39.10] 12.3	195.9 [57.41] 186.9 [54.77] 12.9	189.0 [55.39] 173.6 [50.88] 12.7	182.2 [53.40] 160.3 [46.98] 12.4
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	216.6 [63.48] 135.4 [39.68] 13.8	209.8 [61.49] 122.1 [35.78] 13.5	202.9 [59.46] 108.7 [31.86] 13.3	205.2 [60.14] 160.9 [47.16] 13.4	198.4 [58.15] 147.5 [43.23] 13.2	191.5 [56.12] 134.2 [39.33] 12.9	196.4 [57.56] 187.8 [55.04] 13.6	189.6 [55.57] 174.4 [51.11] 13.3	182.7 [53.54] 161.1 [47.21] 13.1
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	214.8 [62.95] 134.7 [39.48] 14.4	208.0 [60.96] 121.4 [35.58] 14.2	201.1 [58.94] 108.0 [31.65] 13.9	203.4 [59.61] 160.2 [46.95] 14.1	196.6 [57.62] 146.8 [43.02] 13.8	189.7 [55.60] 133.5 [39.12] 13.6	194.7 [57.06] 187.1 [54.83] 14.2	187.8 [55.04] 173.7 [50.91] 13.9	180.9 [53.02] 160.4 [47.01] 13.7
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	211.4 [61.96] 132.9 [38.95] 15.1	204.5 [59.93] 119.6 [35.05] 14.8	197.7 [57.94] 106.3 [31.15] 14.6	200.0 [58.61] 158.4 [46.42] 14.7	193.1 [56.59] 145.1 [42.52] 14.5	186.3 [54.60] 131.8 [38.63] 14.2	191.2 [56.04] 185.2 [54.28] 14.8	184.3 [54.01] 172.0 [50.41] 14.6	177.5 [52.02] 158.7 [46.51] 14.3
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	207.0 [60.67] 130.6 [38.28] 15.7	200.1 [58.64] 117.2 [34.35] 15.5	193.2 [56.62] 103.9 [30.45] 15.2	195.6 [57.32] 156.0 [45.72] 15.3	188.7 [55.30] 142.7 [41.82] 15.1	181.9 [53.31] 129.4 [37.92] 14.8	186.8 [54.75] 183.2 [53.69] 15.5	179.9 [52.72] 169.6 [49.70] 15.2	173.1 [50.73] 156.3 [45.81] 15.0
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	202.2 [59.26] 128.1 [37.54] 16.4	195.4 [57.27] 114.8 [33.64] 16.1	188.5 [55.24] 101.5 [29.75] 15.9	190.9 [55.95] 153.6 [45.02] 16.0	184.0 [53.93] 140.2 [41.09] 15.7	177.1 [51.90] 126.9 [37.19] 15.5	182.1 [53.37] 180.4 [52.87] 16.1	175.2 [51.35] 167.2 [49.00] 15.9	168.3 [49.32] 153.8 [45.07] 15.6
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	197.9 [58.00] 126.0 [36.93] 17.0	191.1 [56.01] 112.7 [33.03] 16.8	184.2 [53.98] 99.3 [29.10] 16.5	186.5 [54.66] 151.5 [44.40] 16.6	179.7 [52.66] 138.1 [40.47] 16.4	172.8 [50.64] 124.8 [36.58] 16.1	177.7 [52.08] 177.7 [52.08] 16.8	170.9 [50.09] 165.0 [48.36] 16.5	164.0 [48.06] 151.7 [44.46] 16.3
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	194.7 [57.06] 124.7 [36.55] 17.6	187.8 [55.04] 111.4 [32.65] 17.4	180.9 [53.02] 98.1 [28.75] 17.1	183.3 [53.72] 150.2 [44.02] 17.3	176.4 [51.70] 136.9 [40.12] 17.0	169.6 [49.70] 123.6 [36.22] 16.8	174.5 [51.14] 174.5 [51.14] 17.4	167.6 [49.12] 163.8 [48.01] 17.1	160.8 [47.13] 150.5 [44.11] 16.9
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	193.2 [56.62] 124.8 [36.58] 18.3	186.3 [54.60] 111.5 [32.68] 18.0	179.4 [52.58] 98.2 [28.78] 17.8	181.8 [53.28] 150.3 [44.05] 17.9	174.9 [51.26] 137.0 [40.15] 17.7	168.1 [49.27] 123.6 [36.22] 17.4	173.0 [50.70] 173.0 [50.70] 18.0	166.1 [48.68] 163.9 [48.03] 17.8	159.3 [46.69] 150.6 [44.14] 17.5

GROSS SYSTEMS PERFORMANCE DATA—A240

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		8880 [4191]	7400 [3492]	5920 [2794]	8880 [4191]	7400 [3492]	5920 [2794]	8880 [4191]	7400 [3492]	5920 [2794]	
DR ①		.15	.12	.08	.15	.12	.08	.15	.12	.08	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	277.6 [81.36] 173.0 [50.70] 16.2	268.7 [78.75] 156.1 [45.75] 15.8	259.7 [76.11] 139.1 [40.77] 15.5	265.8 [77.90] 204.3 [59.87] 16.2	256.9 [75.29] 187.4 [54.92] 15.8	248.0 [72.68] 170.4 [49.94] 15.5	255.3 [74.82] 238.3 [69.84] 15.8	246.4 [72.21] 221.4 [64.89] 15.5	237.5 [69.60] 204.4 [59.90] 15.1
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	274.3 [80.39] 172.2 [50.47] 17.2	265.3 [77.75] 155.2 [45.48] 16.9	256.4 [75.14] 138.3 [40.53] 16.5	262.5 [76.93] 203.5 [59.64] 17.2	253.6 [74.32] 186.5 [54.66] 16.9	244.6 [71.69] 169.6 [49.70] 16.5	252.0 [73.85] 237.5 [69.60] 16.8	243.1 [71.25] 220.5 [64.62] 16.5	234.1 [68.61] 203.6 [59.67] 16.1
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	271.6 [79.60] 170.9 [50.09] 18.2	262.7 [76.99] 153.9 [45.10] 17.9	253.7 [74.35] 137.0 [40.15] 17.6	259.8 [76.14] 202.2 [59.26] 18.2	250.9 [73.53] 185.2 [54.28] 17.9	242.0 [70.92] 168.3 [49.32] 17.6	249.3 [73.06] 236.1 [69.19] 17.8	240.4 [70.45] 219.2 [64.24] 17.5	231.5 [67.85] 202.2 [59.26] 17.2
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	269.1 [78.87] 169.2 [49.59] 19.3	260.2 [76.26] 152.2 [44.61] 18.9	251.2 [73.62] 135.3 [39.65] 18.6	257.3 [75.41] 200.5 [58.76] 19.2	248.4 [72.80] 183.5 [53.78] 18.9	239.5 [70.19] 166.6 [48.83] 18.6	246.8 [72.33] 234.5 [68.73] 18.9	237.9 [69.72] 217.5 [63.74] 18.5	229.0 [67.11] 200.6 [58.79] 18.2
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	266.3 [78.04] 167.2 [49.00] 20.3	257.4 [75.44] 150.3 [44.05] 19.9	248.4 [72.80] 133.3 [39.07] 19.6	254.5 [74.59] 198.5 [58.17] 20.3	245.6 [71.98] 181.6 [53.22] 19.9	236.7 [69.37] 164.6 [48.24] 19.6	244.0 [71.51] 232.5 [68.14] 19.9	235.1 [68.90] 215.6 [63.19] 19.5	226.2 [66.29] 198.6 [58.20] 19.2
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	262.7 [76.99] 165.1 [48.39] 21.3	253.8 [74.38] 148.1 [43.40] 21.0	244.8 [71.74] 131.2 [38.45] 20.6	250.9 [73.53] 196.4 [57.56] 21.3	242.0 [70.92] 179.4 [52.58] 21.0	233.1 [68.31] 162.5 [47.62] 20.6	240.4 [70.45] 230.4 [67.52] 20.9	231.5 [67.85] 213.4 [62.54] 20.6	222.6 [65.24] 196.5 [57.59] 20.2
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	257.8 [75.55] 162.8 [47.71] 22.3	248.9 [72.95] 145.9 [42.76] 22.0	240.0 [70.34] 128.9 [37.78] 21.7	246.1 [72.12] 196.4 [57.56] 22.3	237.1 [69.49] 177.2 [51.93] 22.0	228.2 [66.88] 160.2 [46.95] 21.7	235.6 [69.05] 228.1 [66.85] 21.9	226.7 [66.44] 211.2 [61.90] 21.6	217.7 [63.80] 194.2 [56.91] 21.3
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	251.2 [73.62] 160.5 [47.04] 23.4	242.3 [71.01] 143.6 [42.09] 23.0	233.4 [68.40] 126.6 [37.10] 22.7	239.5 [70.19] 191.9 [56.24] 23.3	230.5 [67.55] 174.9 [51.26] 23.0	221.6 [64.94] 158.0 [46.31] 22.7	229.0 [67.11] 225.8 [66.18] 23.0	220.0 [64.48] 208.9 [61.22] 22.6	211.1 [61.87] 191.9 [56.24] 22.3
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	242.4 [71.04] 158.3 [46.39] 24.4	233.5 [68.43] 141.4 [41.44] 24.0	224.5 [65.79] 124.4 [36.46] 23.7	230.6 [67.58] 189.6 [55.57] 24.4	221.7 [64.97] 172.7 [50.61] 24.0	212.8 [62.37] 155.7 [45.63] 23.7	220.1 [64.50] 220.1 [64.50] 24.0	211.2 [61.90] 206.7 [60.58] 23.6	202.3 [59.29] 189.7 [55.60] 23.3

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

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

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

[] Designates Metric Conversions



GROSS SYSTEMS PERFORMANCE DATA—A180

wbE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	
DR ①		.16	.12	.08	.16	.12	.08	.16	.12	.08	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	212.3 [62.22] 131.9 [38.66] 13.0	204.8 [60.02] 120.6 [35.34] 12.8	197.4 [57.85] 109.3 [32.03] 12.6	204.1 [59.82] 160.7 [47.10] 13.0	197.0 [57.74] 147.0 [43.08] 12.7	189.8 [55.62] 133.3 [39.07] 12.5	196.3 [57.53] 188.2 [55.16] 12.9	189.4 [55.51] 172.2 [50.47] 12.7	182.5 [53.49] 156.1 [45.75] 12.5
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	207.6 [60.84] 130.1 [38.13] 13.6	200.4 [58.73] 119.0 [34.88] 13.4	193.1 [56.59] 107.9 [31.62] 13.2	199.5 [58.47] 159.0 [46.60] 13.6	192.5 [56.42] 145.4 [42.61] 13.3	185.5 [54.36] 131.8 [38.63] 13.1	191.7 [56.18] 186.4 [54.63] 13.5	185.0 [54.22] 170.5 [49.97] 13.3	178.2 [52.23] 154.6 [45.31] 13.1
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	205.3 [60.17] 128.9 [37.78] 14.2	198.1 [58.06] 117.9 [34.55] 14.0	190.9 [55.95] 106.9 [31.33] 13.8	197.2 [57.79] 157.8 [46.25] 14.2	190.3 [55.77] 144.3 [42.29] 13.9	183.4 [53.75] 130.8 [38.33] 13.7	189.4 [55.51] 185.3 [54.31] 14.1	182.7 [53.54] 169.4 [49.65] 13.9	176.1 [51.61] 153.6 [45.02] 13.6
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	204.3 [59.87] 128.0 [37.51] 14.8	197.2 [57.79] 117.1 [34.32] 14.6	190.0 [55.68] 106.2 [31.12] 14.3	196.2 [57.50] 156.9 [45.98] 14.7	189.3 [55.48] 143.5 [42.06] 14.5	182.4 [53.46] 130.1 [38.13] 14.3	188.4 [55.21] 184.4 [54.04] 14.7	181.8 [53.28] 168.6 [49.41] 14.5	175.1 [51.32] 152.9 [44.81] 14.2
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	203.7 [59.70] 127.2 [37.28] 15.4	196.6 [57.62] 116.3 [34.08] 15.2	189.4 [55.51] 105.5 [30.92] 14.9	195.6 [57.32] 156.0 [45.72] 15.3	188.7 [55.30] 142.7 [41.82] 15.1	181.9 [53.31] 129.4 [37.92] 14.8	187.7 [55.01] 183.5 [53.78] 15.3	181.2 [53.10] 167.9 [49.21] 15.0	174.6 [51.17] 152.2 [44.61] 14.8
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	202.5 [59.35] 126.0 [36.93] 16.0	195.4 [57.27] 115.3 [33.79] 15.8	188.3 [55.19] 104.5 [30.63] 15.5	194.4 [56.97] 154.9 [45.40] 15.9	187.5 [54.95] 141.7 [41.53] 15.7	180.7 [52.96] 128.5 [37.66] 15.4	186.5 [54.66] 182.4 [53.46] 15.9	180.0 [52.75] 166.8 [48.88] 15.6	173.4 [50.82] 151.2 [44.31] 15.4
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	199.7 [58.53] 124.3 [36.43] 16.6	192.7 [56.47] 113.7 [33.32] 16.4	185.7 [54.42] 103.1 [30.22] 16.1	191.6 [56.15] 153.2 [44.90] 16.5	184.9 [54.19] 140.1 [41.06] 16.3	178.1 [52.20] 127.1 [37.25] 16.0	183.7 [53.84] 180.7 [52.96] 16.5	177.3 [51.96] 165.3 [48.44] 16.2	170.8 [50.06] 149.8 [43.90] 15.9
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	194.4 [56.97] 121.8 [35.70] 17.2	187.6 [54.98] 111.4 [32.65] 16.9	180.8 [52.99] 101.0 [29.60] 16.7	186.3 [54.60] 150.7 [44.17] 17.1	179.7 [52.66] 137.8 [40.39] 16.9	173.2 [50.76] 124.9 [36.60] 16.6	178.4 [52.28] 178.2 [52.23] 17.1	172.2 [50.47] 163.0 [47.77] 16.8	165.9 [48.62] 147.7 [43.29] 16.5
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	185.6 [54.39] 118.1 [34.61] 17.8	179.1 [52.49] 108.0 [31.65] 17.5	172.6 [50.58] 98.0 [28.72] 17.2	177.5 [52.02] 147.0 [43.08] 17.7	171.2 [50.17] 134.5 [39.42] 17.4	165.0 [48.36] 121.9 [35.73] 17.2	169.6 [49.70] 169.6 [49.70] 17.7	163.7 [47.98] 159.6 [46.77] 17.4	157.7 [46.22] 144.7 [42.41] 17.1

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

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

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

[] Designates Metric Conversions



AIRFLOW PERFORMANCE—15 TON [52.8 kW]

Air Flow CFM [L/s]		External Static Pressure—Inches of Water [kPa]																																						
		Capacity 15 Ton [52.8 kW]						1.0 [0.25]						1.1 [0.27]						1.2 [0.30]						1.3 [0.32]														
		0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]														
		RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W													
4800 [2265]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—													
5000 [2360]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—													
5200 [2454]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—													
5400 [2549]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—													
5600 [2643]	637	1494	656	1638	676	1781	695	1925	714	2068	734	2212	753	2355	773	2499	792	2643	812	2786	895	2938	918	3117	931	3296	944	3475	956	3654	969	3833	982	4012	995	4192	1008	4371	1021	4550
6000 [2832]	669	1981	688	2125	708	2268	727	2412	747	2555	766	2699	785	2842	805	2986	888	2885	901	3064	914	3243	927	3422	940	3601	953	3780	966	3960	978	4139	991	4318	1004	4497	1017	4676	—	—
6200 [2926]	685	2224	704	2368	724	2512	743	2655	763	2799	782	2942	801	3086	821	3229	897	3190	910	3369	923	3548	936	3727	949	3907	962	4086	974	4265	987	4444	1000	4623	1013	4802	—	—		
6400 [3020]	701	2468	720	2611	740	2755	759	2899	779	3042	798	3186	817	3329	836	3471	906	3495	919	3675	932	3854	945	4033	958	4212	971	4391	983	4570	996	4749	1009	4928	—	—				
6600 [3115]	717	2711	736	2855	756	2998	775	3142	795	3286	814	3429	833	3571	852	3652	915	3801	928	3980	941	4159	954	4338	967	4517	980	4696	992	4875	1005	5055	—	—	—	—	—			
6800 [3209]	733	2955	752	3098	772	3242	791	3385	811	3529	830	3569	849	3728	868	3812	924	4106	937	4285	950	4464	963	4643	976	4823	989	5002	—	—	—	—	—	—	—	—	—			
7000 [3304]	749	3198	768	3342	788	3485	807	3629	827	3685	846	3874	865	3971	884	4028	933	4411	946	4591	959	4770	972	4949	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
7200 [3398]	765	3442	784	3585	804	3729	823	3871	842	3930	861	4070	880	4210	899	4289	942	4717	955	4896	968	5075	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

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

Drive Package	L						M					
Motor H.P. [W]	3.0 [237.1]						5.0 [3728.4]					
Blower Sheave	BK90						BK72					
Motor Sheave	1VP-44						1VP-44					
Turns Open	1	2	3	4	5	6	1.5	2	3	4	5	6
RPM	823	787	750	710	670	629	1022	1017	1006	993	860	786

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.

4. Drive data shown is for horizontal airflow with dry coil. Add component resistance to duct resistance to determine total E.S.P.

COMPONENT AIR RESISTANCE—15 TON [52.8 kW]

CFM [L/s]	4800 [2265]	5200 [2454]	5600 [2643]	6000 [2832]	6400 [3020]	6800 [3209]	7200 [3398]
Wet Coil	.02	.04	.06	.08	.10	.12	.15
Downflow	.01	.02	.03	.04	.05	.06	.07
Economizer R.A. Damper Open	.08	.11	.12	.13	.16	.17	.18
Horizontal Economizer	.01	.01	.05	.10	.12	.19	.13
Concentric Grill & Transition	.25	.30	.36	.42	.50	.59	.67

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

AIRFLOW CORRECTION FACTORS—15 TON [52.8 kW]

ACTUAL—CFM [L/s]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]
TOTAL MBTUH	.964	.970	.976	.982	.988	.994	1.000	1.006	1.012	1.018	1.024	1.030	1.036
SENSIBLE MBTUH	.907	.922	.938	.953	.969	.984	1.000	1.016	1.031	1.047	1.062	1.078	1.093
POWER kW	.988	.990	.992	.995	.997	.999	1.000	1.004	1.007	1.011	1.014	1.016	1.016

NOTES: 1. Multiply correction factor times gross performance data.

2. Resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions



ELECTRICAL DATA—RKKB- SERIES

Model No. RKKB-	Unit Information				Evaporator Fan					
	Unit Operating Voltage Range	Minimum Circuit Ampacity	Minimum Overcurrent Protection Device Size	Maximum Overcurrent Protection Device Size	No.	Volts	Phase	HP	Amps (FLA)	Amps (LRA)
A180CL25E	187-253	74/74	80/80	80/80	1	208/230	3	3	11.5	74.5
A180CL35E	187-253	74/74	80/80	80/80	1	208/230	3	3	11.5	74.5
A180CM25E	187-253	77/77	80/80	80/80	1	208/230	3	5	14.7	82.6
A180CM35E	187-253	77/77	80/80	80/80	1	208/230	3	5	14.7	82.6
A180DL25E	414-506	43	45	45	1	460	3	3	7	38.1
A180DL35E	414-506	43	45	45	1	460	3	3	7	38.1
A180DM25E	414-506	46	50	50	1	460	3	5	10	41.3
A180DM35E	414-506	46	50	50	1	460	3	5	10	41.3
A180YL25E	518-633	34	35	35	1	575	3	3	8	20
A180YL35E	518-633	34	35	35	1	575	3	3	8	20
A180YM25E	518-633	34	35	35	1	575	3	5	8	33
A180YM35E	518-633	34	35	35	1	575	3	5	8	33
A240CL30E	187-253	100/100	110/110	110/110	1	208/230	3	5	14.7	82.6
A240CL40E	187-253	100/100	110/110	110/110	1	208/230	3	5	14.7	82.6
A240CM30E	187-253	109/109	125/125	125/125	1	208/230	3	7.5	22.3	136
A240CM40E	187-253	109/109	125/125	125/125	1	208/230	3	7.5	22.3	136
A240DL30E	414-506	58	60	60	1	460	3	5	10	41.3
A240DL40E	414-506	58	60	60	1	460	3	5	10	41.3
A240DM30E	414-506	59	60	60	1	460	3	7.5	11.2	68
A240DM40E	414-506	59	60	60	1	460	3	7.5	11.2	68
A240YL30E	518-633	45	50	50	1	575	3	5	8	33
A240YL40E	518-633	45	50	50	1	575	3	5	8	33
A240YM30E	518-633	46	50	50	1	575	3	7.5	8.8	53.8
A240YM40E	518-633	46	50	50	1	575	3	7.5	8.8	53.8
A300CL30E	187-253	114/114	125/125	125/125	1	208/230	3	5	14.7	82.6
A300CL40E	187-253	114/114	125/125	125/125	1	208/230	3	5	14.7	82.6
A300CM30E	187-253	122/122	125/125	125/125	1	208/230	3	7.5	22.3	136
A300CM40E	187-253	122/122	125/125	125/125	1	208/230	3	7.5	22.3	136
A300DL30E	414-506	61	70	70	1	460	3	5	10	41.3
A300DL40E	414-506	61	70	70	1	460	3	5	10	41.3
A300DM30E	414-506	62	70	70	1	460	3	7.5	11.2	68
A300DM40E	414-506	62	70	70	1	460	3	7.5	11.2	68
A300YL30E	518-633	49	50	50	1	575	3	5	8	33
A300YL40E	518-633	49	50	50	1	575	3	5	8	33
A300YM30E	518-633	49	50	50	1	575	3	7.5	8.8	53.8
A300YM40E	518-633	49	50	50	1	575	3	7.5	8.8	53.8

ELECTRICAL DATA—RKKB- SERIES



Model No. RKKB-	Compressor Motor							Condenser Motor					
	No.	Volts	Phase	HP ¹	RPM	Amps ² (RLA)	Amps ² (LRA)	No.	Volts	Phase	HP ²	Amps ¹ (FLA)	Amps ¹ (LRA)
A180CL25E	4	200/230	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CL35E	4	200/230	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CM25E	4	200/230	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CM35E	4	200/230	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180DL25E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DL35E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DM25E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DM35E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180YL25E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YL35E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YM25E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YM35E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A240CL30E	4	200/230	3	4 3/4	3450	17.8/17.8	124/124	4	208/230	1	1/3	2.4	4.7
A240CL40E	4	200/230	3	4 3/4	3450	17.8/17.8	124/124	4	208/230	1	1/3	2.4	4.7
A240CM30E	4	200/230	3	4 3/4	3450	17.8/17.8	124/124	4	208/230	1	1/3	2.4	4.7
A240CM40E	4	200/230	3	4 3/4	3450	17.8/17.8	124/124	4	208/230	1	1/3	2.4	4.7
A240DL30E	4	460	3	4 3/4	3450	9.3	59.6	4	460	1	1/3	2	2.4
A240DL40E	4	460	3	4 3/4	3450	9.3	59.6	4	460	1	1/3	2	2.4
A240DM30E	4	460	3	4 3/4	3450	9.3	59.6	4	460	1	1/3	2	2.4
A240DM40E	4	460	3	4 3/4	3450	9.3	59.6	4	460	1	1/3	2	2.4
A240YL30E	4	575	3	4 3/4	3450	7.7	49.4	4	575	1	1/3	1	1.5
A240YL40E	4	575	3	4 3/4	3450	7.7	49.4	4	575	1	1/3	1	1.5
A240YM30E	4	575	3	4 3/4	3450	7.7	49.4	4	575	1	1/3	1	1.5
A240YM40E	4	575	3	4 3/4	3450	7.7	49.4	4	575	1	1/3	1	1.5
A300CL30E	4	200/240	3	6	3450	21/21	156/156	4	208/230	1	1/2	2.3	5.6
A300CL40E	4	200/240	3	6	3450	21/21	156/156	4	208/230	1	1/2	2.3	5.6
A300CM30E	4	200/240	3	6	3450	21/21	156/156	4	208/230	1	1/2	2.3	5.6
A300CM40E	4	200/240	3	6	3450	21/21	156/156	4	208/230	1	1/2	2.3	5.6
A300DL30E	4	460	3	6	3450	10.4	75	4	460	1	1/2	1.5	2.9
A300DL40E	4	460	3	6	3450	10.4	75	4	460	1	1/2	1.5	2.9
A300DM30E	4	460	3	6	3450	10.4	75	4	460	1	1/2	1.5	2.9
A300DM40E	4	460	3	6	3450	10.4	75	4	460	1	1/2	1.5	2.9
A300YL30E	4	575	3	6	3450	8.5	54	4	575	1	1/2	1	2.2
A300YL40E	4	575	3	6	3450	8.5	54	4	575	1	1/2	1	2.2
A300YM30E	4	575	3	6	3450	8.5	54	4	575	1	1/2	1	2.2
A300YM40E	4	575	3	6	3450	8.5	54	4	575	1	1/2	1	2.2

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.



ELECTRICAL DATA—RKMB- SERIES

Model No. RKMB-	Unit Information				Evaporator Fan					
	Unit Operating Voltage Range	Minimum Circuit Ampacity	Minimum Overcurrent Protection Device Size	Maximum Overcurrent Protection Device Size	No.	Volts	Phase	HP	Amps (FLA)	Amps (LRA)
A180CL25E	187-253	74/74	80/80	80/80	1	208/230	3	3	11.5	74.5
A180CL35E	187-253	74/74	80/80	80/80	1	208/230	3	3	11.5	74.5
A180CM25E	187-253	77/77	80/80	80/80	1	208/230	3	5	14.7	82.6
A180CM35E	187-253	77/77	80/80	80/80	1	208/230	3	5	14.7	82.6
A180DL25E	414-506	43	45	45	1	460	3	3	7	38.1
A180DL35E	414-506	43	45	45	1	460	3	3	7	38.1
A180DM25E	414-506	46	50	50	1	460	3	5	10	41.3
A180DM35E	414-506	46	50	50	1	460	3	5	10	41.3
A180YL25E	518-633	34	35	35	1	575	3	3	8	20
A180YL35E	518-633	34	35	35	1	575	3	3	8	20
A180YM25E	518-633	34	35	35	1	575	3	5	8	33
A180YM35E	518-633	34	35	35	1	575	3	5	8	33
A240CL30E	187-253	99/99	110/110	110/110	1	208/230	3	5	14.7	82.6
A240CL40E	187-253	99/99	110/110	110/110	1	208/230	3	5	14.7	82.6
A240CM30E	187-253	107/107	110/110	110/110	1	208/230	3	7.5	22.3	136
A240CM40E	187-253	107/107	110/110	110/110	1	208/230	3	7.5	22.3	136
A240DL30E	414-506	57	60	60	1	460	3	5	10	41.3
A240DL40E	414-506	57	60	60	1	460	3	5	10	41.3
A240DM30E	414-506	58	60	60	1	460	3	7.5	11.2	68
A240DM40E	414-506	58	60	60	1	460	3	7.5	11.2	68
A240YL30E	518-633	43	45	45	1	575	3	5	8	33
A240YL40E	518-633	43	45	45	1	575	3	5	8	33
A240YM30E	518-633	43	45	50	1	575	3	7.5	8.8	53.8
A240YM40E	518-633	43	45	50	1	575	3	7.5	8.8	53.8



Model No. RKMB-	Compressor Motor							Condenser Motor					
	No.	Volts	Phase	HP ²	RPM	Amps ¹ (RLA)	Amps ¹ (LRA)	No.	Volts	Phase	HP ²	Amps ¹ (FLA)	Amps ¹ (LRA)
A180CL25E	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CL35E	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CM25E	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CM35E	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180DL25E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DL35E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DM25E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DM35E	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180YL25E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YL35E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YM25E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YM35E	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A240CL30E	4	200/240	3	4 3/4	3450	17.5/17.5	123/123	4	208/230	1	1/3	2.4	4.7
A240CL40E	4	200/240	3	4 3/4	3450	17.5/17.5	123/123	4	208/230	1	1/3	2.4	4.7
A240CM30E	4	200/240	3	4 3/4	3450	17.5/17.5	123/123	4	208/230	1	1/3	2.4	4.7
A240CM40E	4	200/240	3	4 3/4	3450	17.5/17.5	123/123	4	208/230	1	1/3	2.4	4.7
A240DL30E	4	460	3	4 3/4	3450	9	62	4	460	1	1/3	2	2.4
A240DL40E	4	460	3	4 3/4	3450	9	62	4	460	1	1/3	2	2.4
A240DM30E	4	460	3	4 3/4	3450	9	62	4	460	1	1/3	2	2.4
A240DM40E	4	460	3	4 3/4	3450	9	62	4	460	1	1/3	2	2.4
A240YL30E	4	575	3	4 3/4	3450	7.1	50	4	575	1	1/3	1	1.5
A240YL40E	4	575	3	4 3/4	3450	7.1	50	4	575	1	1/3	1	1.5
A240YM30E	4	575	3	4 3/4	3450	7.1	50	4	575	1	1/3	1	1.5
A240YM40E	4	575	3	4 3/4	3450	7.1	50	4	575	1	1/3	1	1.5

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.



ELECTRICAL DATA—RKNB- SERIES

Model No. RKNB-	Unit Information				Evaporator Fan					
	Unit Operating Voltage Range	Minimum Circuit Ampacity	Minimum Overcurrent Protection Device Size	Maximum Overcurrent Protection Device Size	No.	Volts	Phase	HP	Amps (FLA)	Amps (LRA)
A180CL25E	187-253	72/72	80/80	90/90	1	208/230	3	3	11.5	74.5
A180CL35E	187-253	72/72	80/80	90/90	1	208/230	3	3	11.5	74.5
A180CM25E	187-253	75/75	80/80	90/90	1	208/230	3	5	14.7	82.6
A180CM35E	187-253	75/75	80/80	90/90	1	208/230	3	5	14.7	82.6
A180DL25E	414-506	42	45	50	1	460	3	3	7	38.1
A180DL35E	414-506	42	45	50	1	460	3	3	7	38.1
A180DM25E	414-506	45	45	50	1	460	3	5	10	41.3
A180DM35E	414-506	45	45	50	1	460	3	5	10	41.3
A180YL25E	518-632	35	35	45	1	575	3	3	8	20
A180YL35E	518-632	35	35	45	1	575	3	3	8	20
A180YM25E	518-632	35	35	45	1	575	3	5	8	33
A180YM35E	518-632	35	35	45	1	575	3	5	8	33

ELECTRICAL DATA—RKNB- SERIES



Model No. RKNB-	Compressor Motor							Condenser Motor					
	No.	Volts	Phase	HP ²	RPM	Amps ¹ (RLA)	Amps ¹ (LRA)	No.	Volts	Phase	HP ²	Amps ¹ (FLA)	Amps ¹ (LRA)
A180CL25E	2	200/240	3	6 3/4	3450	22.4/22.4	164/164	4	208/230	1	1/3	2.4	4.7
A180CL35E	2	200/240	3	6 3/4	3450	22.4/22.4	164/164	4	208/230	1	1/3	2.4	4.7
A180CM25E	2	200/240	3	6 3/4	3450	22.4/22.4	164/164	4	208/230	1	1/3	2.4	4.7
A180CM35E	2	200/240	3	6 3/4	3450	22.4/22.4	164/164	4	208/230	1	1/3	2.4	4.7
A180DL25E	2	460	3	6 3/4	3450	11.8	100	4	460	1	1/3	2	2.4
A180DL35E	2	460	3	6 3/4	3450	11.8	100	4	460	1	1/3	2	2.4
A180DM25E	2	460	3	6 3/4	3450	11.8	100	4	460	1	1/3	2	2.4
A180DM35E	2	460	3	6 3/4	3450	11.8	100	4	460	1	1/3	2	2.4
A180YL25E	2	575	3	6 3/4	3450	10.2	78	4	575	1	1/3	1	1.5
A180YL35E	2	575	3	6 3/4	3450	10.2	78	4	575	1	1/3	1	1.5
A180YM25E	2	575	3	6 3/4	3450	10.2	78	4	575	1	1/3	1	1.5
A180YM35E	2	575	3	6 3/4	3450	10.2	78	4	575	1	1/3	1	1.5

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.



UNIT DIMENSIONS—RKKB/RKMB/RKNB- SERIES

GAS HEAT / ELECTRIC COOLING PACKAGE

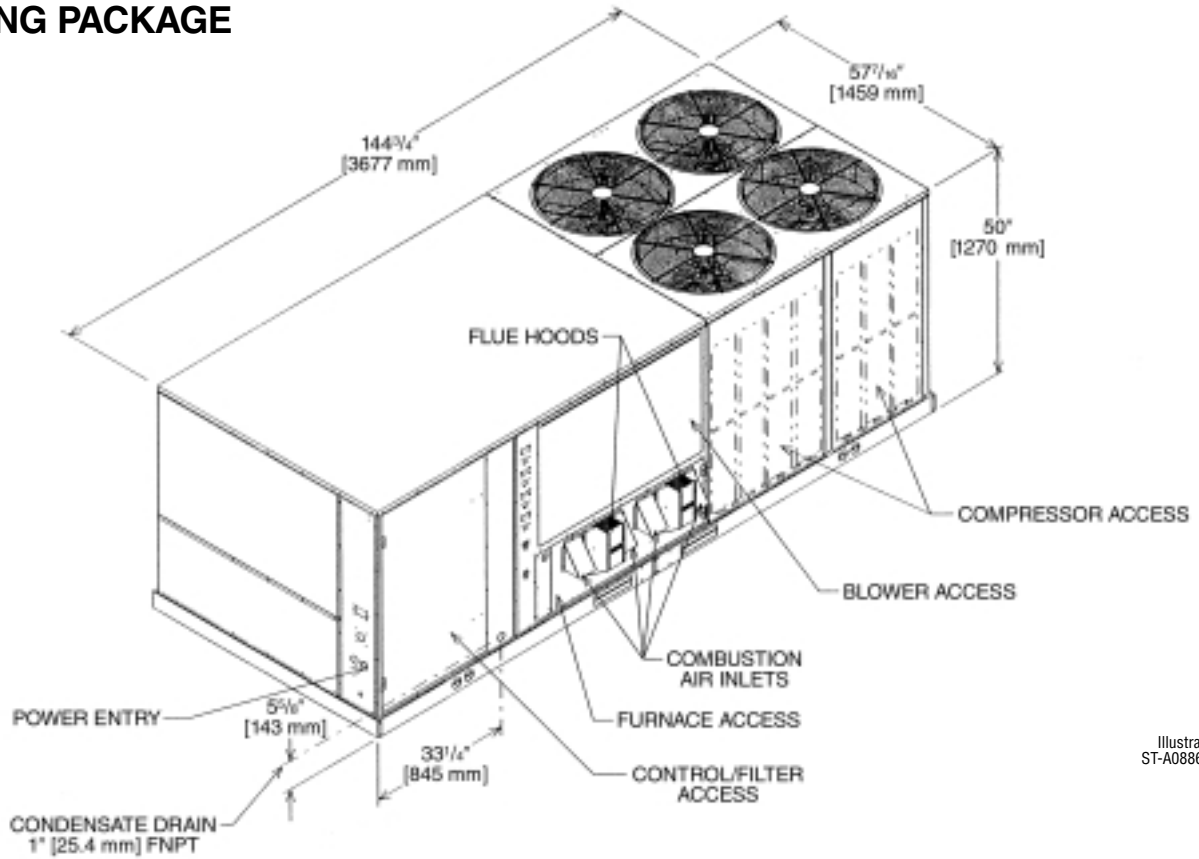
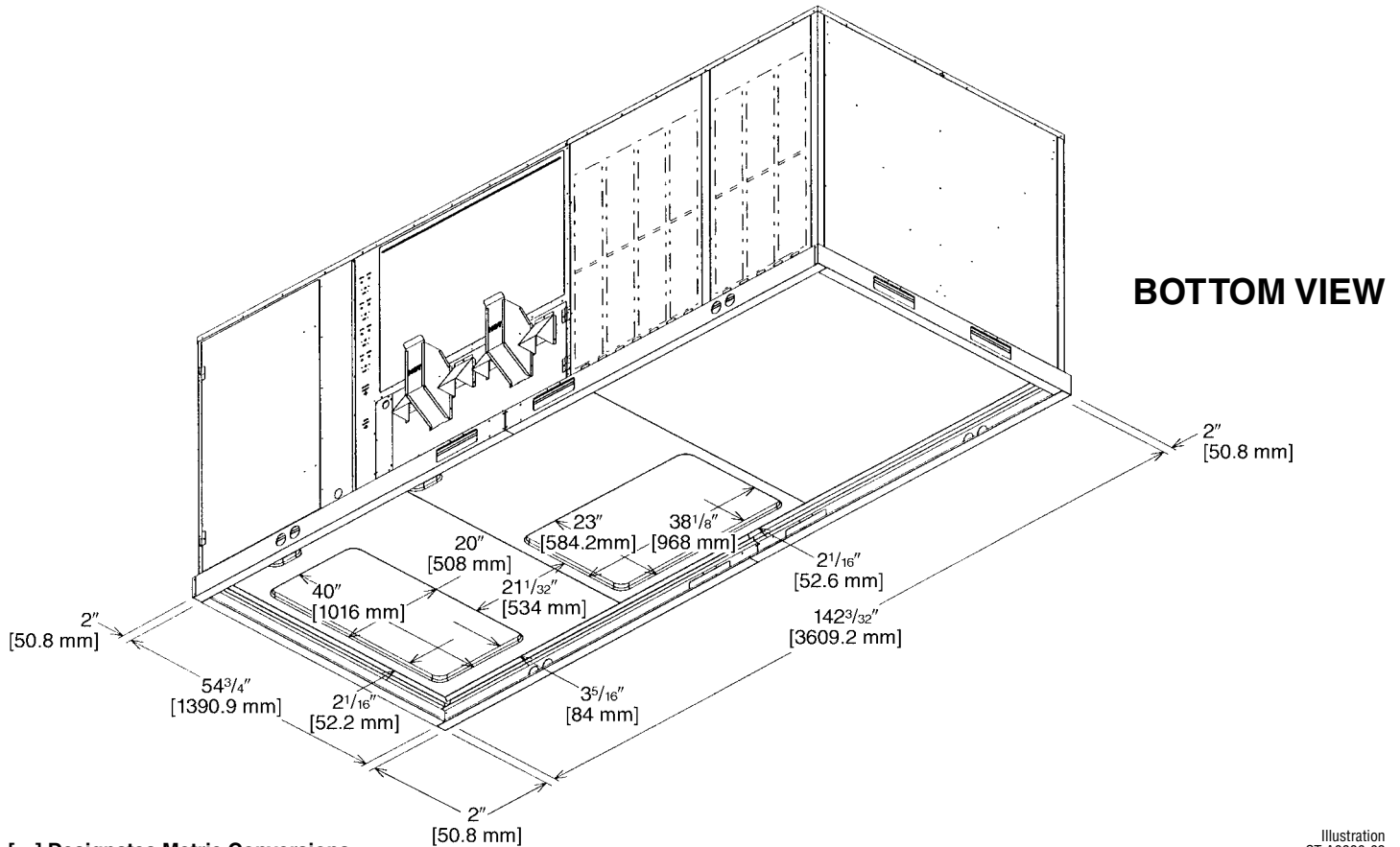


