



Air

Package Gas Electric
RKKN-B Series

The new degree of comfort.™

Rheem *Commercial Value Series* Package Gas Electric Unit



RKKN-B Standard Efficiency Series

Nominal Sizes 6 Ton [21.1 kW]
ASHRAE 90.1-2010 Compliant Models



"Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your Contractor for details or visit www.energystar.gov."



INTEGRATED AIR & WATER

FORM NO. R11-868 REV. 3

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RKKN - B073

STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Two-stage compressor on all models.
- Convertible airflow.
- TXV refrigerant metering system.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier.
- Single slab evaporator coil facilitate easy cleaning for maintained high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Easily removable filter, blower, gas heat, and compressor/control access panels permits prompt service.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Externally mounted refrigerant gauge ports for easy service diagnostics.
- Easy to install plug-in; slip in, 100% fully modulating economizer.
- 82% of steady state efficiency
- Forkable base rails for easy handling and lifting.
- Single point electrical and gas connections.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motor is internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- Single stage gas valve, direct spark ignition, and induced draft for efficiency and reliability.
- Tubular heat exchange for long life and induced draft for efficiency and reliability.
- Solid state furnace control with on board diagnostics.
- Colored and labeled wiring.
- Micro Channel coils.
- Molded compressor plug.
- Micro Channel evaporators and condenser delivers superior performance with less refrigerant charge and less weight than conventional copper tube/aluminum fin coils. In addition the aluminum design has superior formicary corrosion protection and less potential for leaks due to elimination of tube rubbing potential. Its easier to clean and has a more robust surface.

Evaporator Coil/Filter Access

- Return air filters, normally provided, are removed in this photo.

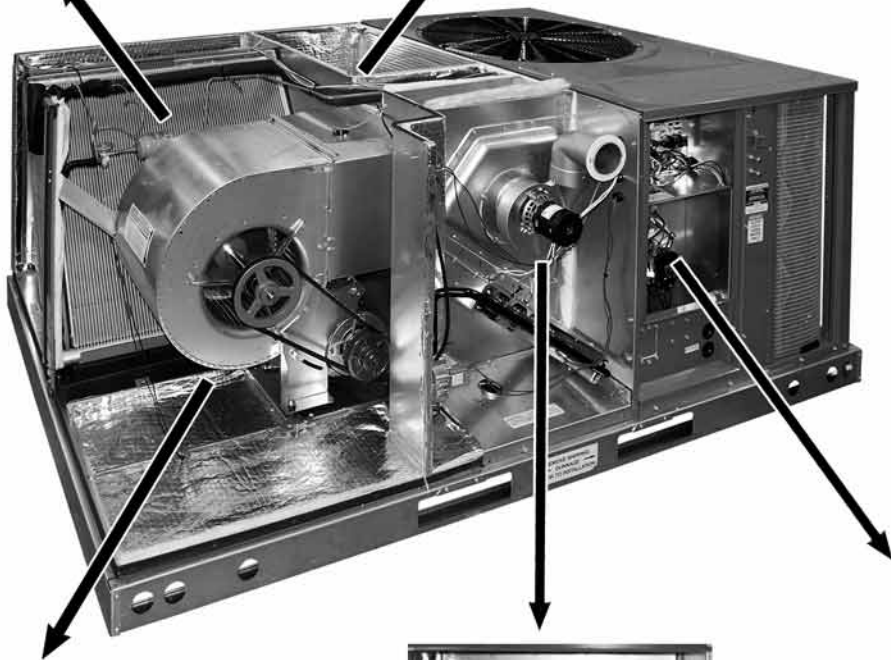


- Non-corrosive plastic condensate pan



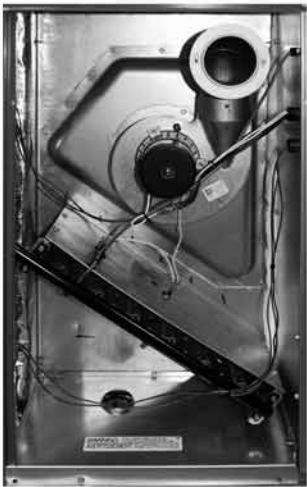
Tubular Heat Exchanger

- Aluminized steel (viewed from supply air side panel.)
- Stainless steel available



Blower Access

- Belt drive model shown. (Available on 3-phase models only.)



Heating Compartment Access

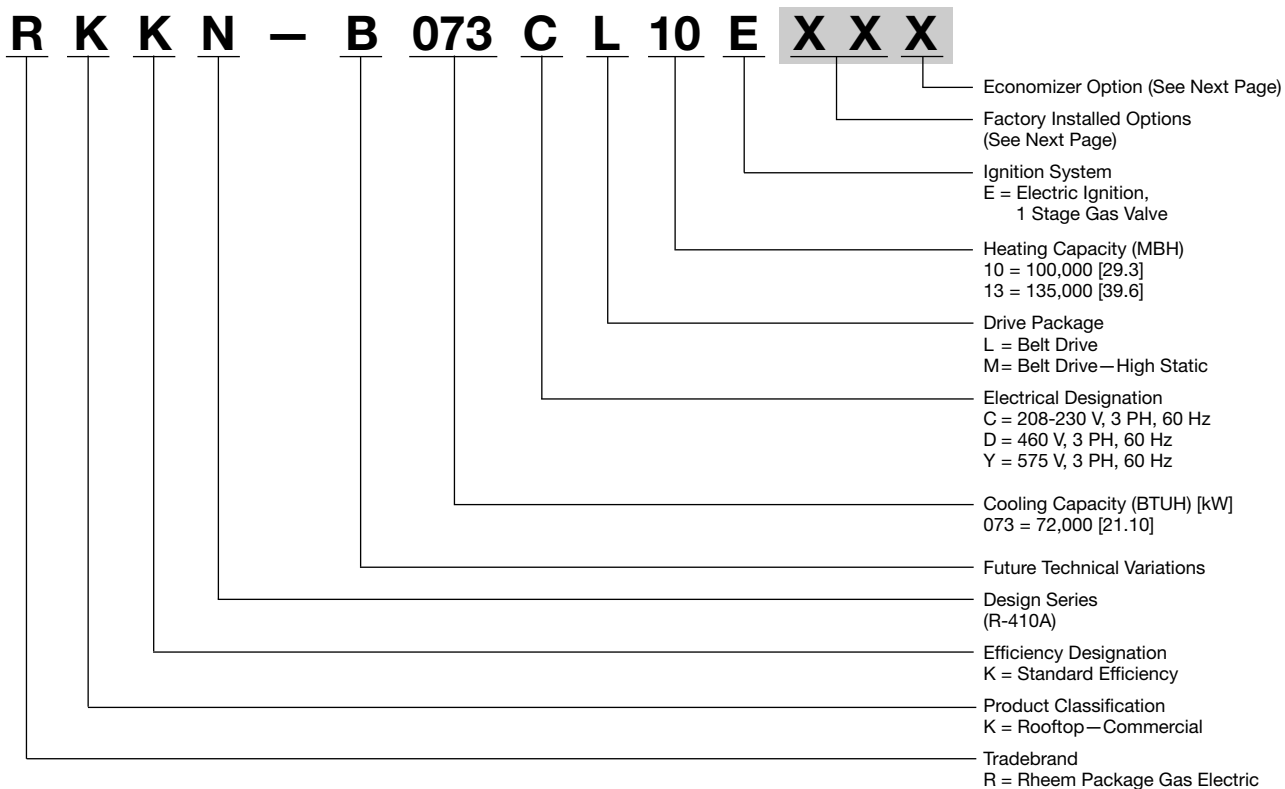


Compressor Access

[] Designates Metric Conversions



Air



[] Designates Metric Conversions





1. Determine cooling and heating requirements at design conditions.

Example:

