

Rheem *Commercial Value Series* Package Gas Electric Unit



RKKL-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."

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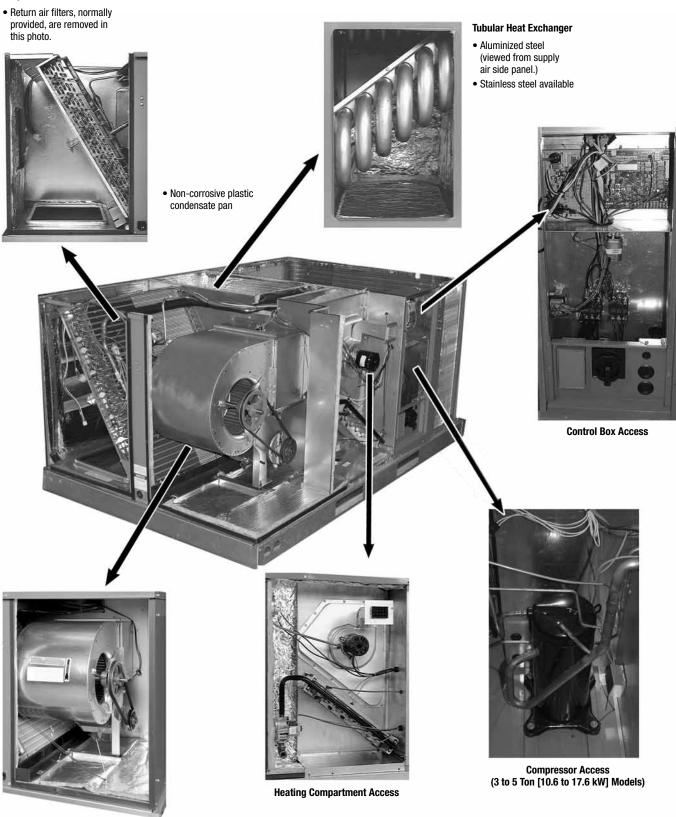
RKKL - B072

STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- · Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Single stage compressor on 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.
- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Externally mounted refrigerant gauge ports for easy service diagnostics.

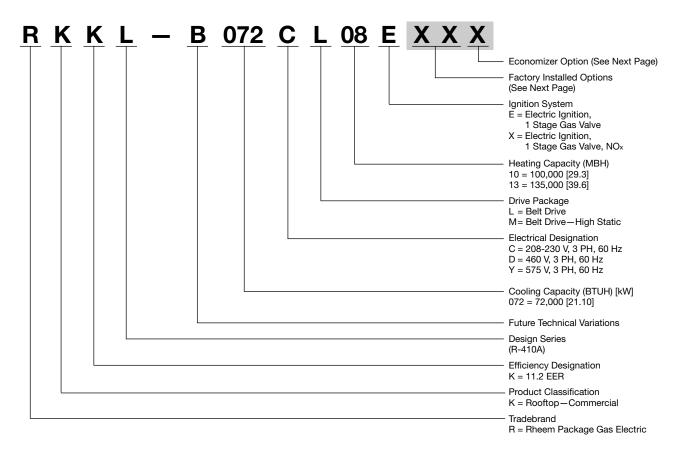
- Easy to install plug-in; slip in, 100% fully modulating economizer.
- Forkable base rails for easy handling and lifting.
- Single point electrical and gas connections.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motor is internally protected, totally enclosed with shaft down design.
- 1 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.
- Copper tube/Aluminum Fin coils.
- · Molded compressor plug.

Evaporator Coil/Filter Access



Blower Access

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



1. Determine cooling and heating requirements at design conditions.

Example:

2. Select unit to meet cooling requirements.

Since total cooling is within the range of 6 ton [21.10 kW] unit and requires 11.2 EER efficiency level, enter cooling performance from the RKKL-B072 at 95°F [35°C] outdoor temperature, 63°F [17°C] wb entering indoor air, and 2460 CFM [1161 L/s]:

Total capacity	71,700 BTUH [21.01 kW]
	67,500 BTUH [19.78 kW]
Power input	5 O kW

And also, at $76^{\circ}F$ [24°C] db indoor entering air, and using the formula at the bottom of the table:

Sensible capacity56,676 BTUH [16.61 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 2460 CFM [1161 L/s] and 1.1 in wg ESP:

RPM1197 Watts1392 DriveM

5. Calculate indoor blower BTUH heat effect.

BTUH = Watts x 3.413 = 4751

6. Calculate net cooling capacities.

Net total cooling = 71,700 - 4751 = 66,949 BTUH [19.62 kW] Net sensible cooling = 67,900 - 4751 = 62,749 BTUH [18.39 kW]