Illustration ST-A0886-06



[] Designates Metric Conversions

Illustration ST-A0886-02

GAS HEAT / ELECTRIC COOLING PACKAGE

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

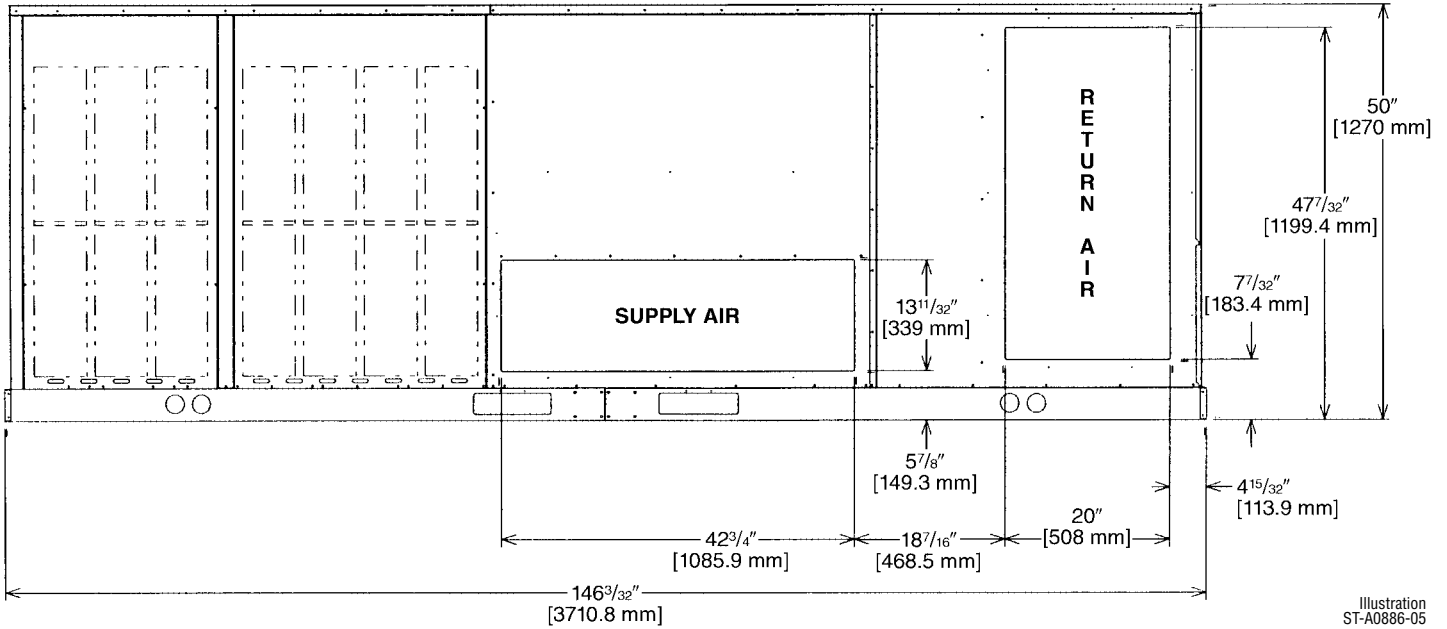


Illustration
ST-A0886-05

DUCT SIDE VIEW

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS

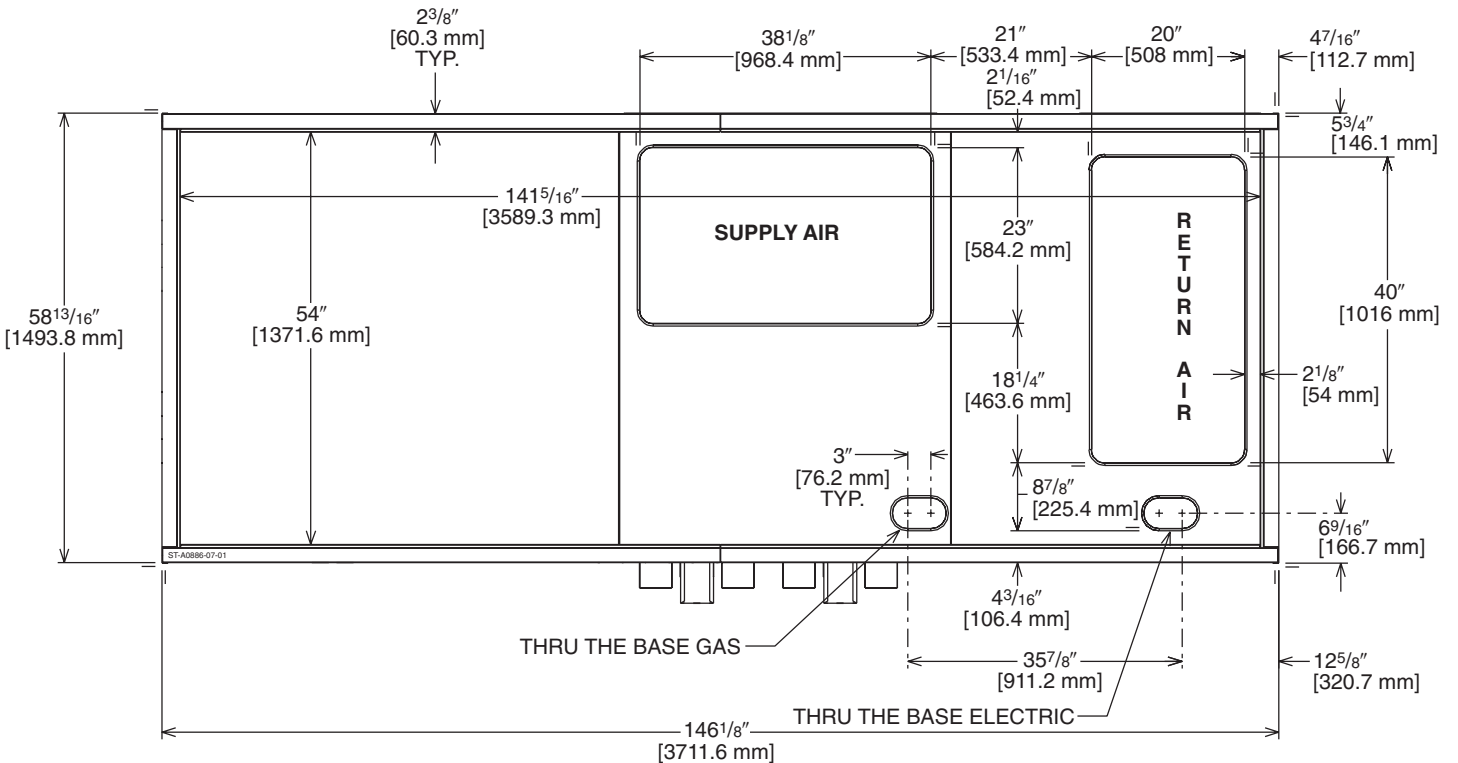


Illustration
ST-A0886-07-01

BOTTOM VIEW

[] Designates Metric Conversions



UNIT DIMENSIONS—RKKB/RKMB/RKNB- SERIES

UNIT DIMENSIONS GAS HEAT / ELECTRIC COOLING PACKAGE

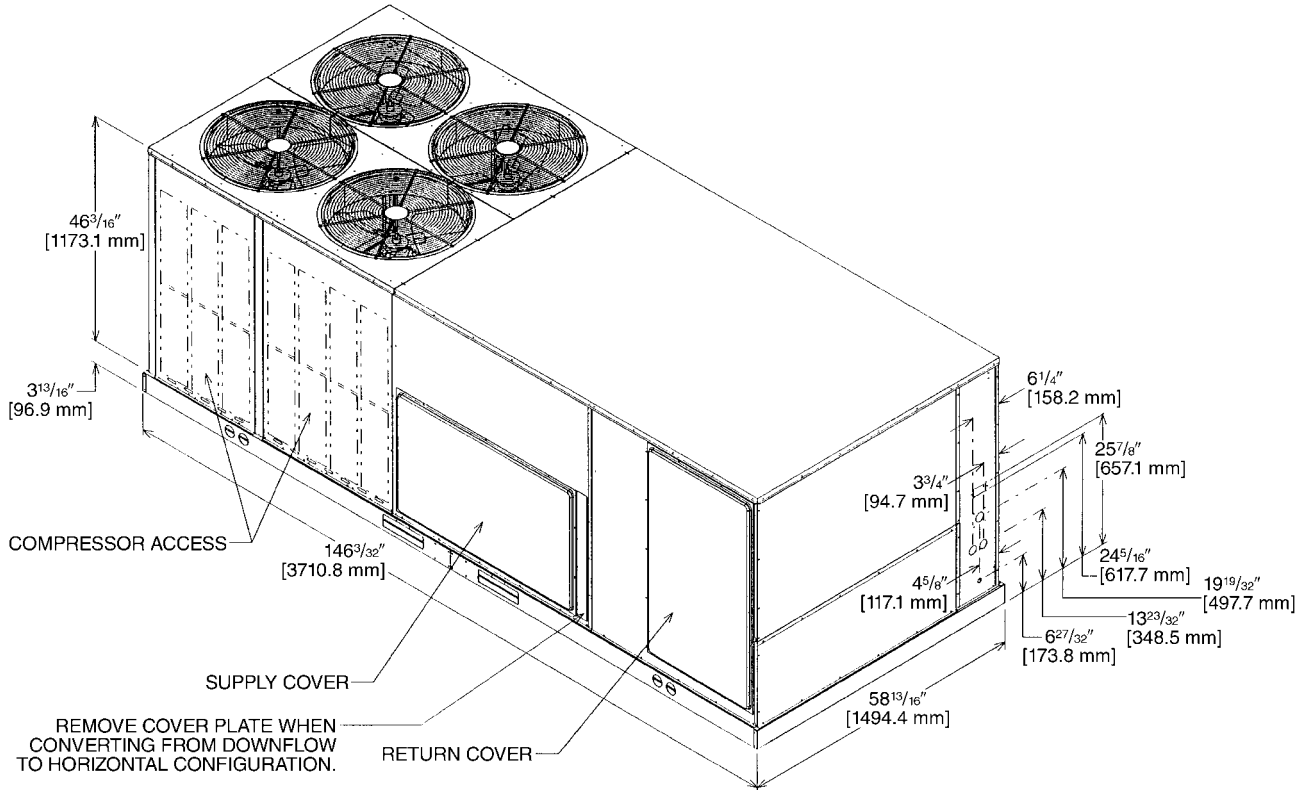


Illustration ST-A0886-03

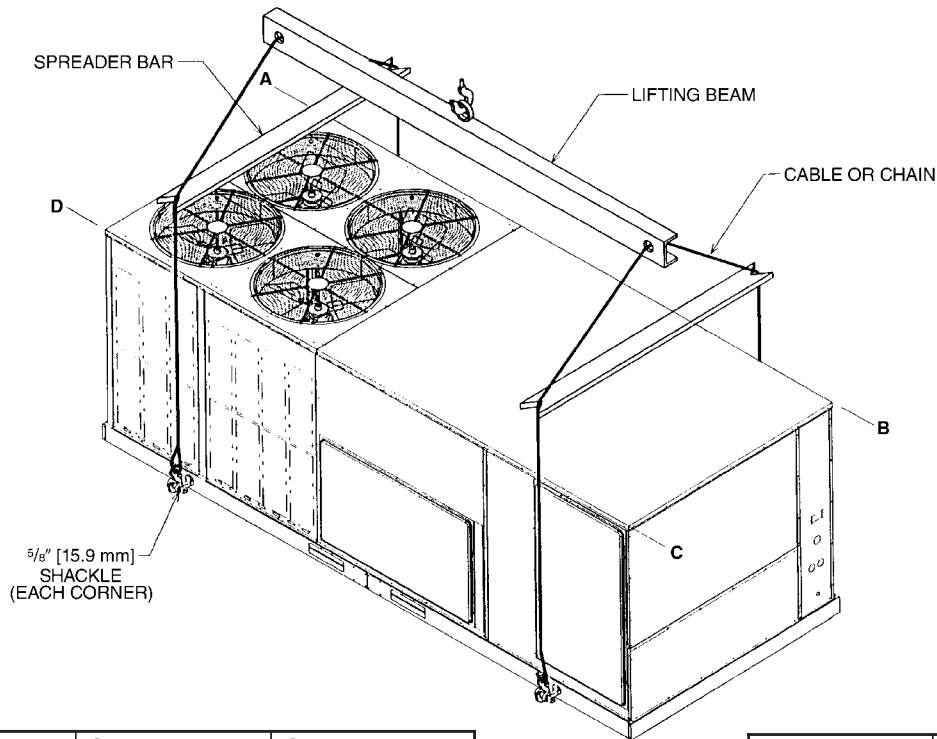


Illustration ST-A0886-12

WEIGHTS

Accessory	Shipping—lbs [kg]	Operating—lbs [kg]
Economizer—Downflow	155 [70.31]	146 [66.22]
Economizer—Horizontal	165 [74.80]	155 [70.31]
Fresh Air Damper (Manual)	51 [23.13]	40 [18.14]
Fresh Air Damper (Motorized)	46 [20.87]	35 [15.88]
Roof Curb 14"	170 [77.11]	164 [74.39]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
15-25 [52.8-87.9]	30%	26%	20%	24%

[] Designates Metric Conversions



SLAB INSTALLATION

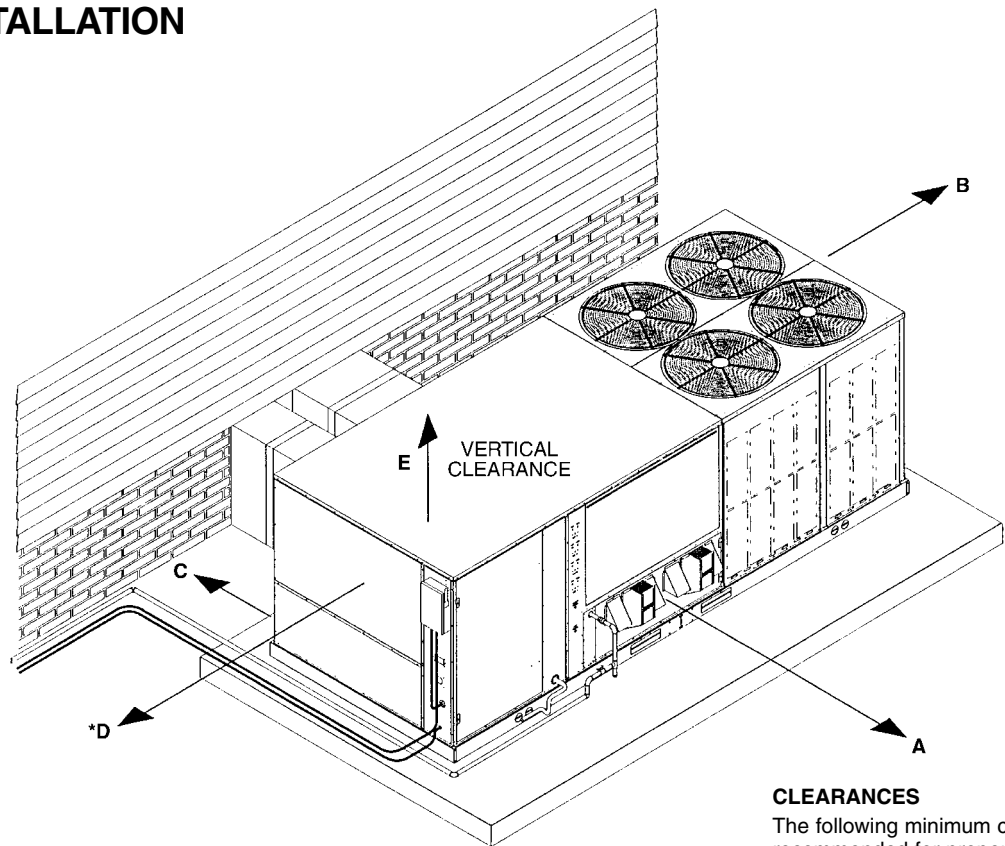
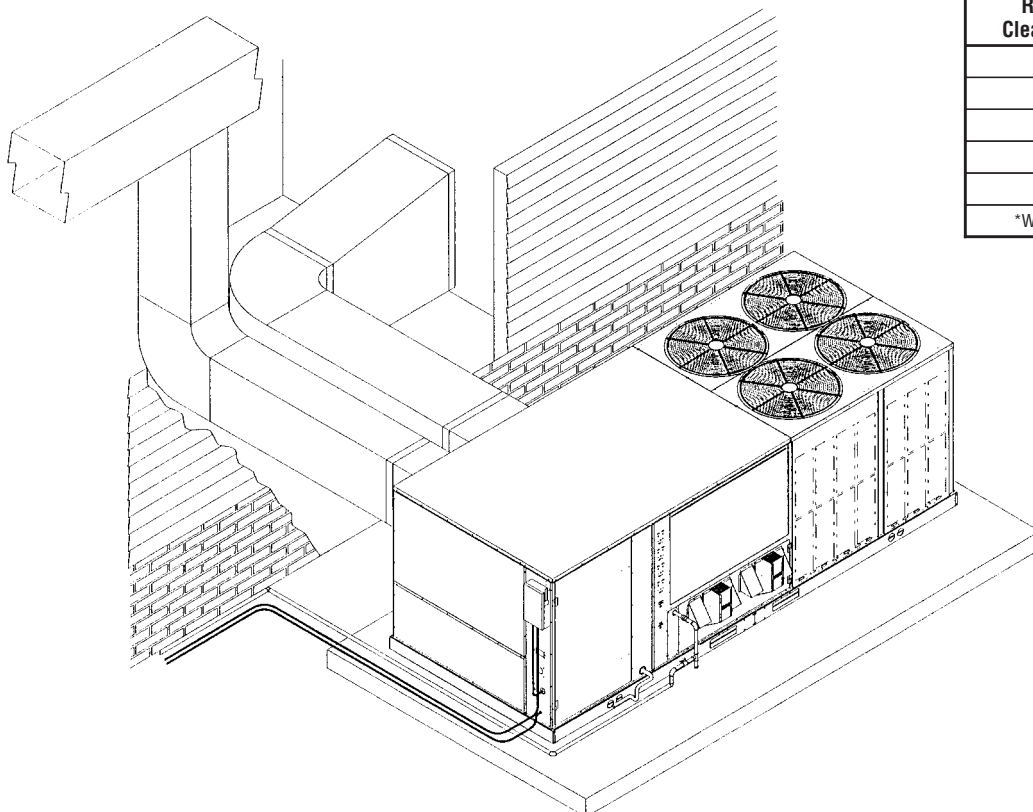


Illustration
ST-A0886-09

CLEARANCES

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

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



[] Designates Metric Conversions

Illustration
ST-A0886-08

FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Thermostat	See Thermostat Specification Sheet (T11-001)			No
Economizer w/Single Enthalpy	RXRD-MFCM3	155 [70.3]	146 [66.2]	Yes
Dual Enthalpy Kit	RXRX-AV02	1 [.5]	1 [.5]	No
Horizontal Economizer w/Single Enthalpy	RXRD-NFCM3	155 [70.3]	146 [66.2]	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*	RXRF-HEA1	51 [23.1]	40 [18.1]	No
Motorized Kit for RXRF-HEA1*	RXRX-AT01	46 [20.9]	35 [15.9]	No
Roofcurb, 14"	RXKG-CAF14	170 [77.1]	164 [74.4]	No
Roofcurb Adapters (See Chart on Page 51 for Application)	RXRX-CHCE56	398 [180.5]	373 [169.1]	No
Concentric Diffuser (Step-Down, 18 x 36)	RXRN-AD81	310 [140.6]	157 [71.2]	No
Concentric Diffuser (Step-Down, 24 x 48)	RXRN-AD86	367 [166.4]	212 [96.1]	No
Concentric Diffuser (Flush, 18 x 36)	RXRN-AD80	213 [96.6]	115 [52.2]	No
Concentric Diffuser (Flush, 24 x 48)	RXRN-AD85	270 [122.4]	175 [79.4]	No
Downflow Transition (Rect. to Rect., 18 x 36)	RXMC-CG07	81 [36.7]	65 [29.5]	No
Downflow Transition (Rect. to Rect., 24 x 48)	RXMC-CG08	76 [34.4]	53 [24.0]	No
Compressor Time-Delay Relay Kit	RXMD-A05	2 [1.0]	1 [.5]	Yes
Low-Ambient Control Kit	RXRZ-A90	3 [1.4]	2 [1.0]	Yes
Freeze-Stat Kit	RXRX-AM01	1 [.5]	0.5 [.2]	Yes

*RXRX-AT01 Motorized Kit and a RXRF-HEA1 Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection.