Power Supply208/230-3 Phase
Total cooling capacity61,000 BTUH [17.87 kW]
Sensible cooling capacity44,000 BTUH [12.89 kW]
Heating capacity96,000 BTUH [28.13 kW]
Condenser entering air95°F [35°C]
Evaporator entering air63°F [17°C] wb/76°F [24°C] db
Indoor air flow2100 CFM [991 L/s]
External static pressure1.1 in wg
Required efficiency11.0 EER, 12.9 IEER

2. Select unit to meet cooling requirements.

Since total cooling is within the range of 6 ton [21.10 kW] unit and requires 11.0 EER/12.9 IEER efficiency level, enter cooling performance from the RKKN-B073 at 95°F [35°C] outdoor temperature, 63°F [17°C] wb entering indoor air, and 2100 CFM [991 L/s]:

Total capacity65,000 BTUH [19.1 kW]
Sensible capacity55,400 BTUH [16.2 kW]
Power input5.4 kW

And also, at 76°F [24°C] db indoor entering air, and using the formula at the bottom of the table:

Sensible capacity48,008 BTUH [14.07 kW]

3. Select heating capacity of the unit.

In the general data tables, note that the heating capacity of the 6 ton [21.10 kW] model with the 135,000 input heater can deliver 109,400 BTUH [32.03 kW], which is suitable for this application.

4. Determine blower speed and power to meet the system requirements.

At the given external static pressure of 1.1 in wg, the belt model must be selected. Enter the belt drive blower performance data at 2100 CFM [991 L/s] and 1.1 in wg ESP:

RPM1130
Watts1060
DriveM

5. Calculate indoor blower BTUH heat effect.

BTUH = Watts x 3.413 = 3618

6. Calculate net cooling capacities.

Net total cooling = 65,000 – 3618 = 61,382 BTUH [17.98 kW]
Net sensible cooling = 48,008 – 3618 = 44,390 BTUH [13.01 kW]

7. Select model

RKKN-B073CM13E

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FACTORY INSTALLED OPTION CODES FOR RKKN-B073 (6 TON) [21.1 kW] (B073)

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

Economizer Codes

A = No Economizer

B = Economizer with Single Enthalpy

Example: RKKN-B073CL13E**XX** (where **XX** is factory installed option)

Example: No Options

RKKN-B073CL13E

Example: No option with factory installed economizer

RKKN-B073CL13EAAB

Example: Options with stainless steel heat exchanger and no factory installed economizer

RKKN-B073CL13EAJA

Example: Options same as above with factory installed economizer

RKKN-B073CL13EAJB

ECONOMIZER SELECTION FOR RKKN-B073 (6 TON) [21.1 kW]

	No Economizer	Single Enthalpy Economizer with Barometric Relief	Single Enthalpy Economizer with Smoke Detector
A	x		
F		x	
G			x

"x" indicates factory installed option.

[] Designates Metric Conversions

NOM. SIZES 6 TONS [21.1 kW]

Model RKKN- Series	B073CL10E	B073CM10E	B073CL13E	B073CM13E
Cooling Performance¹				CONTINUED 
Gross Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]
EER/SEER ²	11 / NA	11 / NA	11 / NA	11 / NA
Nominal CFM/AHRI Rated CFM [L/s]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]
AHRI Net Cooling Capacity Btu [kW]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
Net Sensible Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Latent Capacity Btu [kW]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]
IEER ²	12.9	12.9	12.9	12.9
Net System Power kW	6.18	6.18	6.18	6.18
Heating Performance (Gas)³				
Heating Input Btu [kW]	100,000 [29.3]	100,000 [29.3]	135,000 [39.55]	135,000 [39.55]
Heating Output Btu [kW]	82,000 [24.03]	82,000 [24.03]	110,700 [32.43]	110,700 [32.43]
Temperature Rise Range °F [°C]	20-50 [11.1-27.8]	20-50 [11.1-27.8]	30-60 [16.7-33.3]	30-60 [16.7-33.3]
Steady State Efficiency (%)	82	82	82	82
No. Burners	5	5	6	6
No. Stages	1	1	1	1
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.5 [12.7]	0.5 [12.7]	0.5 [12.7]
Compressor				
No./Type	1 / Two-Stage Scroll	1 / Two-Stage Scroll	1 / Two-Stage Scroll	1 / Two-Stage Scroll
Outdoor Sound Rating (dB)⁴	83	83	83	83
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	5.95 [0.55]	5.95 [0.55]	5.95 [0.55]	5.95 [0.55]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 20 [8]	1 / 22 [9]
Refrigerant Control	TX Valve	TX Valve	TX Valve	TX Valve
Drain Connection No./Size in. [mm]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1 / 24 [609.6]	1 / 24 [609.6]	1 / 24 [609.6]	1 / 24 [609.6]
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM [L/s]	4200 [1982]	4200 [1982]	4200 [1982]	4200 [1982]
No. Motors/HP	1 / 0.5	1 / 0.5	1 / 0.5	1 / 0.5
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1 / 11x10 [279x254]	1 / 11x10 [279x254]	1 / 11x10 [279x254]	1 / 11x10 [279x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	2	2	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]	67 [1899]	67 [1899]	67 [1899]	67 [1899]
Weights				
Net Weight lbs. [kg]	615 [279]	617 [280]	620 [281]	622 [282]
Ship Weight lbs. [kg]	648 [294]	650 [295]	653 [296]	655 [297]

See Page 11 for Notes.

[] Designates Metric Conversions

NOM. SIZES 6 TONS [21.1 kW]

Model RKKN- Series	B073DL10E	B073DM10E	B073DL13E	B073DM13E
Cooling Performance¹				CONTINUED 
Gross Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]
EER/SEER ²	11 / NA	11 / NA	11 / NA	11 / NA
Nominal CFM/AHRI Rated CFM [L/s]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]
AHRI Net Cooling Capacity Btu [kW]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
Net Sensible Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Latent Capacity Btu [kW]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]
IEER ²	12.9	12.9	12.9	12.9
Net System Power kW	6.18	6.18	6.18	6.18
Heating Performance (Gas)³				
Heating Input Btu [kW]	100,000 [29.3]	100,000 [29.3]	135,000 [39.55]	135,000 [39.55]
Heating Output Btu [kW]	82,000 [24.03]	82,000 [24.03]	110,700 [32.43]	110,700 [32.43]
Temperature Rise Range °F [°C]	20-50 [11.1-27.8]	20-50 [11.1-27.8]	30-60 [16.7-33.3]	30-60 [16.7-33.3]
Steady State Efficiency (%)	82	82	82	82
No. Burners	5	5	6	6
No. Stages	1	1	1	1
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.5 [12.7]	0.5 [12.7]	0.5 [12.7]
Compressor				
No./Type	1 / Two-Stage Scroll	1 / Two-Stage Scroll	1 / Two-Stage Scroll	1 / Two-Stage Scroll
Outdoor Sound Rating (dB)⁴	83	83	83	83
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	5.95 [0.55]	5.95 [0.55]	5.95 [0.55]	5.95 [0.55]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Refrigerant Control	TX Valve	TX Valve	TX Valve	TX Valve
Drain Connection No./Size in. [mm]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1 / 24 [609.6]	1 / 24 [609.6]	1 / 24 [609.6]	1 / 24 [609.6]
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM [L/s]	4200 [1982]	4200 [1982]	4200 [1982]	4200 [1982]
No. Motors/HP	1 / 0.5	1 / 0.5	1 / 0.5	1 / 0.5
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1 / 11x10 [279x254]	1 / 11x10 [279x254]	1 / 11x10 [279x254]	1 / 11x10 [279x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	2	2	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]	67 [1899]	67 [1899]	67 [1899]	67 [1899]
Weights				
Net Weight lbs. [kg]	615 [279]	617 [280]	620 [281]	622 [282]
Ship Weight lbs. [kg]	648 [294]	650 [295]	653 [296]	655 [297]

See Page 11 for Notes.