7. Select model

RKKL-B072CM13E

FACTORY INSTALLED OPTION CODES FOR RKKL-B (6 TON) [21.1 kW] (B072)

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	Х			х
JB		X	х	
CR	Х	X		x
DN	Х	Х	х	Х

Economizer Codes

A = No Economizer

B = Economizer with Single Enthalpy

Example: RKKL-B072CL13EXXX (where XX is factory installed option)

Example: No Options

RKKL-B072CL13E

Example: No option with factory installed economizer

RKKL-B072CL13EAAB

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

RKKL-B072CL13EAJA

Example: Options same as above with factory installed economizer

RKKL-B072CL13EAJB

ECONOMIZER SELECTION FOR RKKL-B (6 TON) [21.1 kW]

	No Economizer	Single Enthalpy Economizer With Barometric Relief
A	Х	
F		Х

[&]quot;x" indicates factory installed option.



NOM. SIZES 6 TONS [21.1 kW]

Model RKKL- Series	B072CL10E	B072CL13E	B072CM10E	B072CM13E
Cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	73,000 [21.39]	73,000 [21.39]	73,000 [21.39]	73,000 [21.39]
EER/SEER ²	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2050 [1133/967]	2400/2050 [1133/967]	2400/2050 [1133/967]	2400/2050 [1133/967]
AHRI Net Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]
Net Sensible Capacity Btu [kW]	49,700 [14.56]	49,700 [14.56]	49,700 [14.56]	49,700 [14.56]
Net Latent Capacity Btu [kW]	20,300 [5.95]	20,300 [5.95]	20,300 [5.95]	20,300 [5.95]
Integrated Part Load Value	N/A	N/A	N/A	N/A
Net System Power kW	6.21	6.21	6.21	6.21
Heating Performance (Gas) ³	-	·		-
Heating Performance (Gas) [kW]	100,000 [29.3]	135,000 [39.55]	100,000 [29.3]	135,000 [39.55]
Heating Performance (Gas) [kW]	81,000 [23.73]	109,400 [32.05]	81,000 [23.73]	109,400 [32.05]
Temperature Rise Range °F [°C]	20-50 [11.1/27.8]	30-60 [16.7/33.3]	20-50 [11.1/27.8]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	5	6	5	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	1/Carall	1/Caroll	1/Coroll	1/Coroll
No./Type Outdoor Sound Rating (dB)4	1/Scroll 83	1/Scroll 83	1/Scroll 83	1/Scroll 83
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]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Corrugated	Corrugated	Corrugated	Corrugated
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]	6.5 [0.6]	6.5 [0.6]	6.5 [0.6]	6.5 [0.6]
Rows / FPI [FPcm]	4 / 12 [5]	4 / 12 [5]	4 / 12 [5]	4 / 12 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	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]	4000 [1888]	4000 [1888]	4000 [1888]	4000 [1888]
No. Motors/HP	1 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]	1/11x10 [279x254]	1/11x10 [279x254]	1/11x10 [279x254]	1/11x10 [279x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1 1/2	1 1/2	1 1/2	1 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	0	0	0	0
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]	191 [5415]	191 [5415]	191 [5415]	191 [5415]
Weights	101 [0110]	101 [0410]	נטודטן וטו	101 [0710]
•	10101 003	10101 023	10101 003	10101
Net Weight Ibs. [kg]	689 [313]	689 [313]	689 [313]	689 [313]
Ship Weight lbs. [kg]	696 [316]	696 [316]	696 [316]	696 [316]

See Page 11 for Notes.



NOM. SIZES 6 TONS [21.1 kW]