[] Designates Metric Conversions

THERMOSTATS



300-Series *
Deluxe Programmable



200-Series *
Programmable



100-Series *
Non-Programmable

400-Series *
Special Applications/Programmable

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

* Photos are representative. Actual models may vary.

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

ECONOMIZERS

Use to Select Factory Installed Options Only

- RXRD-MFCM3—Single Enthalpy (Outdoor)
- RXXR-AV02—Dual Enthalpy Upgrade Kit
- RXXR-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

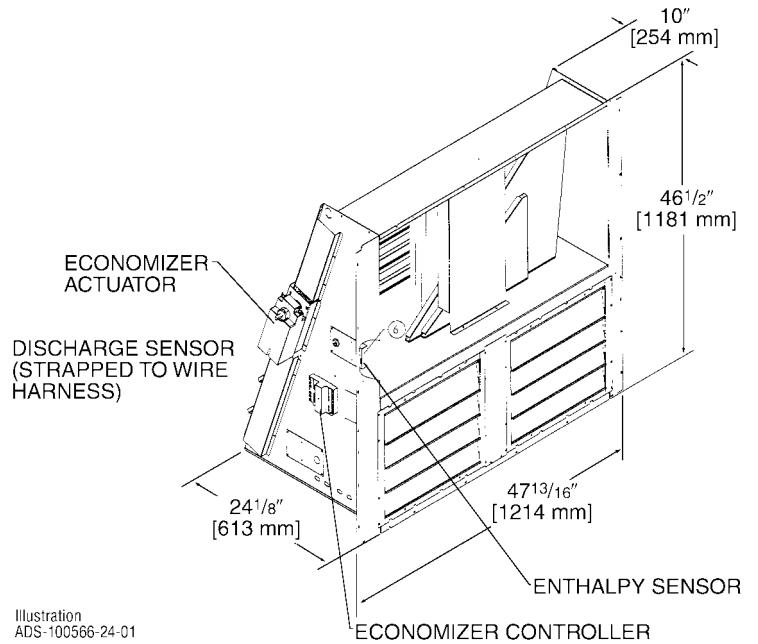


Illustration
ADS-100566-24-01

TOLERANCE +.125

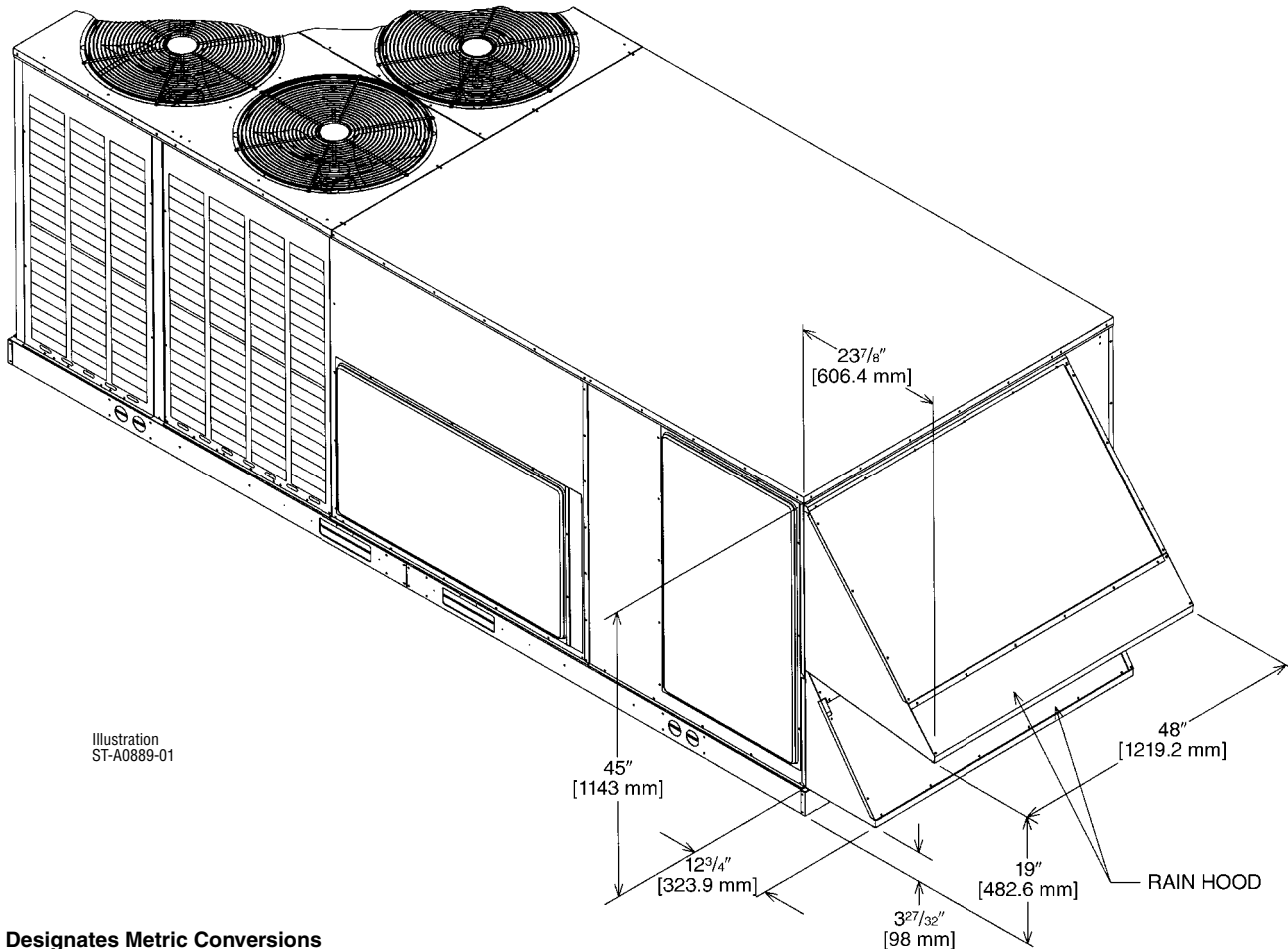


Illustration
ST-A0889-01

[] Designates Metric Conversions

ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

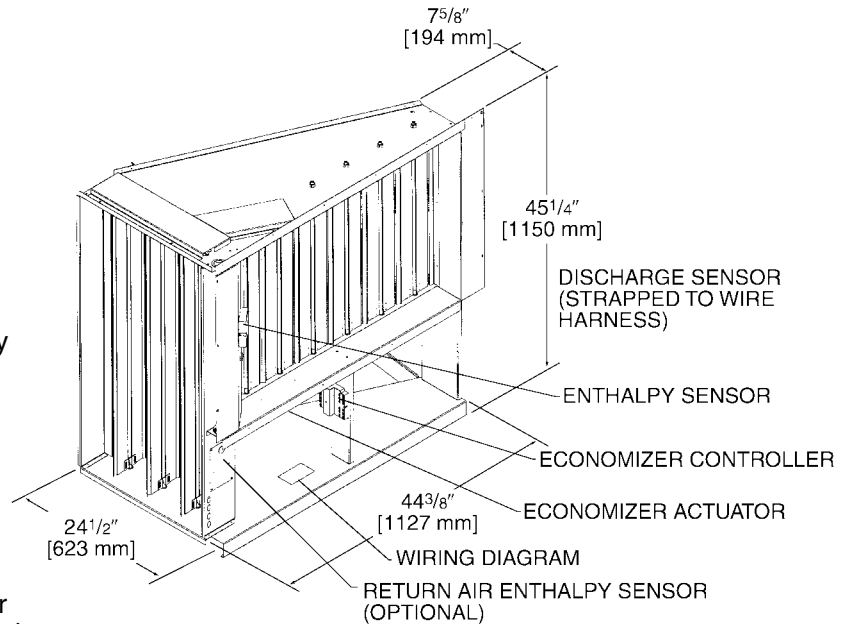
Field Installed Only

RXRD-NFCM3—Single Enthalpy (Outdoor)

RXXR-AV02—Dual Enthalpy Upgrade Kit

RXXR-AR02—Wall-mounted CO₂ Sensor

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



TOLERANCE ± .125

Illustration
ADS-100566-26-01

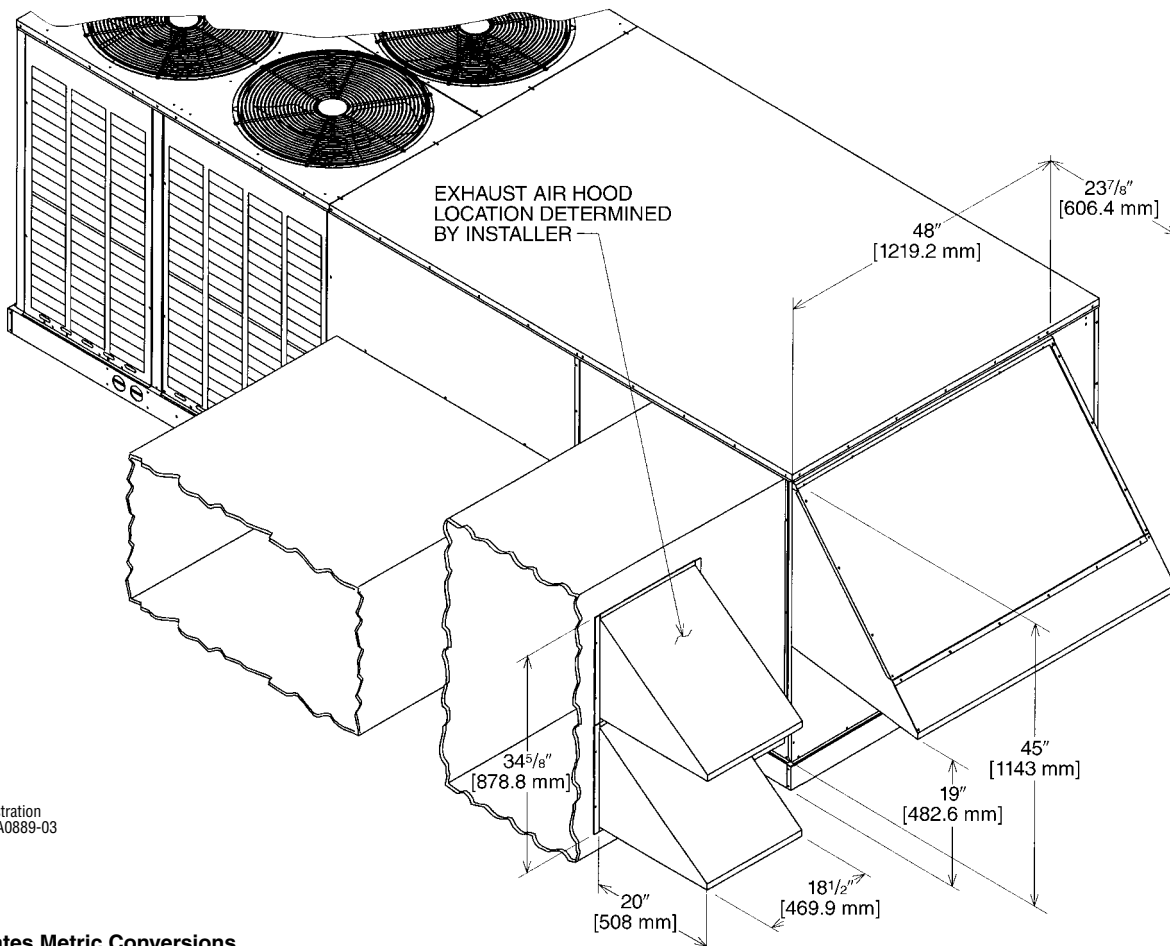


Illustration
ST-A0889-03

[] Designates Metric Conversions

POWER EXHAUST KIT FOR RXRD-MFCM3(-), RXRD-NFCM3(-) ECONOMIZERS

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

*Voltage Code

VERTICAL AIRFLOW

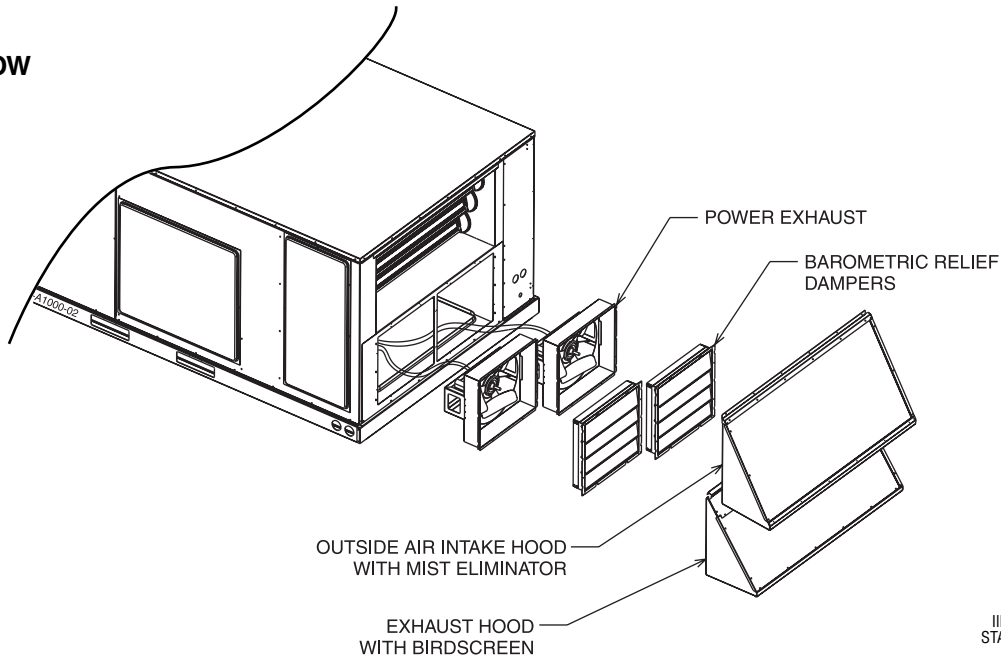


Illustration
STA1000-02

HORIZONTAL AIRFLOW

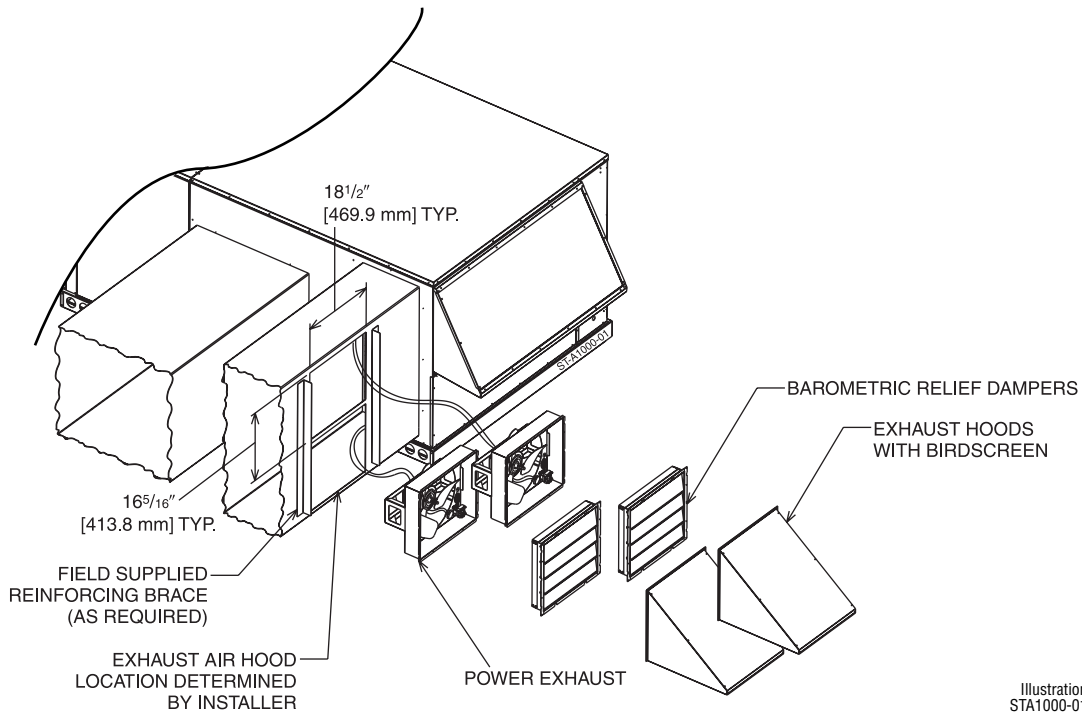


Illustration
STA1000-01

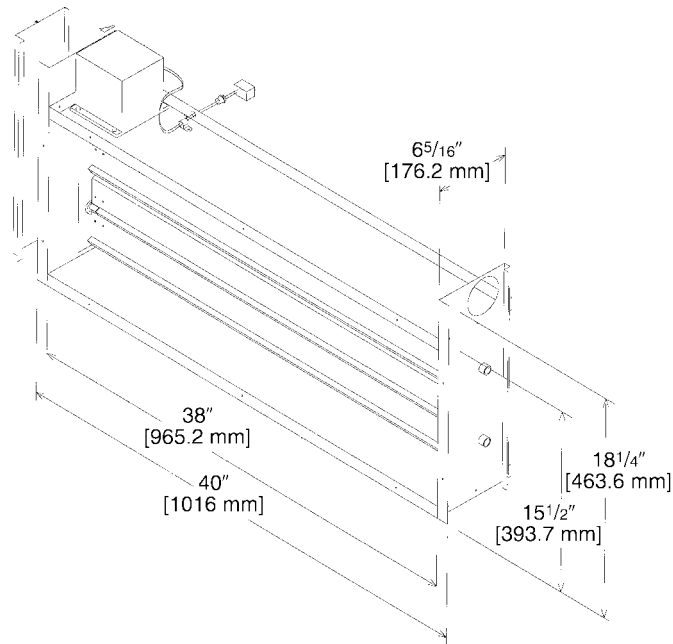
Model No.	No. of Fans	Volts	Phase	HP (ea.)	Low Speed		High Speed ①		FLA (ea.)	LRA (ea.)
					CFM [L/s] ②	RPM	CFM [L/s] ②	RPM		
RXXR-BFF02C	2	208-230	1	0.33	2200 [1038]	1518	2500 [1179]	1670	1.48	3.6
RXXR-BFF02D	2	460	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.75	1.8
RXXR-BFF02Y	2	575	1	0.33	2200 [1038]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