[] Designates Metric Conversions

NOM. SIZES 6 TONS [21.1 kW]

Model RKKN- Series	B073YL10E	B073YM10E	B073YL13E	B073YM13E
Cooling Performance¹				
Gross Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]
EER/SEER ²	11 / NA	11 / NA	11 / NA	11 / NA
Nominal CFM/AHRI Rated CFM [L/s]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]	2400 / 2100 [1133 / 991]
AHRI Net Cooling Capacity Btu [kW]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
Net Sensible Capacity Btu [kW]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]	46,000 [13.48]
Net Latent Capacity Btu [kW]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]	22,000 [6.45]
IEER ²	12.9	12.9	12.9	12.9
Net System Power kW	6.18	6.18	6.18	6.18
Heating Performance (Gas)³				
Heating Input Btu [kW]	100,000 [29.3]	100,000 [29.3]	135,000 [39.55]	135,000 [39.55]
Heating Output Btu [kW]	82,000 [24.03]	82,000 [24.03]	110,700 [32.43]	110,700 [32.43]
Temperature Rise Range °F [°C]	20-50 [11.1-27.8]	20-50 [11.1-27.8]	30-60 [16.7-33.3]	30-60 [16.7-33.3]
Steady State Efficiency (%)	82	82	82	82
No. Burners	5	5	6	6
No. Stages	1	1	1	1
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.5 [12.7]	0.5 [12.7]	0.5 [12.7]
Compressor				
No./Type	1 / Two-Stage Scroll	1 / Two-Stage Scroll	1 / Two-Stage Scroll	1 / Two-Stage Scroll
Outdoor Sound Rating (dB)⁴				
	83	83	83	83
Outdoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Rows / FPI [FPcm]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]	16.4 [1.52]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil—Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	5.95 [0.55]	5.95 [0.55]	5.95 [0.55]	5.95 [0.55]
	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Refrigerant Control	TX Valve	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]	1 / 0.75 [19.05]
Outdoor Fan—Type				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1 / 24 [609.6]	1 / 24 [609.6]	1 / 24 [609.6]	1 / 24 [609.6]
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM [L/s]	4200 [1982]	4200 [1982]	4200 [1982]	4200 [1982]
No. Motors/HP	1 / 0.5	1 / 0.5	1 / 0.5	1 / 0.5
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type				
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1 / 11x10 [279x254]	1 / 11x10 [279x254]	1 / 11x10 [279x254]	1 / 11x10 [279x254]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	1.5	1.5	1.5	1.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter—Type				
Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]				
	67 [1899]	67 [1899]	67 [1899]	67 [1899]
Weights				
Net Weight lbs. [kg]	613 [278]	615 [279]	618 [280]	620 [281]
Ship Weight lbs. [kg]	646 [293]	648 [294]	651 [295]	653 [296]

See Page 11 for Notes.

[] Designates Metric Conversions

NOTES:

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



Air

Gross Systems Performance Data
RKKN-B Series

GROSS SYSTEMS PERFORMANCE DATA — RKKN-B073

wBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dBE ①												61°F [16.1°C]												59°F [15.0°C]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		71°F [21.7°C]				67°F [19.4°C]				63°F [17.2°C]				1780 [840]				2100 [991]				2310 [1090]				1780 [840]				2100 [991]				2310 [1090]				1780 [840]				2100 [991]				2310 [1090]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CFM [L/s]		0.21				0.2				0.18				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 [991]				1780 [840]				2310 [1090]				2100 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AIRFLOW PERFORMANCE — 6 TON [21.10 kW] THREE PHASE BELT DRIVE

Air Flow CFM [L/s]	Capacity 6 Ton [21.10 kW] Voltage 208/230-460 & 575—3 Phase																															
	External Static Pressure—Inches of Water [kPa]																															
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]			
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	
1800 [850]	—	—	—	—	—	—	785	560	850	605	895	650	930	670	975	720	1010	760	1050	800	1090	850	1120	890	1150	940	1180	980	1210	1015	—	
1900 [897]	—	—	—	—	—	785	580	830	615	875	660	915	700	955	740	990	770	1020	815	1070	855	1105	925	960	1165	1015	1195	1075	1220	1115	—	
2000 [944]	—	—	—	775	600	815	625	860	675	895	720	930	750	800	1015	840	1050	900	1085	940	1120	1000	1145	1035	1175	1090	1205	1150	1230	1205	—	
2100 [991]	—	—	—	810	650	840	680	880	740	920	780	955	820	995	880	1030	920	1065	960	1100	1025	1130	1060	1160	1130	1190	1120	1250	1240	1295	—	
2200 [1038]	780	660	825	700	865	750	910	810	945	850	980	880	1015	930	1050	1000	1080	1045	1120	1100	1145	1160	1180	1220	1205	1260	1230	1330	1255	1380	—	
2300 [1085]	815	720	855	760	890	830	930	870	960	910	1000	960	1035	1005	1065	1060	1100	1130	1135	1180	1160	1250	1200	1325	1220	1370	1240	1425	—	—	—	
2400 [1133]	845	780	880	835	920	900	950	945	990	990	1025	1050	1055	1110	1085	1155	1120	1215	1150	1335	1185	1355	1220	1430	1235	1470	1255	1525	—	—	—	
2500 [1180]	870	855	910	915	945	975	980	1020	1020	1085	1045	1140	1080	1200	1110	1260	1135	1300	1175	1390	1205	1450	1230	1530	1250	1580	1295	1630	—	—	—	
2600 [1227]	900	945	940	1005	975	1060	1005	1105	1040	1175	1065	1225	1100	1295	1135	1350	1165	1425	1200	1505	1225	1580	1240	1635	1270	1665	—	—	—	—	—	
2700 [1274]	930	1075	970	1100	1000	1145	1030	1200	1060	1260	1090	1335	1125	1395	1155	1470	1185	1540	1235	1615	1235	1675	1255	1730	—	—	—	—	—	—	—	
2800 [1321]	960	1150	1000	1195	1025	1240	1055	1305	1085	1350	1115	1440	1145	1510	1180	1560	1210	1620	1235	1740	1250	1775	1295	—	—	—	—	—	—	—	—	—

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

Drive Package Motor H.P. [W]	L												M											
	1 1/2 [1119]												1 1/2 [1119]											
Blower Sheave	6.4" Pitch Diameter												6.4" Pitch Diameter											
Motor Sheave	2.8"-3.8" Pitch Diameter—Adj.												3.4"-4.4" Pitch Diameter—Adj.											
Turns Open	0	1	2	3	4	5	6	0	1	2	3	4	5	6										
RPM	1100	1050	1000	945	895	845	780	1295	1230	1195	1145	1100	1050	1000										

NOTE: Factory sheave settings are shown in bold print.