Model RKKL- Series	B072DL10E	B072DL13E	B072DM10E	B072DM13E
Cooling Performance ¹				CONTINUED
Gross Cooling Capacity Btu [kW]	73,000 [21.39]	73,000 [21.39]	73,000 [21.39]	73,000 [21.39]
EER/SEER2	11.2/NA	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	2400/2050 [1133/967]	2400/2050 [1133/967]	2400/2050 [1133/967]	2400/2050 [1133/967]
AHRI Net Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]	70,000 [20.51]
Net Sensible Capacity Btu [kW]	49,700 [14.56]	49,700 [14.56]	49,700 [14.56]	49,700 [14.56]
Net Latent Capacity Btu [kW]	20,300 [5.95]	20,300 [5.95]	20,300 [5.95]	20,300 [5.95]
Integrated Part Load Value	N/A	N/A	N/A	N/A
Net System Power kW	6.21	6.21	6.21	6.21
Heating Performance (Gas) ³				
Heating Performance (Gas) [kW]	100,000 [29.3]	135,000 [39.55]	100,000 [29.3]	135,000 [39.55]
Heating Performance (Gas) [kW]	81,000 [23.73]	109,400 [32.05]	81,000 [23.73]	109,400 [32.05]
Temperature Rise Range °F [°C]	20-50 [11.1/27.8]	30-60 [16.7/33.3]	20-50 [11.1/27.8]	30-60 [16.7/33.3]
Steady State Efficiency (%)	81	81	81	81
No. Burners	5	6	5	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	0.0 [12.7]	0.0 [12.7]	0.0 [12.7]	0.0 [12.7]
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB) ⁴	83	83	83	83
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]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
ndoor Coil—Fin Type	Corrugated	Corrugated	Corrugated	Corrugated
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]
			6.5 [0.6]	
Face Area sq. ft. [sq. m]	6.5 [0.6]	6.5 [0.6]		6.5 [0.6]
Rows / FPI [FPcm]	4 / 12 [5]	4 / 12 [5]	4 / 12 [5]	4 / 12 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	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]	4000 [1888]	4000 [1888]	4000 [1888]	4000 [1888]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075	1075	1075
ndoor 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/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1 1/2	1 1/2	1 1/2	1 1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	0	0	0	0
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406
Refrigerant Charge Oz. [g]	191 [5415]	191 [5415]	191 [5415]	191 [5415]
Weights		<u> </u>		
Net Weight lbs. [kg]	689 [313]	689 [313]	689 [313]	689 [313]
Ship Weight lbs. [kg]	696 [316]	696 [316]	696 [316]	696 [316]

See Page 11 for Notes.



NOM. SIZES 6 TONS [21.1 kW]

Model RKKL- Series	B072YL13E	B072YM13E	
Cooling Performance ¹			
Gross Cooling Capacity Btu [kW]	73,000 [21.39]	73,000 [21.39]	
EER/SEER ²	11.2/NA	11.2/NA	
Nominal CFM/AHRI Rated CFM [L/s]	2400/2050 [1133/967]	2400/2050 [1133/967]	
AHRI Net Cooling Capacity Btu [kW]	70,000 [20.51]	70,000 [20.51]	
Net Sensible Capacity Btu [kW]	49,700 [14.56]	49,700 [14.56]	
Net Latent Capacity Btu [kW]	20,300 [5.95]	20,300 [5.95]	
Integrated Part Load Value	20,300 [3.33] N/A	20,300 [3.93] N/A	
Net System Power kW	6.21	6.21	
Heating Performance (Gas) ³	0.21	0.21	
Heating Performance (Gas) [kW]	100,000 [29.3]	135,000 [39.55]	
Heating Performance (Gas) [kW]	81,000 [23.73]	109,400 [32.05]	
Temperature Rise Range °F [°C]	20-50 [11.1/27.8]	30-60 [16.7/33.3]	
Steady State Efficiency (%)	81	81	
No. Burners	5	6	
No. Stages	1	1	
Gas Connection Pipe Size in. [mm]	0.5 [12.7]	0.5 [12.7]	
Compressor	<i>4 1</i> 0 11	4/0 "	
No./Type	1/Scroll	1/Scroll	
Outdoor Sound Rating (dB) ⁴	83	83	
Outdoor Coil—Fin Type	Louvered	Louvered	
Tube Type	Rifled	Rifled	
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	
Indoor Coil—Fin Type	Corrugated	Corrugated	
Tube Type	Rifled	Rifled	
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	
Face Area sq. ft. [sq. m]	6.5 [0.6]	6.5 [0.6]	
Rows / FPI [FPcm]	4 / 12 [5]	4 / 12 [5]	
Refrigerant Control	TX Valves	TX Valves	
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	
Outdoor Fan—Type	Propeller	Propeller	
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	
Drive Type/No. Speeds	Direct/1	Direct/1	
CFM [L/s]	4000 [1888]	4000 [1888]	
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP	
Motor RPM	1075	1075	
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	
No. Used/Diameter in. [mm]	1/11x10 [279x254]	1/11x10 [279x254]	
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	
No. Motors	1	1	
Motor HP	1 1/2	1 1/2	
Motor RPM	1725	1725	
Motor Frame Size	0	0	
Filter—Type	Disposable	Disposable	
Furnished	Yes	Yes	
(No.) Size Recommended in. [mm]	(4)2x16x16 [51x406x406]	(4)2x16x16 [51x406x406]	
Refrigerant Charge Oz. [g]	191 [5415]	191 [5415]	
Weights			
Net Weight lbs. [kg]	689 [313]	689 [313]	
Ship Weight lbs. [kg]	696 [316]	696 [316]	
See Page 11 for Notes.			1 Designates Metric Conversion

See Page 11 for Notes.