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

[] Designates Metric Conversions

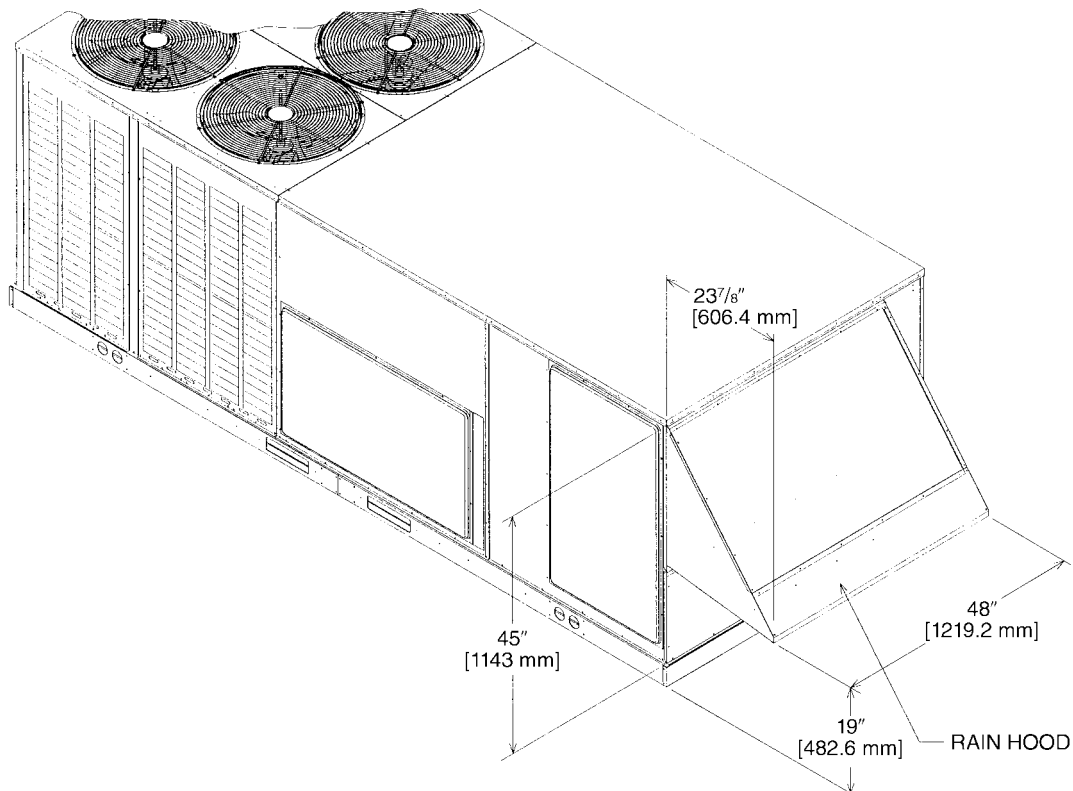
FRESH AIR DAMPER

**MOTORIZED DAMPER KIT
RXRX-ATO1
(Motor Kit for RXRF-HEA1)**



**RXRF-HEA1 (Manual)
RXRX-ATO1 (Motorized damper kit for
manual fresh air damper)**

Illustration
ST-A0889-02



[] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

- Rheem's new roofcurb design can be utilized on 15 and 25 ton [52.8 and 87.9 kW] models.
- One available height (14" [356 mm]).
- Quick assembly corners for simple and fast assembly
- 1" [25.4 mm] x 4" [102 mm] Nailers provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

ROOFCURB ASSEMBLY

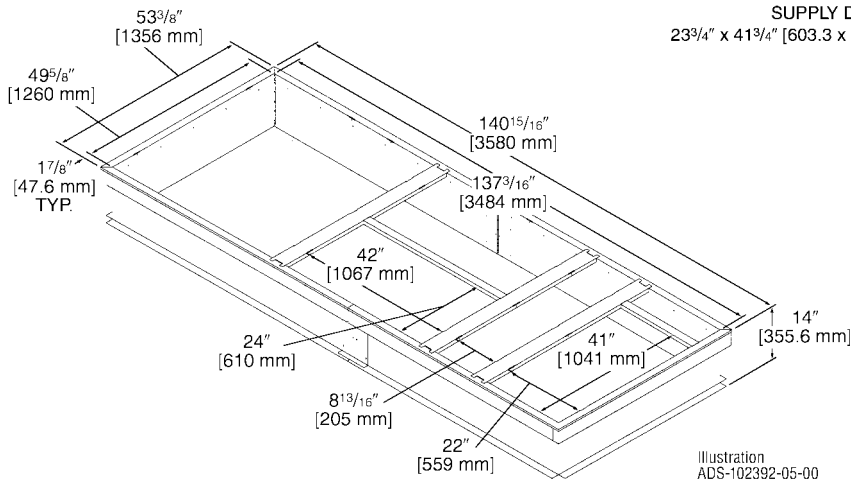
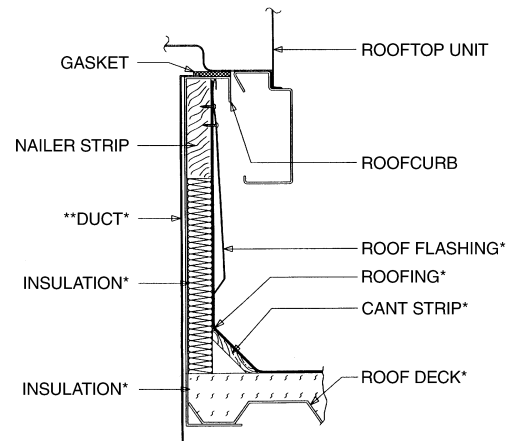
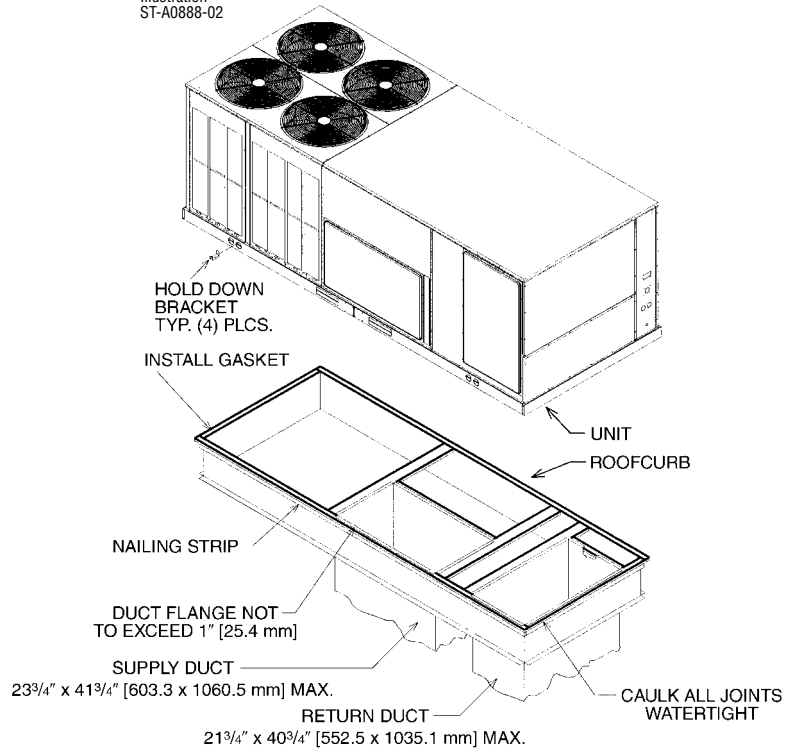


Illustration
ADS-102392-05-00

TYPICAL INSTALLATION

Illustration
ST-A0888-02



*BY CONTRACTOR

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

Illustration
ST-A0743-02

[] Designates Metric Conversions

ROOFCURB ADAPTER

OLD MODELS

COMMERCIAL CABINET
 (12.5, 15 & 20 TON)
 ([44, 52.8 & 70.3 kW])
 (-)RCF, (-)RGF, (-)REF

OLD CURB MODEL

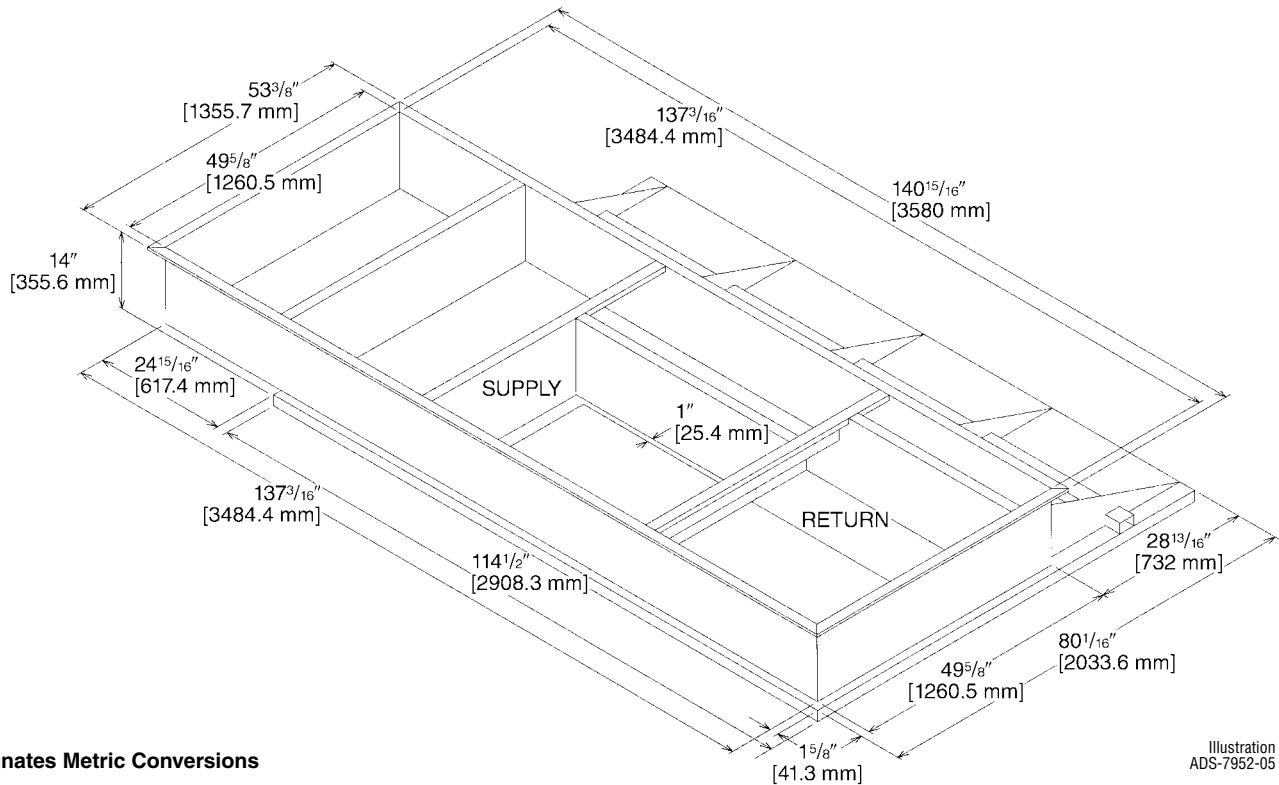
RXRK-E56

ROOFCURB ADAPTER

RXRX-CHCE56

NEW MODEL

(-)KKB, (-)KMB, (-)KNB
 (15, 20 & 25 TON)
 ([52.8, 70.3 & 87.9 kW])



[] Designates Metric Conversions

Illustration
 ADS-7952-05

CONCENTRIC DIFFUSER APPLICATION

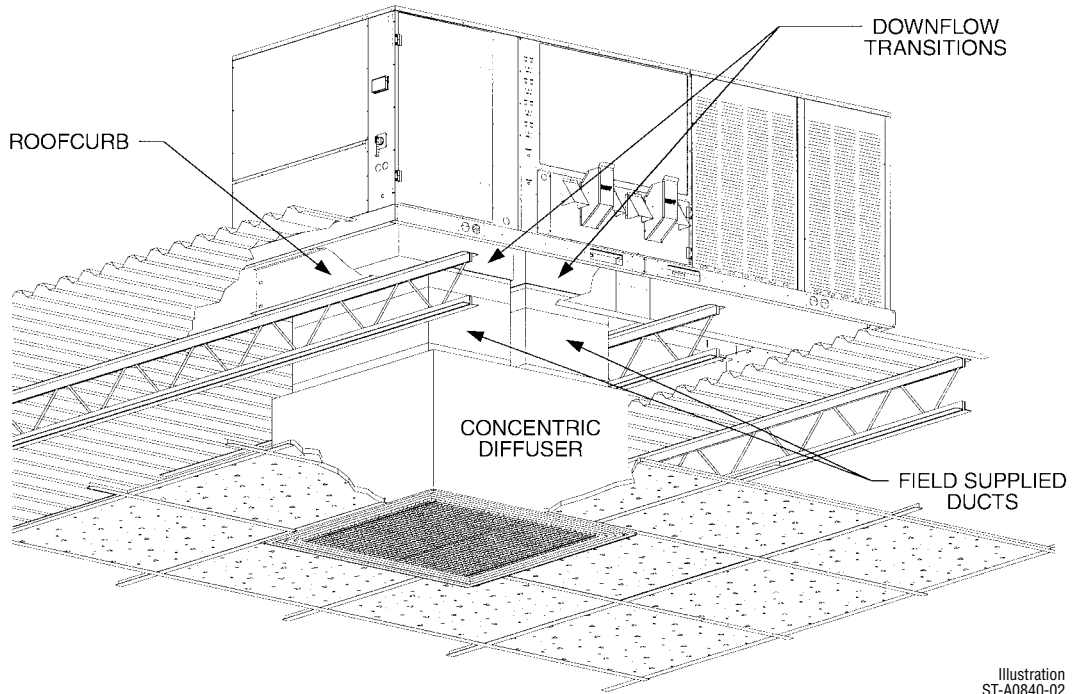
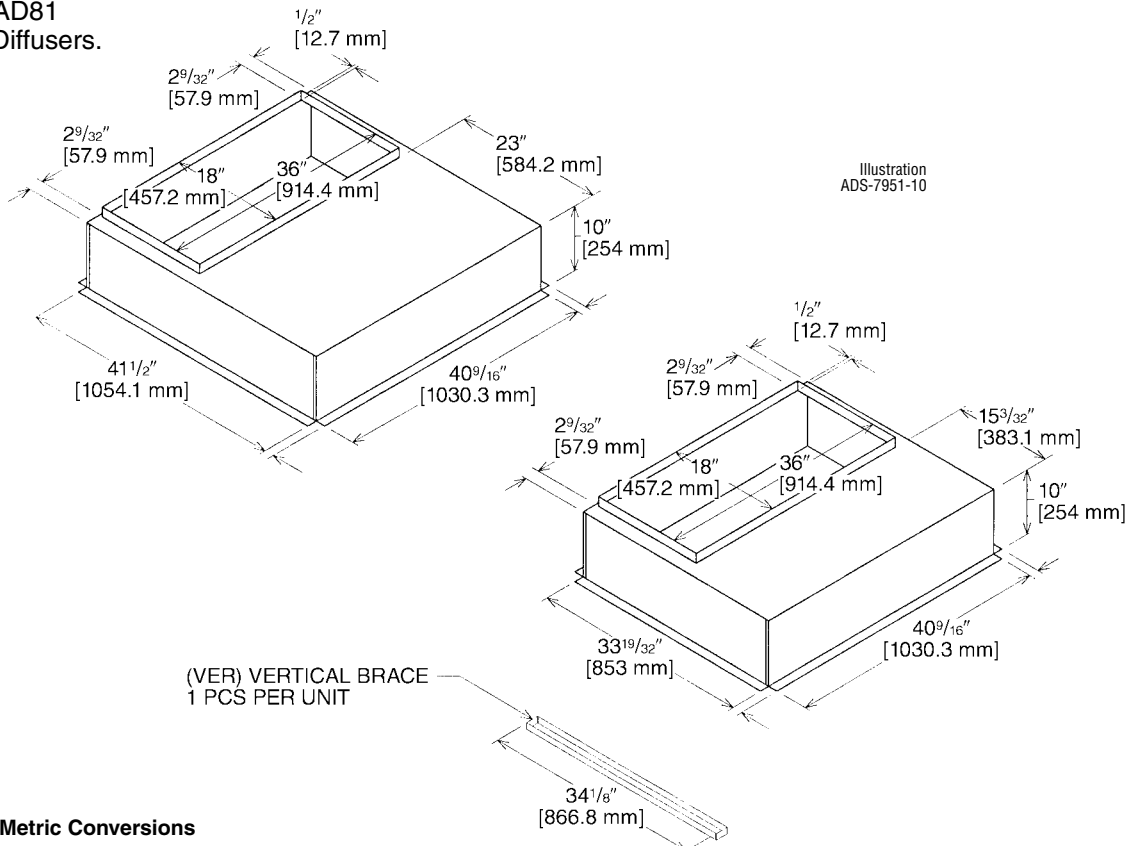


Illustration
ST-A0840-02

DOWNFLOW TRANSITION DRAWINGS

RXMC-CG07 (15 Ton) [52.8 kW]

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

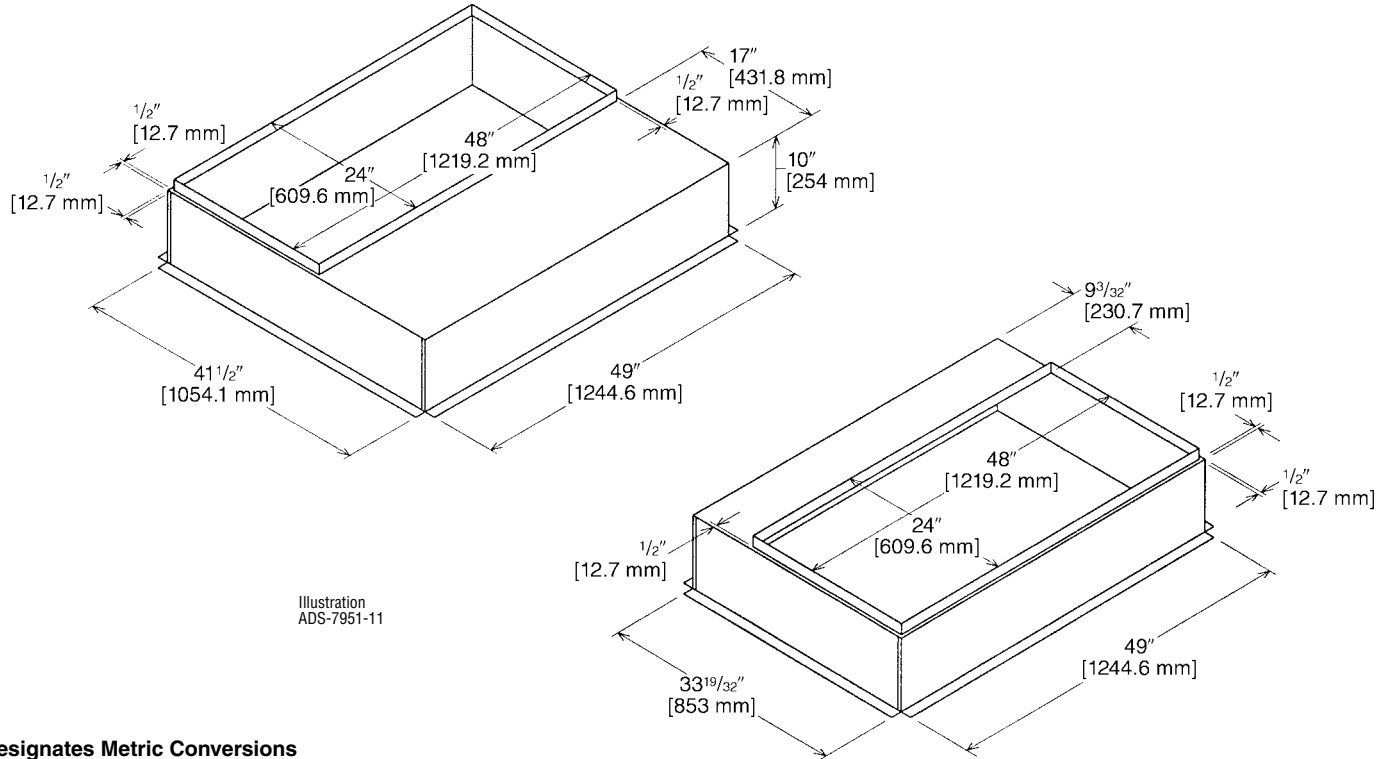


[] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CH08 (20 & 25 Ton) [70.3 & 87.9 kW]