[] Designates Metric Conversions



Air

Indoor Airflow Performance
RKKN-B Series



INTEGRATED AIR & WATER



ELECTRICAL DATA – RKKN SERIES

		B073CL	B073CM	B073DL	B073DM	B073YL	B073YM
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-632	518-632
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	31	31	16	16	11	11
	Minimum Overcurrent Protection	35	35	20	20	15	15
	Maximum Overcurrent Protection	45	45	20	20	15	15
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	5	5	5	5	5	5
	Amps (RLA), Comp. 1	17.6	17.6	8.5	8.5	6.3	6.3
	Amps (LRA), Comp. 1	136	136	66.1	66.1	55.3	55.3
Condenser Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.3	2.3	1.5	1.5	1	1
	Amps (LRA, each)	5.6	5.6	3.1	3.1	2.2	2.2
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	2	2	2	1 1/2	1 1/2
	Amps (FLA, each)	6.2	6.2	3	3	2.3	2.3
	Amps (LRA, each)	47	47	24	24	13.1	13.1

GAS HEAT / ELECTRIC COOLING PACKAGE

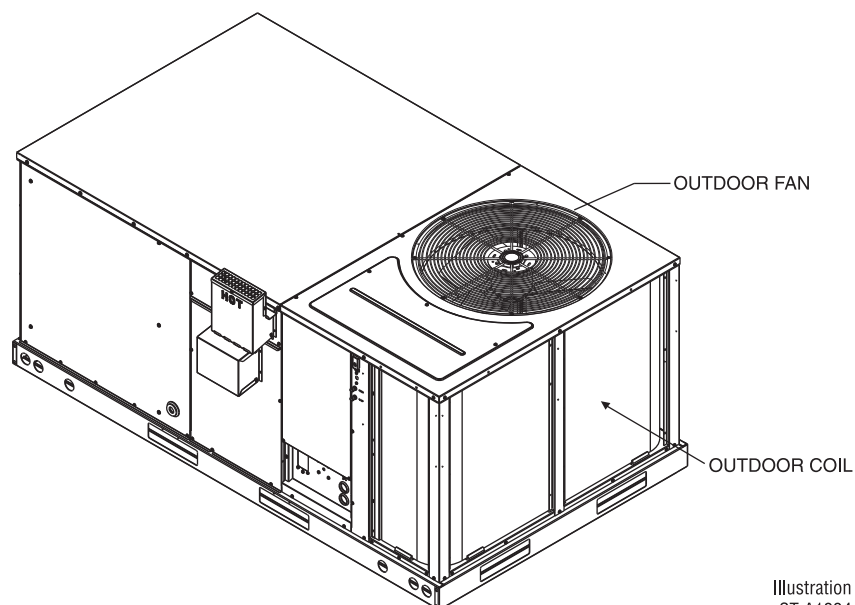
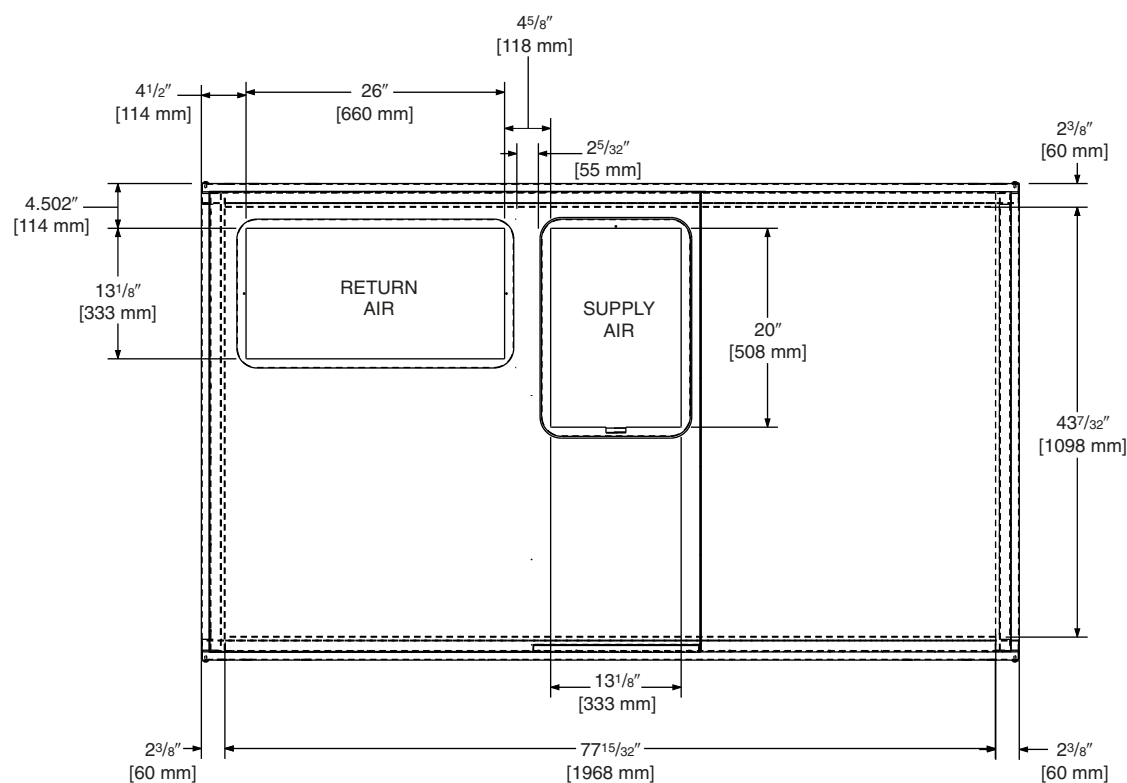


Illustration
ST-A1224

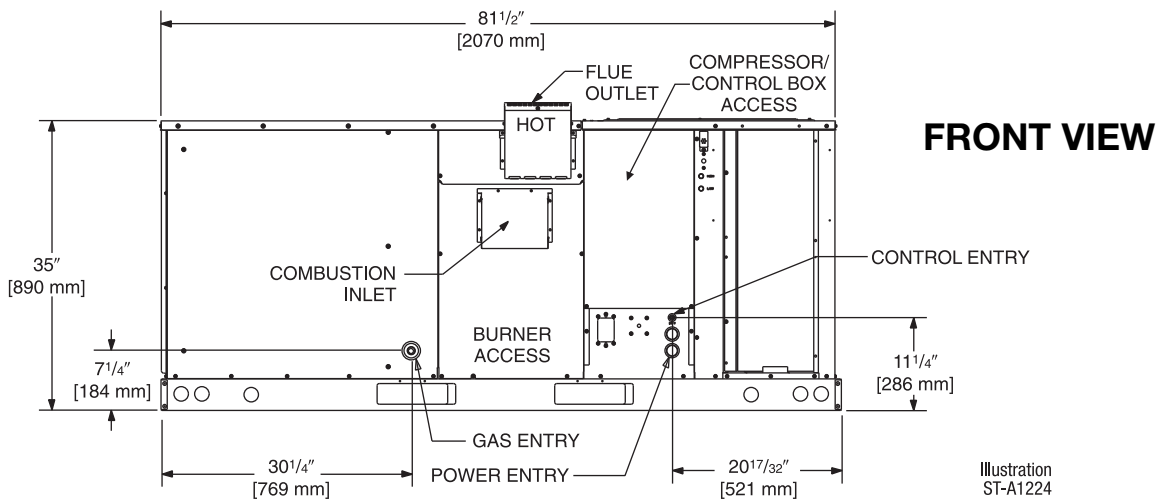
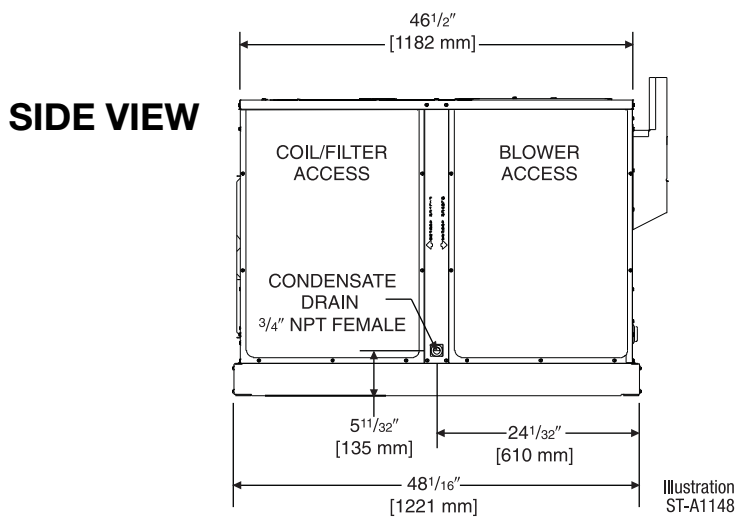
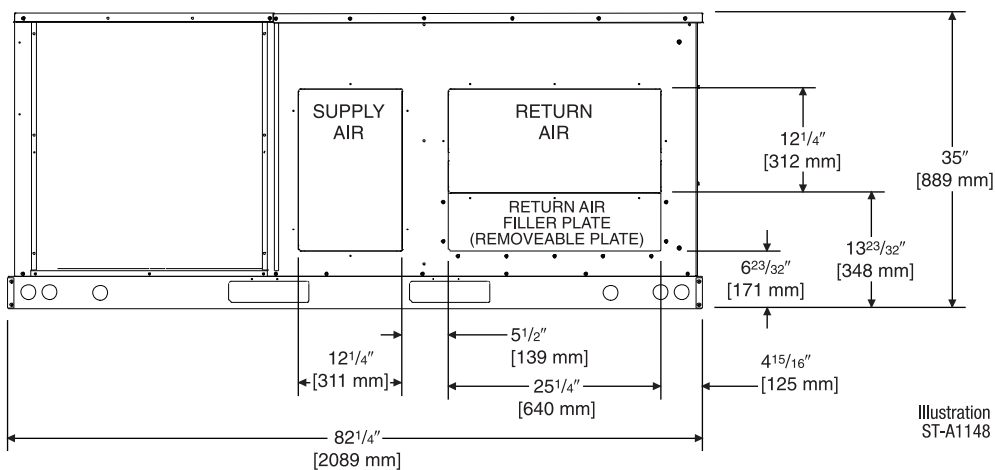
TOP VIEW