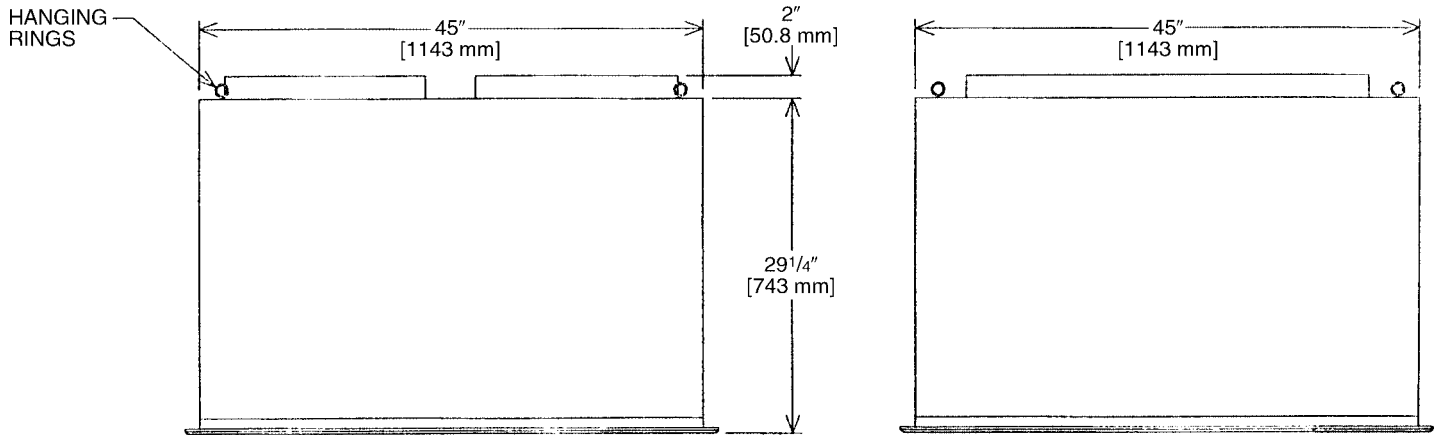
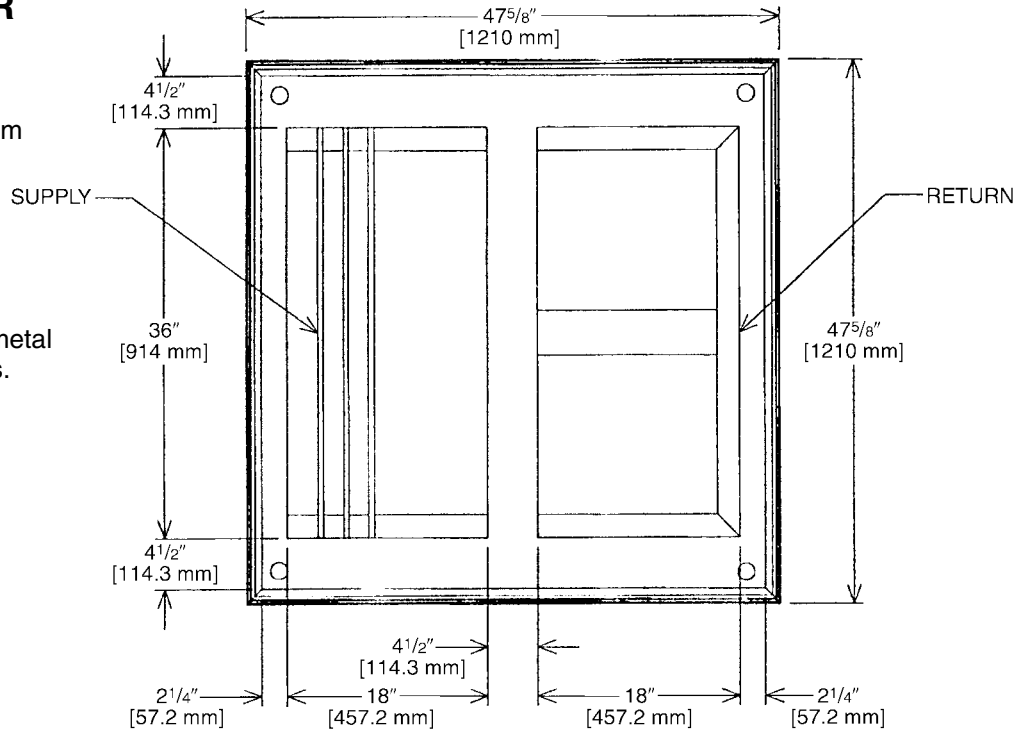
- Used with RXRN-AD85 and RXRN-AD86 Concentric Diffusers.



[] Designates Metric Conversions

CONCENTRIC DIFFUSER RXRN-AD80 SERIES 15 TON [52.8 kW] FLUSH

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



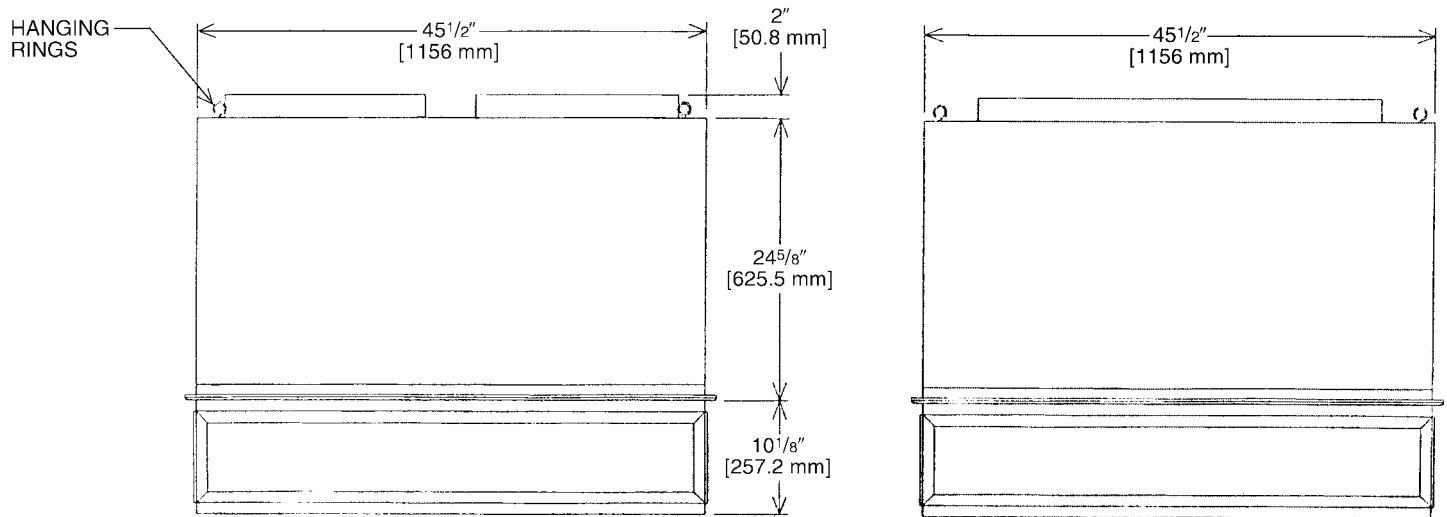
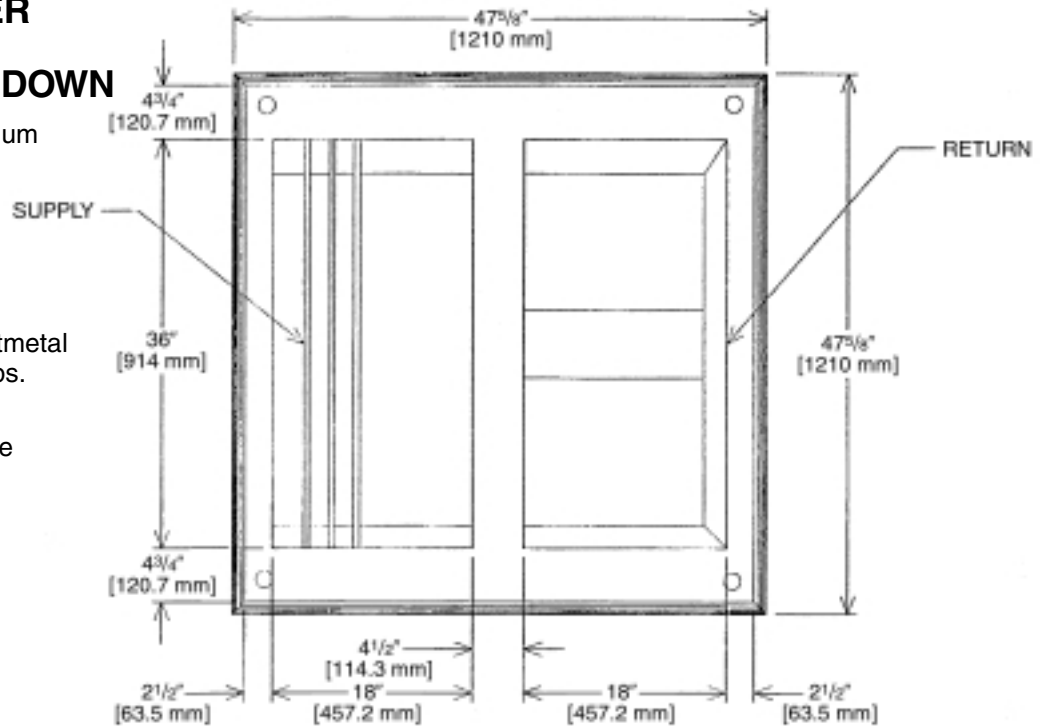
CONCENTRIC DIFFUSER SPECIFICATIONS

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

[] Designates Metric Conversions

CONCENTRIC DIFFUSER RXRN-AD81 SERIES 15 TON [52.8 kW] STEP DOWN

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



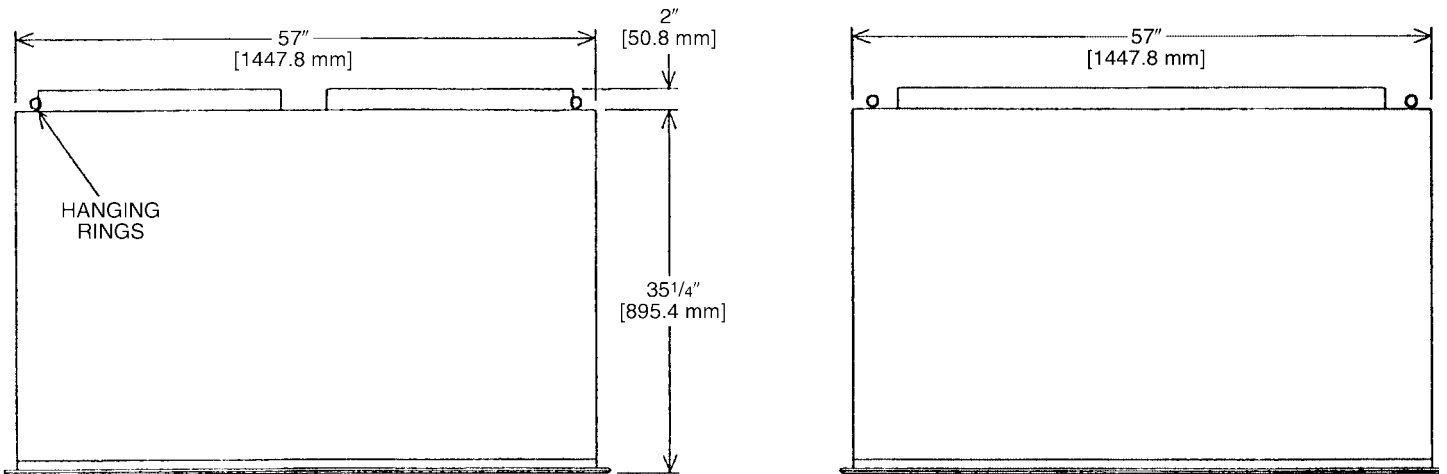
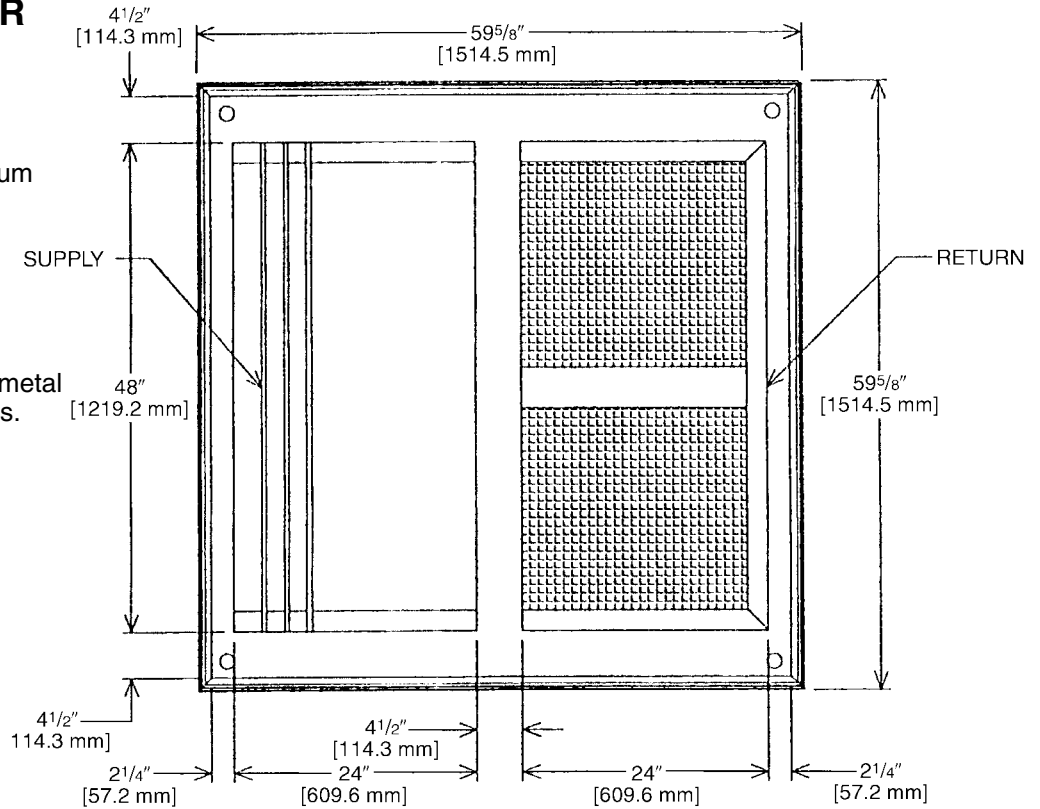
CONCENTRIC DIFFUSER SPECIFICATIONS

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

[] Designates Metric Conversions

CONCENTRIC DIFFUSER RXRN-AD85 SERIES 20 & 25 TON [70.3 & 87.9 kW] FLUSH

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



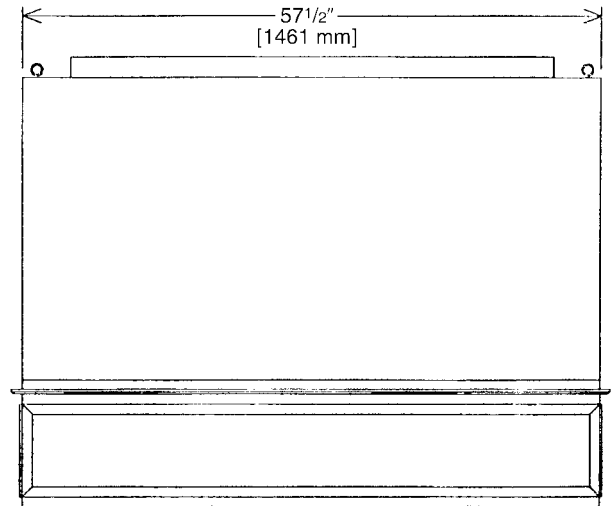
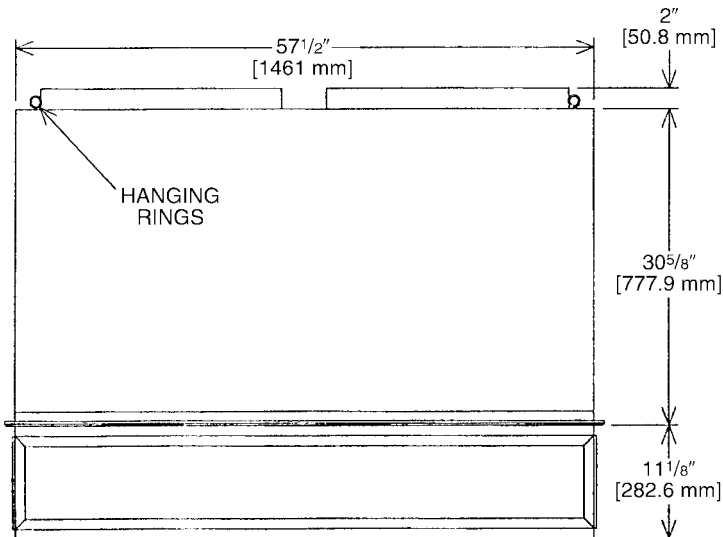
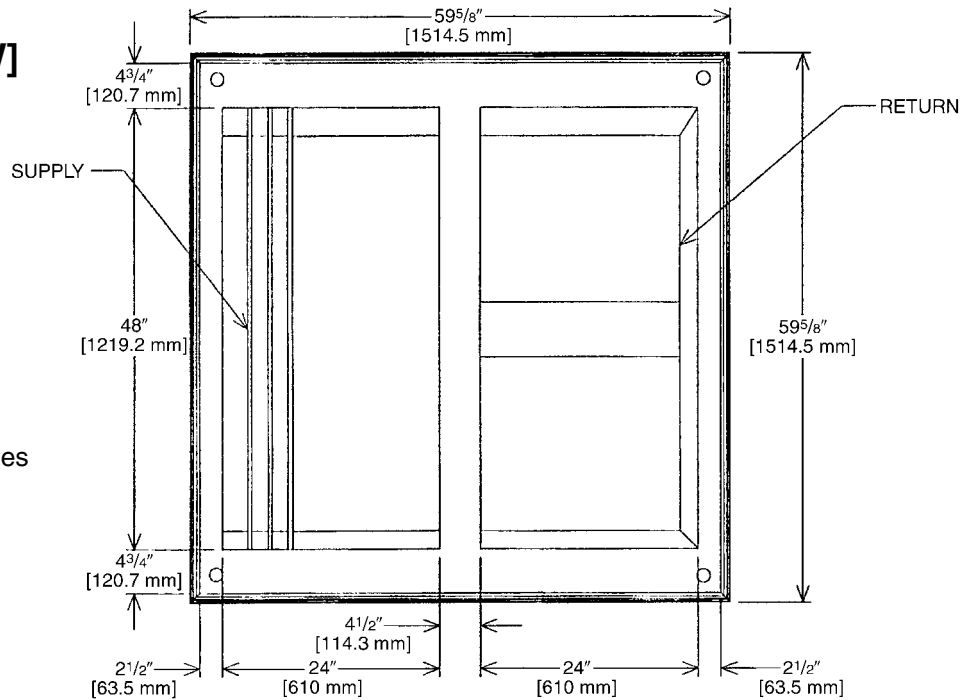
CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD85	7200 [3398]	0.39	26-35	996	2093
	7400 [3492]	0.41	28-37	1024	2151
	7600 [3587]	0.43	29-38	1051	2209
	7800 [3681]	0.47	40-50	1079	2276
	8000 [3776]	0.50	42-51	1107	2326
	8200 [3870]	0.53	43-52	1134	2384
	8400 [3964]	0.56	44-54	1162	2442
	8600 [4059]	0.59	46-57	1189	2500
	8800 [4153]	0.63	48-59	1217	2558

[] Designates Metric Conversions

CONCENTRIC DIFFUSER RXRN-AD86 SERIES 20 & 25 TON [70.3 & 87.9 kW] STEP DOWN

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



CONCENTRIC DIFFUSER SPECIFICATIONS

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

[] Designates Metric Conversions



General

Units shall be convertible airflow. Operating range for units with electromechanical controls shall be between 125°F (51.7°C) and 50°F (4.4°C). Cooling performance shall be rated in accordance with DOE and/or ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-22, and 100 percent run-tested before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be UL listed and labeled, classified in accordance to ANSI-Z21.47 for gas fired central furnaces and UL 1995/CAN/CSA No. 236-M90 for central cooling air conditioners. Canadian units shall be CUL certified.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 1000 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. All exposed vertical panels and top covers in the indoor air section shall be insulated with a cleanable foil faced, fire retardant permanent, odorless glass fiber material and secured with adhesive and mechanical fasteners. The base of the unit shall be insulated with foil-faced material. All insulation edges shall be either captured or sealed. The unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1-1/8" [28.58 mm] high downflow supply return openings to provide an added water integrity precaution. The base rails of the unit shall have provisions for forklift and crane lifting, with forklift capabilities on three sides of the unit.

Unit Top

The indoor top cover shall be one-piece construction, it shall not be double-hemmed and gasket-sealed.

Filters

Two inch [50.8 mm], throwaway filters shall be standard on all units.

Compressors

Units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads shall be provided with the scroll compressors. The compressor shall have external isolation to minimize noise.

Refrigerant Circuits

Each refrigerant circuit shall have capillary tubes expansion device. Service pressure ports, shall be factory-installed as standard.

Evaporator And Condenser Coils

Internally finned, 3/8" [9.53 mm] copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. Coils shall be leak tested at the factory to ensure pressure integrity. The evaporator coil and condenser coil shall be leak tested to 200 psig and pressure tested to 450 psig. A sloped condensate drain pan shall be standard.

Gas Heating Section

The heating section shall have a tubular heat exchanger design using Rheem exclusive burners and corrosion resistant steel throughout. An induced draft combustion blower shall be used to pull the combustion products through the firing tubes. The heater shall use a direct spark ignition (DSI) system and Remote Flame Sense. On initial call for heat, the combustion blower shall purge the heat exchanger for 30 seconds before ignition after two unsuccessful ignition attempts on low fire and two unsuccessful attempts on high fire, the entire heating system shall be locked out for one hour or until manually reset at the thermostat/zone sensor. Units shall be suitable for use with natural gas or propane (field-installed kit).

Outdoor Fans

The outdoor fans shall be direct-drive statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

Indoor Fans

All 3-phase units offer belt drive, FC centrifugal fans with adjustable motor sheaves. All motors shall be thermally protected. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Controls

Unit shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Units shall provide an external location for mounting a fused disconnect device.

24-volt electromechanical control circuit shall include control transformer and contactor pressure lugs for power wiring. Unit shall have single point power entry as standard.

Accessories/Option

Roof Curb—The roof curb shall be designed to mate with the unit's downflow supply and return openings and provide support and a watertight installation when installed properly. The roof curb design shall allow field-fabricated rectangular supply/return ductwork to be connected directly to the curb. Curb design shall comply with NRCA requirements. Curbs shall be shipped knocked down for toolless field assembly and shall include wood nailer strips.

Economizer—This accessory shall be either field or factory-installed and is available with barometric relief standard. The assembly includes direct drive gear driver, fully modulating 0-100 percent motor and dampers, minimum position setting, mixed air sensor, wiring harness with plug, and single enthalpy control. Optional differential enthalpy control shall be field-installed. The factory-installed economizer arrives ready for operation.

Remote Potentiometer—Field installed, the minimum position setting of economizer shall be adjusted with this accessory.

Motorized Outside Air Dampers

Field-installed manually set outdoor air dampers shall provide up to 50 percent outside air. Once set, outdoor air dampers shall open to set position when indoor fan starts. The damper shall close to the full closed position when indoor fan shuts down.

Manual Outside Air Damper—Factory or field-installed rain hood and screen shall provide up to 50 percent outside air.

Oversized Motors—Factory installed belt drive oversized motors shall be available for high static applications.



Powered Exhaust—The field installed powered exhaust, available for all units, shall provide exhaust of return air, when using an economizer, to maintain better building pressurization.

Through the Base Electrical Access—An electrical service entrance shall be factory provided allowing electrical access for both control and main power connection inside the curb and through the base of the unit. Option will allow for field installation of liquid-tight conduit and an external field-installed disconnect switch.

Through the Base Electrical with Disconnect Switch—Factory-installed 3-pole, molded case disconnect switch with provisions for through the base electrical connections are available. The disconnect switch will be installed in the unit in a water-tight enclosure with access through a hinged door. Factory wiring will be provided from the switch to the unit high voltage terminal block. The switch will be UL/CSA agency recognized. Note: The disconnect switch will be sized per NEC and UL guidelines but will not be used in place of unit over current protection.

Unpowered Convenience—This factory-installed option is a GFCI, 120v/15amp, 2 plug, and convenience outlet, unpowered. When the convenience outlet is powered, a service receptacle disconnect will be available. The convenience outlet is powered from the line side of the disconnect or circuit breaker, and therefore will not be affected by the position of the disconnect or circuit breaker. This option can only be ordered with the Disconnect Switch.

Through the Base Gas Piping—The unit shall include a standard through the base gas provision.

Freeze/Clogged Filter Switches—This factory or field-installed option allows for individual fan failure or dirty filter protection. If indoor coil gets too cold due to low airflow, compressor operation will be temporarily interrupted.

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

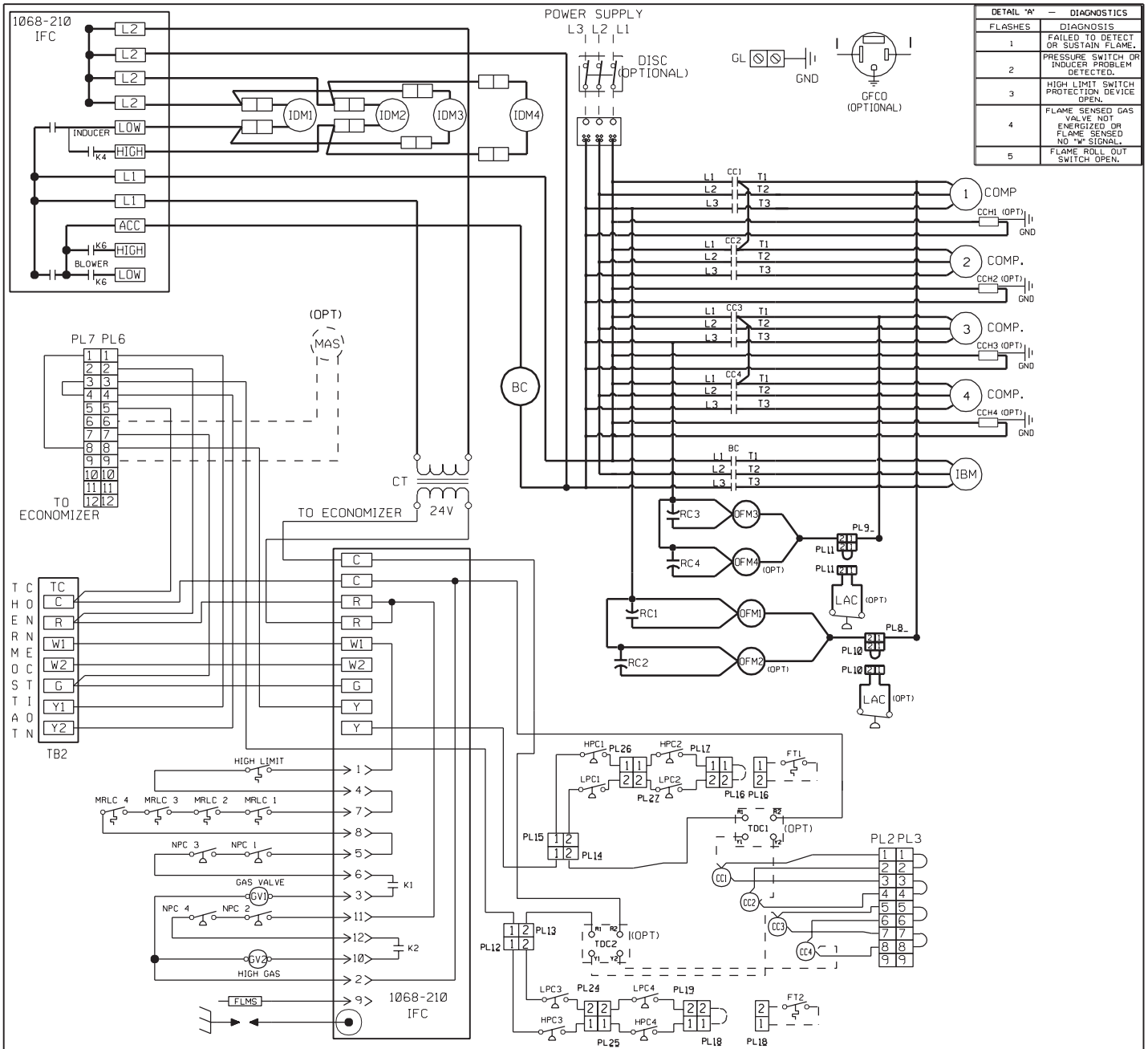
High Pressure Cutout—This factory or field installed option is offered for units that do not have high pressure cutout as standard. All scroll compressors shall include Internal Pressure Relief as standard.

Hinged Access Doors—Stainless steel metal hinges are standard on the Filter/Electrical Access Door and Heat Exchanger door.

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

Differential Enthalpy—Adds on to the standard single control with other enthalpy sensors that compare total heat content of the indoor air and outdoor air to determine the most efficient air source. This control option offers the highest level of comfort control, plus energy efficiency available.

Low Ambient Cooling—Electromechanical models have cooling capabilities to 40°F as built, or to 0°F by adding the optional low ambient (frostat) control.



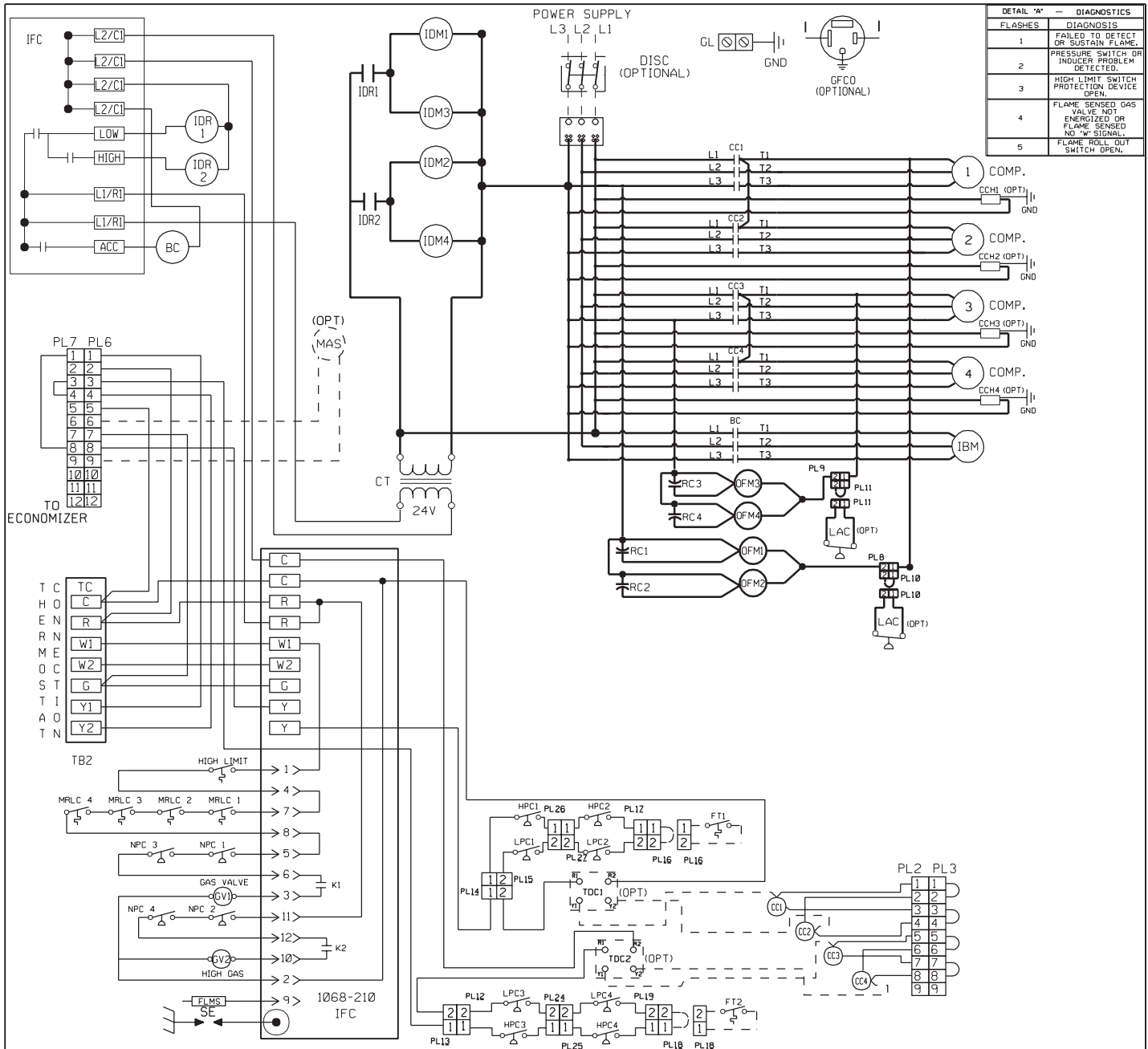
DWG. NO. 90-42517-12	COMPONENT CODE	
	BC	BLOWER CONTACTOR
	CC	COMPRESSOR CONTACTOR
	CCH	CRANKCASE HEATER
	COMP	COMPRESSOR
	CT	CONTROL TRANSFORMER
	DISC	DISCONNECT SWITCH
	FLMS	FLAME SENSOR
	GFCO	GROUND FAULT CONVENIENCE OUTLET
	GL	GROUND LUG
	GND	GROUND
	GV	GAS VALVE
	HPC	HIGH PRESSURE CONTROL
	IBM	INDOOR BLOWER MOTOR BELT DRIVE
	IDM	INDUCED DRAFT MOTOR
IFC	INTERGRATED FURNACE CONTROL	
LAC	LOW AMBIENT COOLING CONTROL	
LC	LIMIT CONTROL	
LPC	LOW PRESSURE CONTROL	
MAS	MIX AIR SENSOR	
REV 04	MRLC	MANUAL RESET LIMIT CONTROL
	NPC	NEGATIVE PRESSURE CONTROL
	OFM	OUTDOOR FAN MOTOR
	RC	RUN CAPACITOR
	SE	SPARK ELECTRODE
	TB	TERMINAL BLOCK
	TDC	TIME DELAY CONTROL
	PL	PLUG

WIRING INFORMATION	
LINE VOLTAGE	_____
-FACTORY STANDARD	_____
-FIELD INSTALLED	_____
LOW VOLTAGE	_____
-FACTORY STANDARD	_____
-FIELD INSTALLED	_____
REPLACEMENT WIRE	_____
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)	
WARNING	
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.	

WIRE COLOR CODE	
BK__BLACK	O__ORANGE
BR__BROWN	PR__PURPLE
BL__BLUE	R__RED
G__GREEN	W__WHITE
GY__GRAY	Y__YELLOW
WIRING SCHEMATIC	
208 - 230, 3 PH, 60 HZ.&	
200 - 220, 3 PH, 50 HZ.	
ROOFTOP	
DR. BY	JHB
APP. BY	
DATE	10-1-99
DWG. NO.	90-42517-12
REV	04



WIRING SCHEMATICS—RKKB/RKMB- SERIES



COMPONENT CODE	
BC	BLOWER CONTACTOR
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
FT	FREEZE STAT
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
GV	GAS VALVE
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR BELT DRIVE
IDM	INDUCED DRAFT MOTOR
IDR	INDUCED DRAFT RELAY
IFC	INTERGRATED FURNACE CONTROL
LC	LIMIT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIX AIR SENSOR
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE CONTROL
OFM	OUTDOOR FAN MOTOR
RC	RUN CAPACITOR
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL
PL	PLUG

WIRING INFORMATION

LINE VOLTAGE
 -FACTORY STANDARD _____
 -FACTORY OPTION _____
 -FIELD INSTALLED _____

LOW VOLTAGE
 -FACTORY STANDARD _____
 -FACTORY OPTION _____
 -FIELD INSTALLED _____

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

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

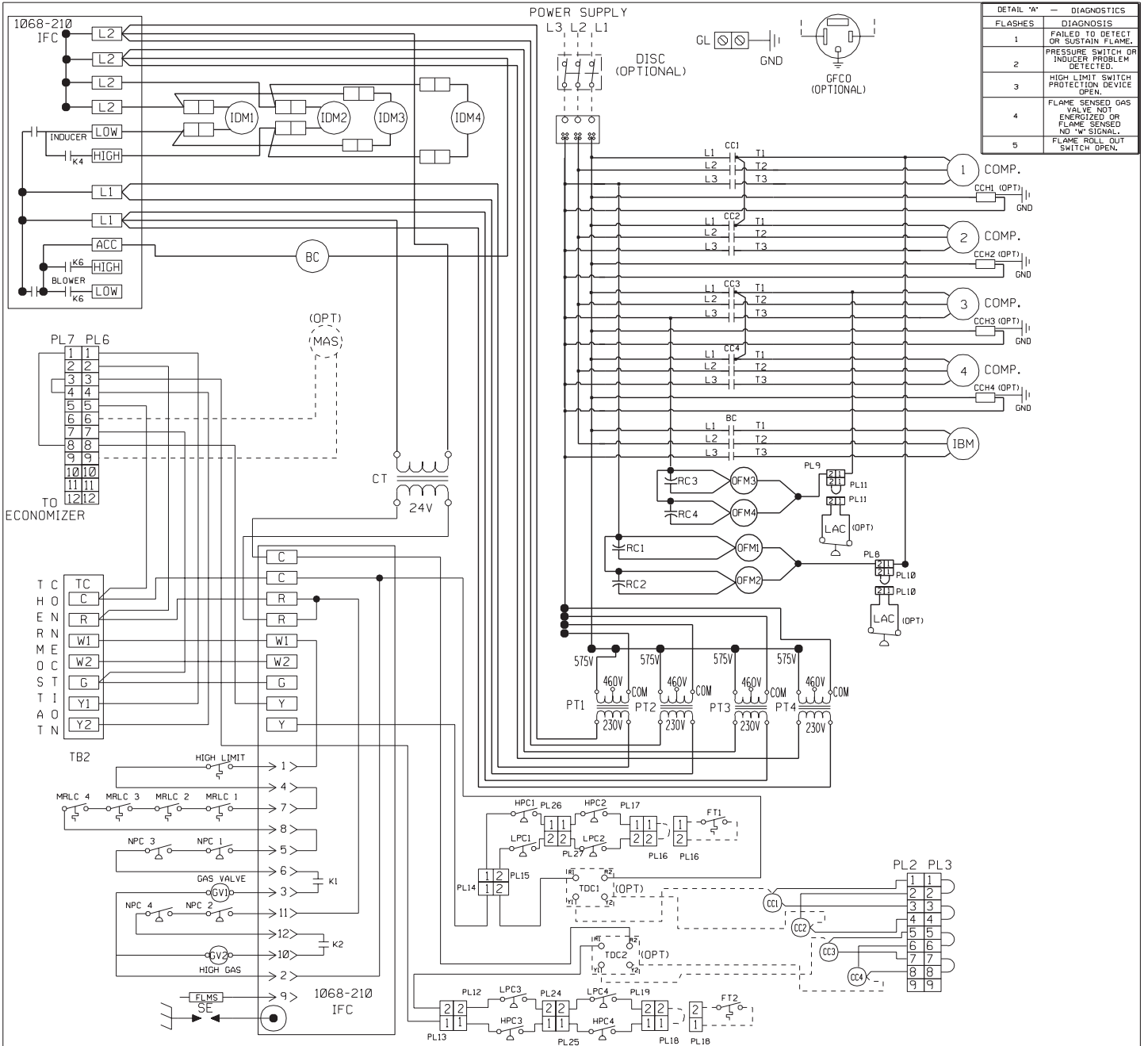
WIRE COLOR CODE	
BK__BLACK	O__ORANGE
BR__BROWN	PR__PURPLE
BL__BLUE	R__RED
G__GREEN	W__WHITE
GY__GRAY	Y__YELLOW

WIRING SCHEMATIC

460,V 3 PH, 60 HZ.,
380-415V, 3 PH, 50 HZ.