[] Designates Metric Conversions

Illustration
ST-A1143

GAS HEAT / ELECTRIC COOLING PACKAGE



[] Designates Metric Conversions

WEIGHTS

Accessory	6 Ton [21.1 kW]	
	Shipping	Operating
	lbs [kg]	lbs [kg]
Economizer (AXRD-01RCCBM3) with Smoke Detector	76 [34]	75 [34]
Economizer (AXRD-01RCCAM3) without Smoke Detector	73 [33]	72 [33]
Power Exhaust	19 [9]	16 [7]
Fresh Air Damper (Manual)	11 [5]	9 [4]
Fresh Air Damper (Motorized)	13 [6]	11 [5]
Roof Curb 14"	92 [42]	88 [40]
Roof Curb 24"	108 [49]	104 [47]
Concentric Diffuser 18" Flush	37 [17]	26 [12]
Concentric Diffuser 20" Flush	54 [24]	42 [19]
Side Discharge Concentric Diffuser RXRN-FA60	35 [16]	20 [9]
Side Discharge Concentric Diffuser RXRN-FA65	55 [25]	40 [18]

CENTER OF GRAVITY (C.G.)

Capacity Tons [kW]	A in. [mm]	B in. [mm]
6 [21.1]	38 ¹ / ₄ [972]	25 ³ / ₄ [654]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
6 [21.1]	22%	27%	23%	28%

CLEARANCES

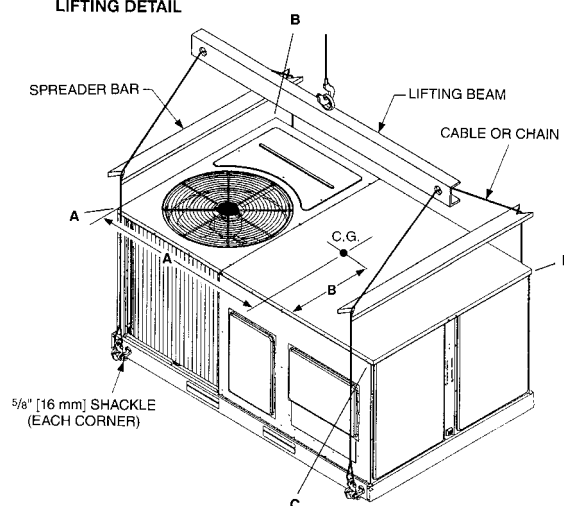
(6 Ton [21.1 kW] Models)

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

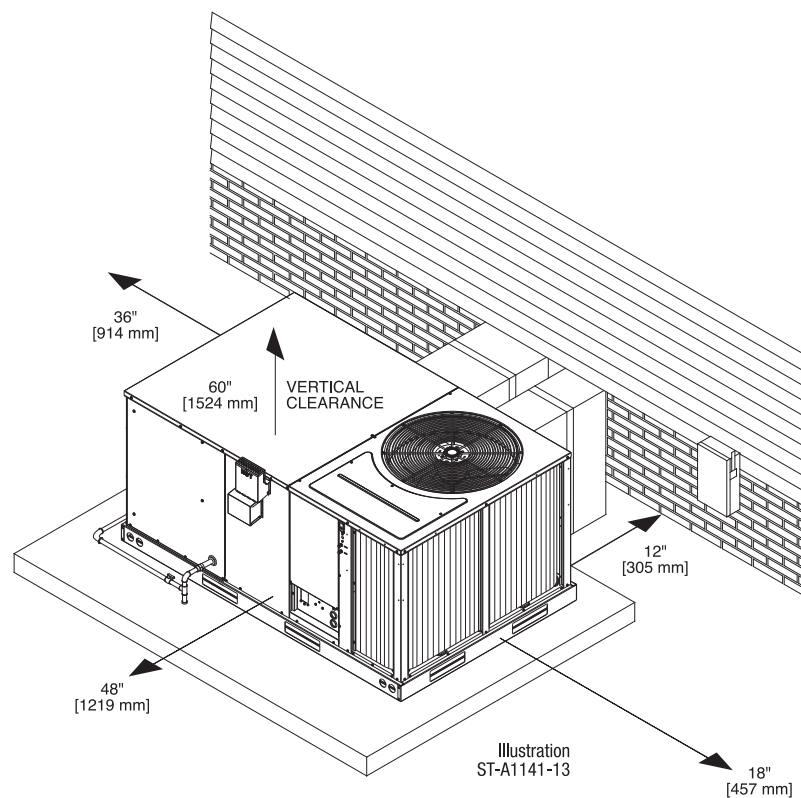
Recommended Clearance in. [mm]	Location
48 [1219]	A - Front
18 [457]	B - Condenser Coil
12 [305]	C - Duct Side
36 [914]	D - Evaporator End
60 [1524]	E - Above
*Without Economizer. 57" [1448 mm] With Economizer	

NOTE: Supply duct may be installed with "0" inch clearance to combustible materials, provided 1" [25.4 mm] minimum Fiberglass insulation is applied either inside or on the outside of the duct.