DR. BY	APP. BY	DATE	DWG. NO.	REV
JHB		2-28-01	90-42517-18	02

WIRING SCHEMATICS—RKKB/RKMB- SERIES



DETAIL "A" — DIAGNOSTICS	
FLASHES	DIAGNOSIS
1	FAILED TO DETECT OR SUSTAIN FLAME.
2	PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
3	HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4	FLAME SENSED GAS VALVE NOT ENERGIZED OR FLAME SENSED NO "W" SIGNAL.
5	FLAME ROLL OUT SWITCH OPEN.

COMPONENT CODE	
BC	BLOWER CONTACTOR
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
FT	FREEZE STAT
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
GV	GAS VALVE
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR BELT DRIVE
IDM	INDUCED DRAFT MOTOR
IFC	INTERGRATED FURNACE CONTROL
LC	LIMIT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIX AIR SENSOR
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE CONTROL
OFM	OUTDOOR FAN MOTOR
RC	RUN CAPACITOR
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL
PL	PLUG

WIRING INFORMATION	
LINE VOLTAGE	_____
-FACTORY STANDARD	_____
-FACTORY OPTION	-----
-FIELD INSTALLED	-----
LOW VOLTAGE	_____
-FACTORY STANDARD	_____
-FACTORY OPTION	-----
-FIELD INSTALLED	-----
REPLACEMENT WIRE	_____
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)	
WARNING	
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.	

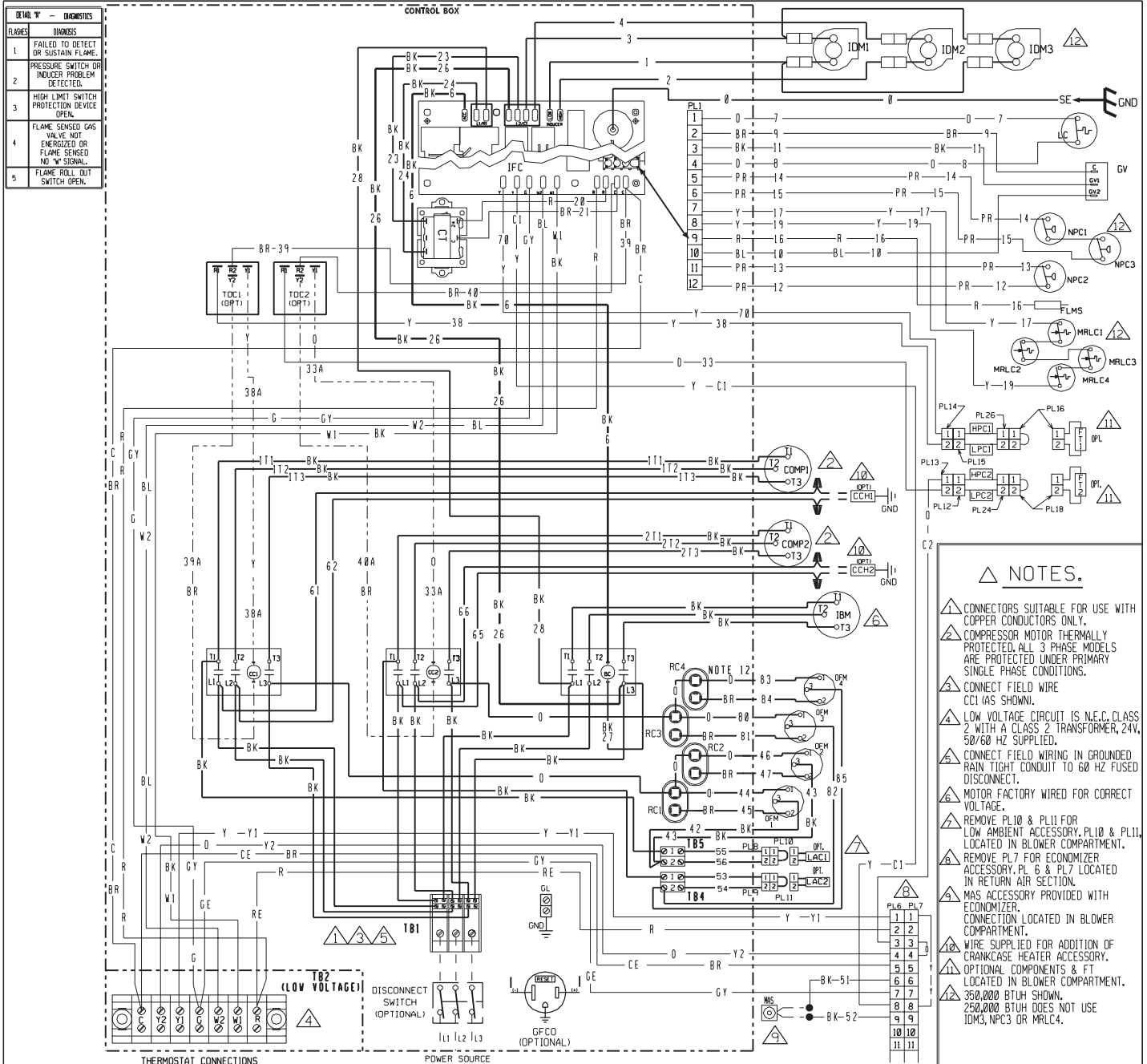
WIRE COLOR CODE			
BK	BLACK	O	ORANGE
BR	BROWN	PR	PURPLE
BL	BLUE	R	RED
G	GREEN	W	WHITE
GY	GRAY	Y	YELLOW

WIRING SCHEMATIC			
575V, 3 PH, 60 HZ. ROOFTOP			

DR. BY	APP. BY	DATE	DWG. NO.	REV
JHB		10-1-99	90-42517-14	06



WIRING SCHEMATICS—RKNB- SERIES



COMPONENT CODE	MAS	MIX AIR SENSOR
BC	MRLC	MANUAL RESET LIMIT CONTROL
CC	NPC	NEGATIVE PRESSURE CONTROL
CCH	OFM	OUTDOOR FAN MOTOR
COMP	RC	RUN CAPACITOR
CT	SE	SPARK ELECTRODE
CT	TB	TERMINAL BLOCK
CT	TDC	TIME DELAY CONTROL
FLMS	PL	PLUG
FT	PT	POWER TRANSFORMER
FT	PT	WIRE NUT
GFCO		
GL		
GND		
GV		
HPC		
IDM		
IDM		
IFC		
LAC		
LC		
LC		
LPC		

WIRING INFORMATION	
LINE VOLTAGE	---
-FACTORY STANDARD	---
-FACTORY OPTION	---
-FIELD INSTALLED	---
LOW VOLTAGE	---
-FACTORY STANDARD	---
-FACTORY OPTION	---
-FIELD INSTALLED	---
REPLACEMENT WIRE	---
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)	
WARNING	
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.	

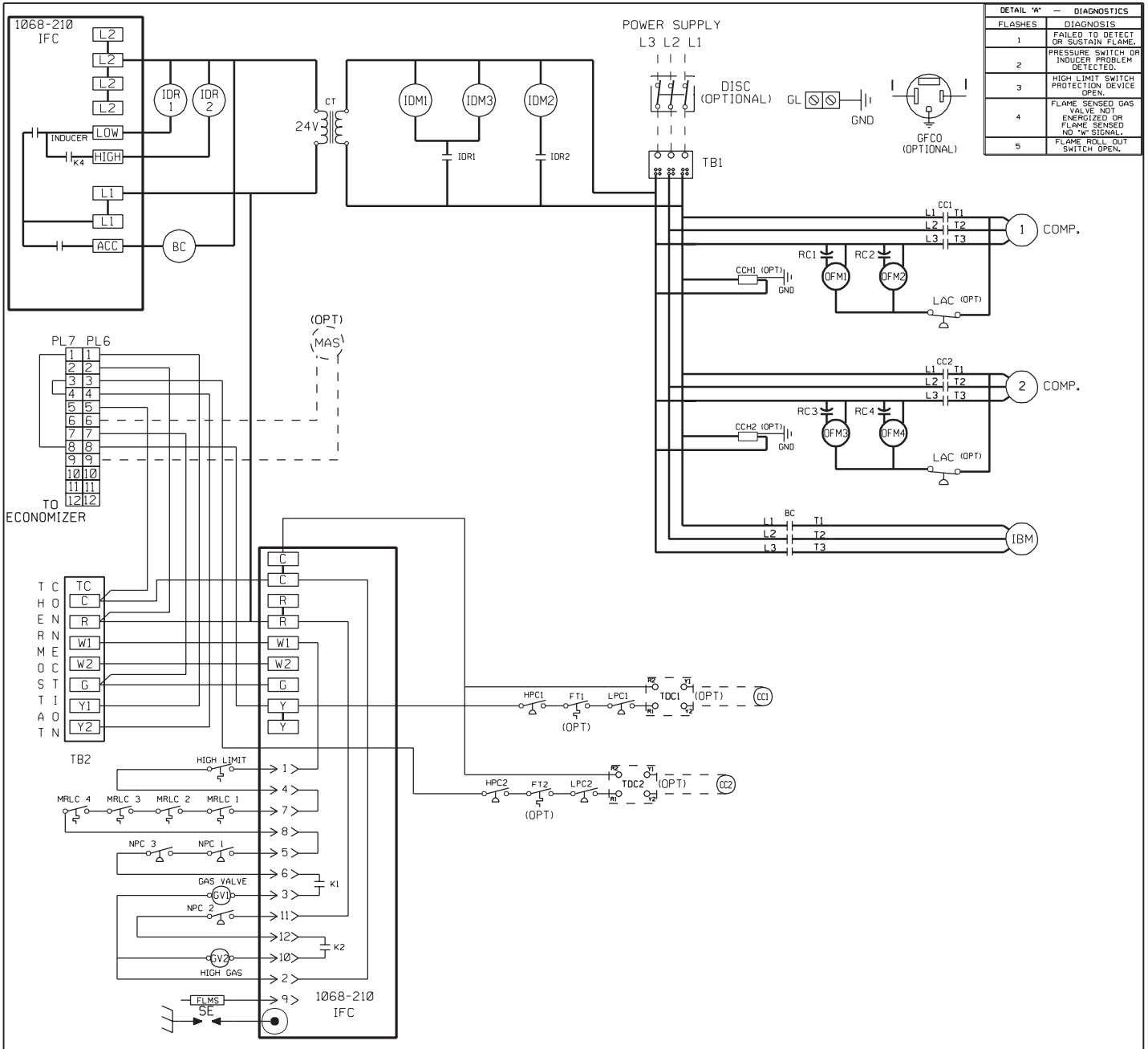
WIRE COLOR CODE			
BK	BLACK	O	ORANGE
BR	BROWN	PR	PURPLE
BL	BLUE	R	RED
G	GREEN	W	WHITE
GY	GRAY	Y	YELLOW

WIRING DIAGRAM	
RKNB-A180	
208-230V 3 PH, 60 HZ.	
ROOFTOP	

DR. BY	APP. BY	DATE	DWG. NO.	REV
JRJ		11-12-03	90-42517-26	02

DWG. NO. 90-42517-26 REV 02

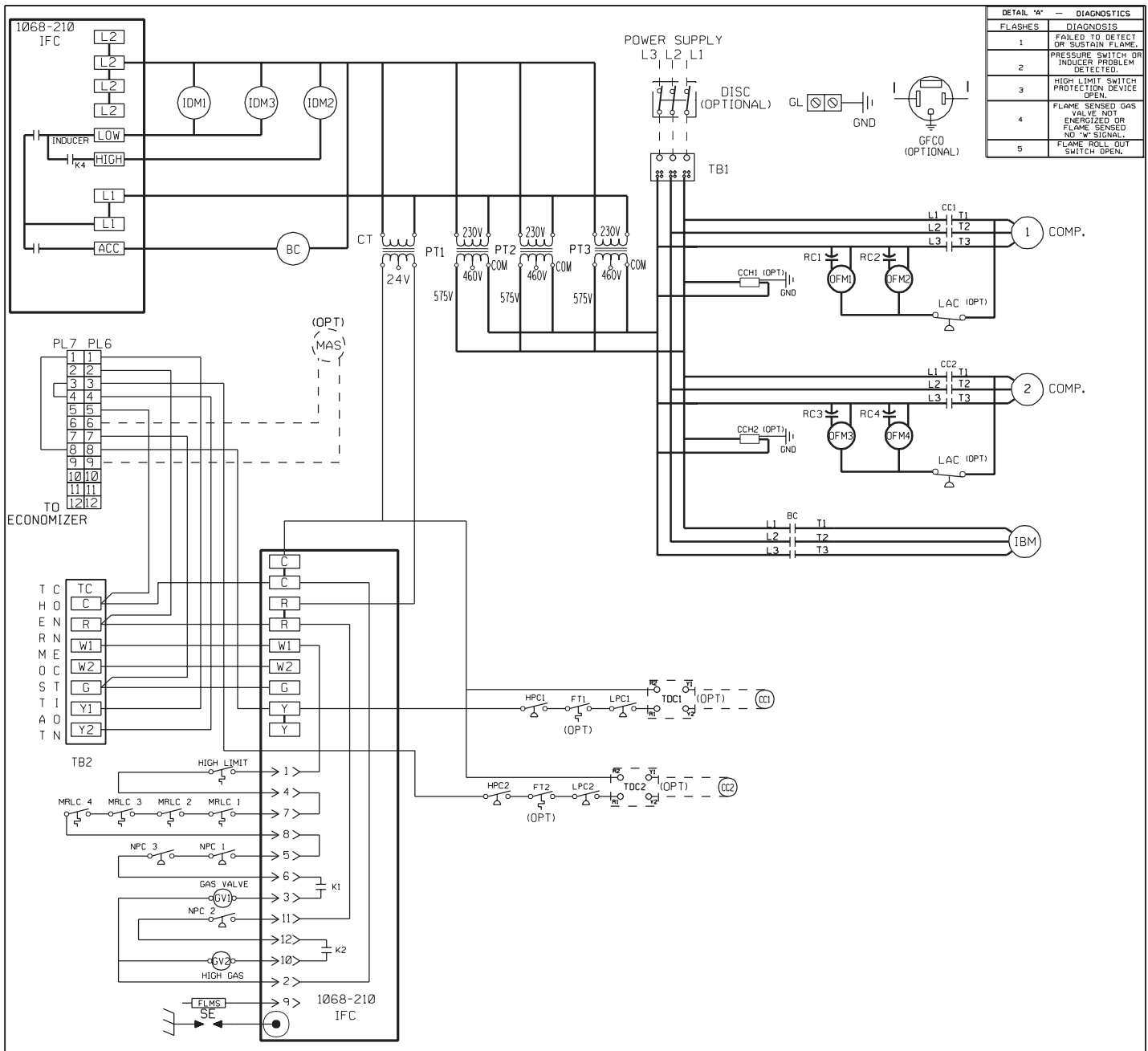
WIRING SCHEMATICS—RKNB- SERIES



DWG. NO. 90-42517-24 REV. 01	COMPONENT CODE BC BLOWER CONTACTOR CC COMPRESSOR CONTACTOR CCH CRANKCASE HEATER COMP COMPRESSOR CT CONTROL TRANSFORMER DISC DISCONNECT SWITCH FLMS FLAME SENSOR FT FREEZE STAT GFCD GROUND FAULT CONVENIENCE OUTLET GL GROUND LUG GND GROUND GV GAS VALVE HPC HIGH PRESSURE CONTROL IBM INDOOR BLOWER MOTOR BELT DRIVE IDM INDUCED DRAFT MOTOR IDR INDUCED DRAFT MOTOR RELAY IFC INTERGRATED FURNACE CONTROL LC LIMIT CONTROL LPC LOW PRESSURE CONTROL	MAS MIX AIR SENSOR MRLC MANUAL RESET LIMIT CONTROL NPC NEGATIVE PRESSURE CONTROL OFM OUTDOOR FAN MOTOR RC RUN CAPACITOR SE SPARK ELECTRODE TB TERMINAL BLOCK TDC TIME DELAY CONTROL PL PLUG	WIRING INFORMATION LINE VOLTAGE -FACTORY STANDARD _____ -FACTORY OPTION - - - - - -FIELD INSTALLED - - - - - LOW VOLTAGE -FACTORY STANDARD _____ -FACTORY OPTION - - - - - -FIELD INSTALLED - - - - - REPLACEMENT WIRE -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.) WARNING -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.	WIRE COLOR CODE BK__BLACK O__ORANGE BR__BROWN PR__PURPLE BL__BLUE R__RED G__GREEN W__WHITE GY__GRAY Y__YELLOW
	WIRING SCHEMATIC RKNB-A180 460V, 3 PH, 60 HZ. ROOF TOP			DR. BY JRJ APP. BY DATE 1-5-03 DWG. NO. 90-42517-24 REV. 01



WIRING SCHEMATICS—RKNB- SERIES



FLASHES	DIAGNOSTICS
1	FAILED TO DETECT OR SUSTAIN FLAME.
2	PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
3	HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4	FLAME SENSED GAS VALVE NOT ENERGIZED OR FLAME SENSED NO "W" SIGNAL.
5	FLAME ROLL OUT SWITCH OPEN.

COMPONENT CODE	
BC	BLOWER CONTACTOR
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
GV	GAS VALVE
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR BELT DRIVE
IDM	INDUCED DRAFT MOTOR
IFC	INTERGRATED FURNACE CONTROL
LC	LIMIT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIX AIR SENSOR
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE CONTROL
OFM	OUTDOOR FAN MOTOR
RC	RUN CAPACITOR
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL
PL	PLUG

WIRING INFORMATION	
LINE VOLTAGE	_____
-FACTORY STANDARD	_____
-FACTORY OPTION	-----
-FIELD INSTALLED	-----
LOW VOLTAGE	_____
-FACTORY STANDARD	_____
-FACTORY OPTION	-----
-FIELD INSTALLED	-----
REPLACEMENT WIRE	_____
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)	
WARNING	
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.	

WIRE COLOR CODE	
BK__BLACK	O__ORANGE
BR__BROWN	PR__PURPLE
BL__BLUE	R__RED
G__GREEN	W__WHITE
GY__GRAY	Y__YELLOW

WIRING SCHEMATIC	
RKNB-A180	
575V, 3 PH, 60 HZ.	
ROOFTOP	

DR. BY	APP. BY	DATE	DWG. NO.	REV
JRJ		12-29-03	90-42517-22	01

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.

Factory Standard Heat ExchangerTen (10) Years
Factory Option Stainless Steel Heat Exchanger
Three Phase models installed in a
commercial applicationTwenty (20) Years
Single Phase models installed in a
residential applicationLimited Lifetime

Condenser Coil and Evaporator Coil leaks
caused by factory defectsFive (5) Years
Compressor (1 Phase, 12-SEER models)Ten (10) Years
Compressor (3 Phase models)Five (5) Years
*Any Other PartOne (1) Year

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

*All other parts and components carry a limited warranty of five years, 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.

**RHEEM
AIR CONDITIONING
DIVISION**

5600 Old Greenwood Road, Fort Smith, Arkansas 72908



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