LIFTING DETAIL



[] Designates Metric Conversions



ACCESSORY EQUIPMENT

Accessory Description	Model Application	Accessory Model No.	Factory Installed
Roofcurb, 14"	RKKN-B073	RXKG-CAD14	No
Roofcurb, 24"	RKKN-B073	RXKG-CAD24	No
Roofcurb adapters	RKKN-B073	RXXR-CCCE50	No
Economizer, with single enthalpy ②	RKKN-B073	AXRD-01RCCAM3	Yes
Economizer, with smoke detector ②	RKKN-B073	AXRD-01RCCBM3	Yes
Dual enthalpy kit for economizer	RKKN-B073	RXXR-AV04	No
CO ² sensor	RKKN-B073	RXXR-AR02	No
Power exhaust (C, D, Y voltages)	RKKN-B073	AXRX-BGF03	No
Fresh air damper, manual	RKKN-B073	AXRF-FCA1	No
Fresh air damper, motorized	RKKN-B073	AXRF-FCB1	No
Rectangular-to-round 20" duct adapters for concentric diffuser	RKKN-B073	RXMC-CC04	No
Concentric diffuser 20", step type	RKKN-B073	RXRN-FA65	No
Concentric diffuser 20", flush type	RKKN-B073	RXRN-FA75	No
Louver kit, 3-sided	RKKN-B073	AXRX-AAD01B	Yes
Compressor time delay	RKKN-B073	RXMD-B04	No
Low ambient control	RKKN-B073	RXXR-A04	Yes
Convenience outlet (requires separate power supply)	RKKN-B073	RXXR-AN02	Yes
Service disconnect switch	RKKN-B073	RXXR-AP01	Yes
LP conversion kit for Honeywell gas valve (see note 1)	RKKN-B073	RXGJ-EP85H	No
Freeze stat control	RKKN-B073	RXXR-AM04	Yes
Canadian high-altitude kit for natural gas only (see note 1)	RKKN-B073	RXXR-AH01	No

*Voltage C = 208/230 VAC-3PH-60HZ D = 460 VAC-3PH-60HZ
Y = 575 VAC-3PH-60HZ

NOTES: 1. If a unit is to be converted to operate on LP gas above 2000 ft. in Canada, the conversion kits contain the necessary orifices and instructions to de-rate the input for 2000-4500 ft.
2. Economizer is designed for downflow or horizontal applications.

[] Designates Metric Conversions

Old Models

(-)RCF, (-)REF, (-)RGF131 & 201, RGF150



ROOFCURB ADAPTER

NEW MODEL

→ RXRK-E50

RXRX-CCCE50

► RKKN-B073

[] Designates Metric Conversions



ECONOMIZERS

AXRD-01RCCAM3—6 Ton [21.1 kW] Models
AXRD-01RCCBM3—6 Ton [21.1 kW] Models

RXXR-AV04—3-6 Ton [10.6-21.1 kW] Models

RXXR-AR02—3-6 Ton [10.6-21.1 kW] Models

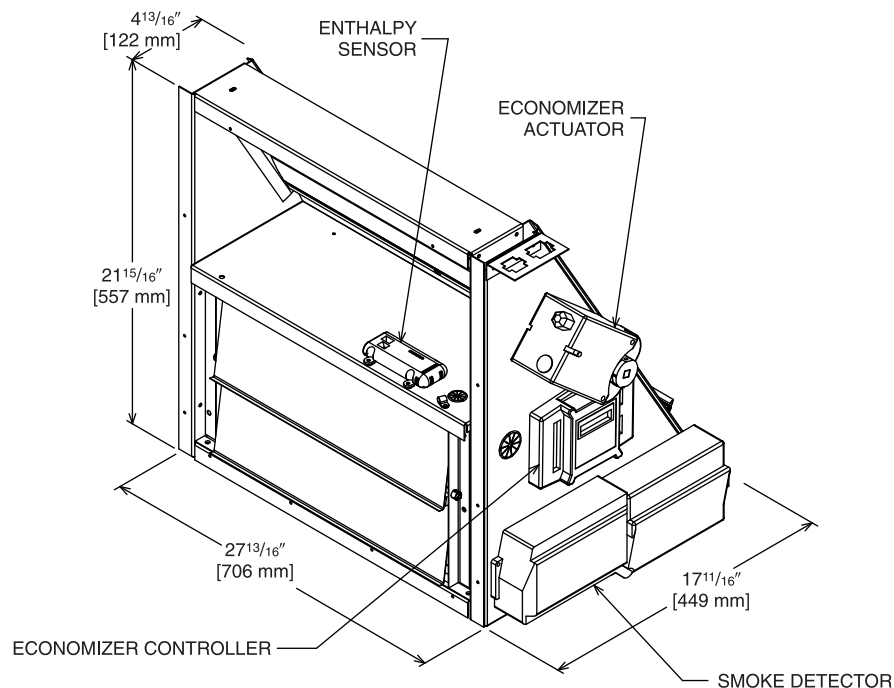
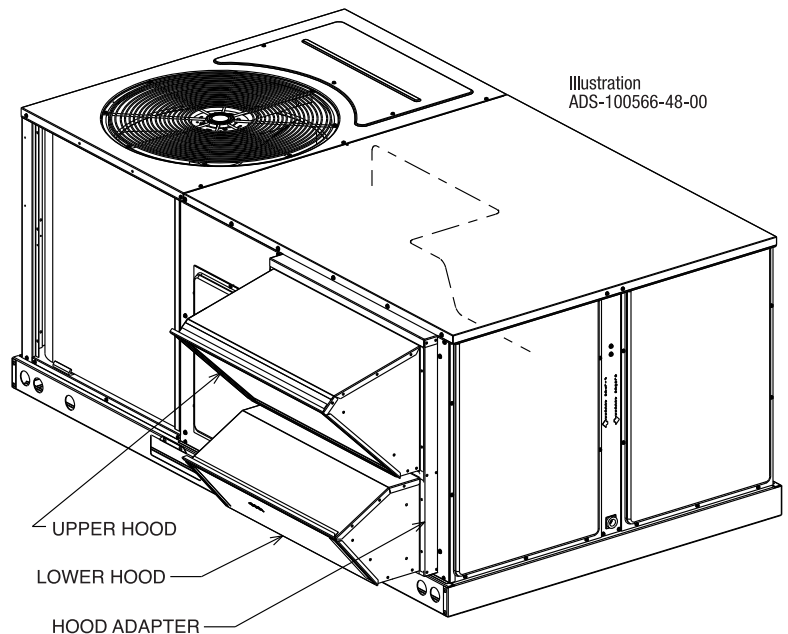
Single Enthalpy (with Barometric Relief)
Single Enthalpy and Smoke Detector

Dual Enthalpy Kit

Optional CO₂ Sensor

- Features **Honeywell JADE™** Digital Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 12-pin Electrical Connections
- Pre-configuring—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy upgrade kit
- CO₂ Input Sensor Available (field installed)
- Economizer slips in complete for downflow or horizontal duct applications
- Field assembled hood ships with Economizer
- Field installed power exhaust available.

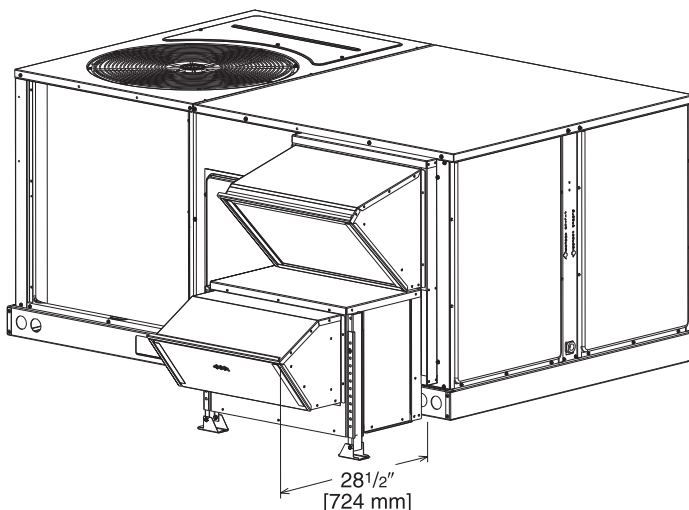
[] Designates Metric Conversions



INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

- AXRX-BGF03C** — RKKN-B 6 Ton [21.1 kW]
 Models 208-230 V, 1 PH, 60 Hz
AXRX-BGF03D — RKKN-B 6 Ton [21.1 kW]
 Models 460 V, 3 PH, 60 Hz
AXRX-BGF03Y — RKKN-B 6 Ton [21.1 kW]
 Models 575 V, 3 PH, 60 Hz

- For **Honeywell** economizer.
- Downflow or horizontal applications.
- Requires separate 208-230 volt – 1 PH power supply with disconnect or requires separate 460V – 3 PH power supply with disconnect.
- Adjustable switch on economizer, factory preset to energize power exhaust at 95% outside air position.
- Polarized plug connects power exhaust relay to economizer.



POWER EXHAUST KIT FOR AXRD-01RCCAM3 & AXRD-01CCBM3 ECONOMIZERS

Model No.	No. of Fans	Volts	Phase	Watts (ea.)	High Speed		FLA (ea.)	LRA (ea.)
					CFM ①	RPM		
AXRX-BGF03C	1	208/230	1	1000	2500	1725	4.4	23.7
AXRX-BGF03D	1	460	1	800	2370	1620	1.8	4.1
AXRX-BGF03Y ②	1	575	1	800	2370	1620	1.5	3.3

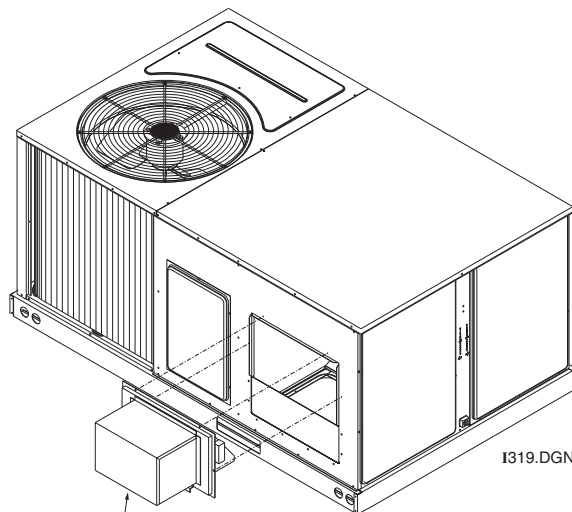
① CFM is at 0" W.C. external static pressure.

② Unit includes 575 to 460 Volt step-down transformer.

FRESH AIR DAMPER

RKKN-B 6 Ton [21.1 kW] Models
 AXRF-FCA1 (Manual)
 AXRF-FCB1 (Motorized)

[] Designates Metric Conversions

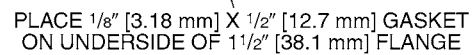


FRESH AIR DAMPER

DUCT ADAPTERS (RKKN-B 6 Ton [21.1 kW] Models)

Rectangular to Round Transitions (Downflow)

RXMC-CC04 20" [508 mm] Round



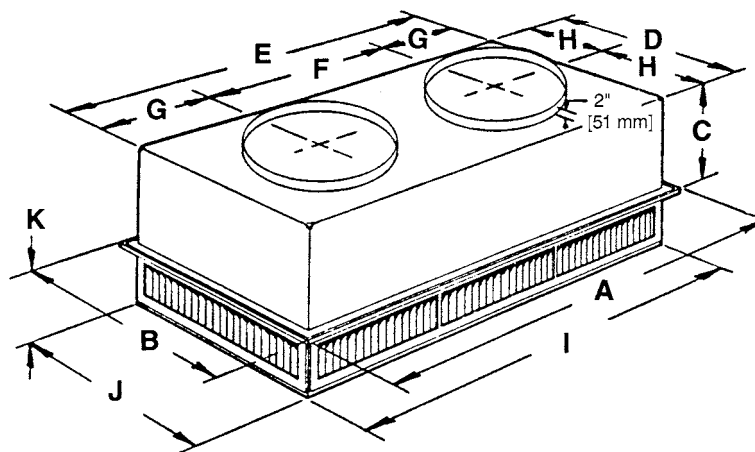
Accessory Model No.	Model Application Tons [kW]	Size in. [mm]
RXMC-CB03	3-5 [10.6-17.6]	18 [457] Round
RXMC-CC04	6 [21.1]	20 [508] Round

[] Designates Metric Conversions

SIDE DISCHARGE CONCENTRIC DIFFUSER

RXRN-FA65 (6 Ton [21.1 kW] Model)

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	I	J	K	Duct Size
RXRN-FA65	47 ⁵ / ₈ " [1210 mm]	29 ⁵ / ₈ " [752 mm]	14 ³ / ₈ " [365 mm]	27 ¹ / ₂ " [699 mm]	45 ¹ / ₂ " [1156 mm]	22 ¹ / ₂ " [572 mm]	11 ¹ / ₂ " [292 mm]	13 ³ / ₄ " [349 mm]	45 ¹ / ₂ " [1156 mm]	27 ¹ / ₂ " [699 mm]	8 ¹ / ₈ " [206 mm]	20RD

ENGINEERING DATA

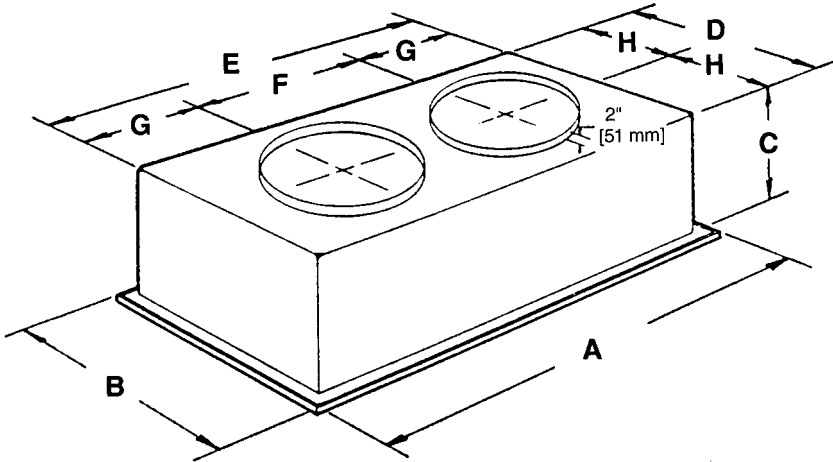
Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA65	2600 [1227]	.17	24-29	669	669	20
	2800 [1321]	.20	25-30	720	720	25
	3000 [1416]	.25	27-33	772	772	25
	3200 [1510]	.31	28-35	823	823	25
	3400 [1605]	.37	30-37	874	874	30

[] Designates Metric Conversions

FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA75 (6 Ton [21.1 kW] Model)

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	Duct Size
RXRN-FA75	47 ⁵ / ₈ " [1210 mm]	29 ⁵ / ₈ " [752 mm]	16 ⁵ / ₈ " [422 mm]	27" [686 mm]	45" [1143 mm]	22 ¹ / ₂ " [572 mm]	11 ¹ / ₄ " [286 mm]	13 ¹ / ₂ " [343 mm]	20RD

ENGINEERING DATA

Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA75	2600 [1227]	.17	19-24	663	1294	30
	2800 [1321]	.20	20-28	714	1393	35
	3000 [1416]	.25	21-29	765	1492	35
	3200 [1510]	.31	22-29	816	1592	40
	3400 [1605]	.37	22-30	867	1692	40

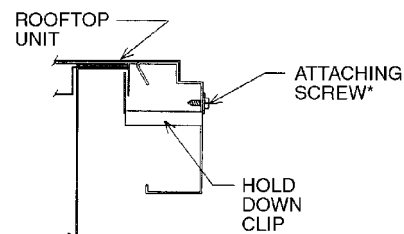
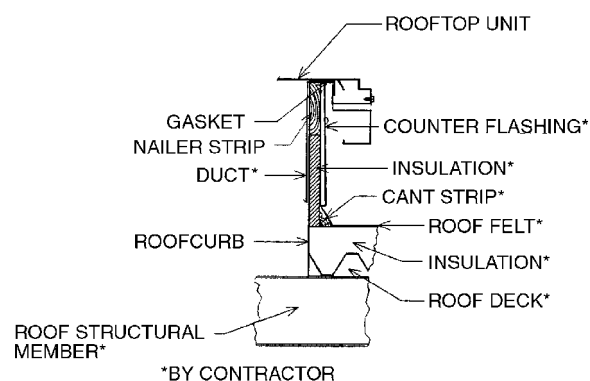
[] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

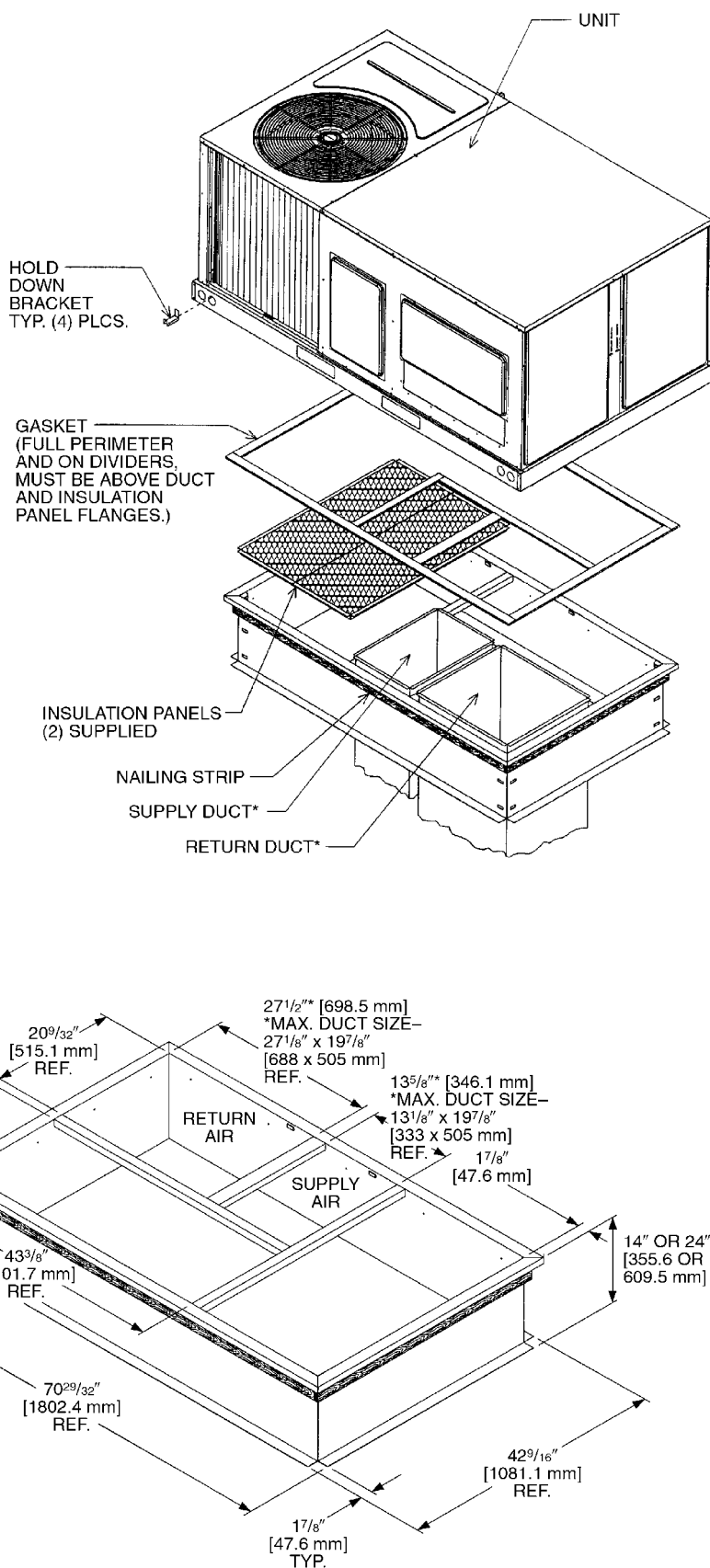
- Rheem's new roofcurb design can be utilized on 3 through 7.5 ton [21.1 kW] models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening provided on the unit base pan.
- 2" [51 mm] x 4" [102 mm] Nailer provided.
- Insulating panels provided.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

Roofcurb Model	Height of Curb
RXKG-CAD14	14" [356 mm]
RXKG-CAD24	24" [610 mm]

[] Designates Metric Conversions



TYPICAL INSTALLATION



SAMPLE SPECIFICATIONS

Unit shall be completely factory assembled and performance tested to provide the required cooling and heating functions suitable for outdoor installations. Unit shall be UL/cUL listed and rated in accordance to AHRI Standard 210.

Cabinet

Unit casing, base pan and framework shall be manufactured of galvanized sheet metal primed and finished pre-painted metal capable of withstanding a 1000-hour salt spray test per ASTM B 117. Unit interior cabinet surfaces shall be insulated with a minimum 1/2-inch thick foil faced insulation. Access panels shall be easily removable providing access to the blower, filter, heating compartment, and compressor/control box. Unit base rails shall be provided with fork insertion slots and rigging holes. Condensate drain pan shall be of sloped design to conform to ASHRAE 62. Unit shall be supplied ready for vertical airflow and be easily convertible to horizontal airflow at or before installation.

Compressor(s)

Unit shall be provided with fully hermetic scroll compressor(s) with internally protected safety controls.

Coils

Aluminum Micro Channel evaporator and condenser coils. Aluminum lanced fins thermally bonded to aluminum multi-port flat tube design. Leak tested using helium mass spectrometry.

Condenser Fan

A single direct drive propeller fan shall discharge air vertically upward. The fan motor shall be permanently lubricated and have built-in overload protection.

Evaporator Blower

A single, double inlet, centrifugal wheel shall rotate in permanently lubricated ball bearings. The wheel shall be made from steel with corrosion resistant finish and shall be statically and dynamically balanced.

ACCESSORIES

ROOF CURB

Curb shall be full perimeter type, complying with the standards of the National Roofing Contractors Association. Design shall provide for drop-in of supply and return ducts prior to setting unit, and include an insulating panel for the rest of the curb area.

Economizer

Economizer shall be completely assembled for field installation. Unit shall include all controls and dampers including the barometric relief damper.

Manual Fresh Air Damper

Damper shall consist of damper and rainhood which is manually preset to admit up to 35% of outside air for field installation.

Motorized Fresh Air Damper

Damper shall consist of motor, damper, and rainhood which can admit up to 35% of outside air for field installation.

Pressure Controls

High and low pressure controls are factory installed.

Low Ambient Control

Low ambient control shall be provided to cycle the condenser fan in response to condensing pressure and allow operation to 0 degrees F. The option shall be field or factory installed.

Louver Panel Kits

Field or factory installed louver kits shall be provided for condenser coil protection against hail or flying debris.

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

GENERAL TERMS OF LIMITED WARRANTY*

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

Heat ExchangerTen (10) Years

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Compressor
3 Phase, Commercial ApplicationsFive (5) Years

Parts
3 Phase, Commercial Applications.....One (1) Year

Factory Standard Heat Exchanger
3 Phase, Commercial ApplicationsTen (10) Years



The new degree of comfort.™

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

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