NOTES:

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

ے Air

GROSS SYSTEMS PERFORMANCE DATA-RKKL-B072

				EN	ITERING INDOC	OR AIR @ 80°F	[26.7°C] dbE (1)			
		wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]	
		FM [L/s]	2460 [1160.9]	2050 [967.4]	1660 [783.4]	2460 [1160.9]	2050 [967.4]	1660 [783.4]	2460 [1160.9]	2050 [967.4]	1660 [783.4]
		DR ①	0	.06	.12	0	.06	.12	0	.06	.12
	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	55.7 [16.3] 4.7	84.2 [24.7] 47.8 [14.0] 4.6	81.3 [23.8] 40.9 [12.0] 4.6	83.8 [24.6] 65.3 [19.1] 4.4	80.8 [23.7] 56.7 [16.6] 4.3	78.0 [22.9] 49.1 [14.4] 4.3	79.6 [23.3] 71.9 [21.1] 4.1	76.8 [22.5] 63.0 [18.5] 4.0	74.1 [21.7] 54.9 [16.1] 4.0
UTDO	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	85.5 [25.1] 54.8 [16.1] 4.9	82.5 [24.2] 47.1 [13.8] 4.8	79.6 [23.3] 40.3 [11.8] 4.8	82.0 [24.0] 64.4 [18.9] 4.6	79.1 [23.2] 56.0 [16.4] 4.5	76.3 [22.4] 48.5 [14.2] 4.5	77.7 [22.8] 71.0 [20.8] 4.3	75.0 [22.0] 62.2 [18.2] 4.2	72.4 [21.2] 54.3 [15.9] 4.2
O R D	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	83.6 [24.5] 53.7 [15.7] 5.2	80.7 [23.7] 46.2 [13.5] 5.1	77.9 [22.8] 39.5 [11.6] 5.0	80.0 [23.4] 63.2 [18.5] 4.9	77.2 [22.6] 55.0 [16.1] 4.8	74.6 [21.9] 47.7 [14.0] 4.7	75.8 [22.2] 69.9 [20.5] 4.5	73.2 [21.5] 61.3 [18.0] 4.5	70.6 [20.7] 53.5 [15.7] 4.4
R Y B	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	81.6 [23.9] 52.5 [15.4] 5.4	78.7 [23.1] 45.1 [13.2] 5.3	76.0 [22.3] 38.6 [11.3] 5.2	78.0 [22.9] 62.1 [18.2] 5.1	75.3 [22.1] 54.1 [15.9] 5.0	72.7 [21.3] 46.9 [13.8] 4.9	73.8 [21.6] 68.8 [20.2] 4.8	71.2 [20.9] 60.3 [17.7] 4.7	68.8 [20.2] 52.8 [15.5] 4.6
U L B	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	79.5 [23.3] 51.3 [15.0] 5.6	76.7 [22.5] 44.1 [12.9] 5.5	74.0 [21.7] 37.7 [11.1] 5.5	75.9 [22.2] 60.8 [17.8] 5.3	73.3 [21.5] 53.0 [15.5] 5.2	70.7 [20.7] 45.9 [13.5] 5.2	71.7 [21.0] 67.5 [19.8] 5.0	69.2 [20.3] 59.2 [17.4] 4.9	66.8 [19.6] 51.8 [15.2] 4.9
E M P E	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	77.3 [22.7] 49.9 [14.6] 5.9	74.6 [21.9] 42.9 [12.6] 5.8	72.0 [21.1] 36.7 [10.8] 5.7	73.7 [21.6] 59.4 [17.4] 5.6	71.2 [20.9] 51.8 [15.2] 5.5	68.7 [20.1] 44.9 [13.2] 5.4	69.5 [20.4] 66.0 [19.4] 5.3	67.1 [19.7] 58.0 [17.0] 5.2	64.8 [19.0] 50.8 [14.9] 5.1
R A T U	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	75.0 [22.0] 48.4 [14.2] 6.2	72.4 [21.2] 41.7 [12.2] 6.1	69.9 [20.5] 35.7 [10.5] 6.0	71.5 [21.0] 58.1 [17.0] 5.9	68.9 [20.2] 50.5 [14.8] 5.8	66.6 [19.5] 43.9 [12.9] 5.7	67.2 [19.7] 64.6 [18.9] 5.6	64.9 [19.0] 56.8 [16.7] 5.5	62.6 [18.3] 49.7 [14.6] 5.4
R E °F [°C]	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	72.6 [21.3] 46.8 [13.7] 6.5	70.1 [20.5] 40.3 [11.8] 6.4	67.6 [19.8] 34.4 [10.1] 6.3	69.1 [20.3] 56.4 [16.5] 6.2	66.6 [19.5] 49.1 [14.4] 6.1	64.3 [18.8] 42.6 [12.5] 6.0	64.9 [19.0] 63.1 [18.5] 5.9	62.6 [18.3] 55.4 [16.2] 5.8	60.4 [17.7] 48.5 [14.2] 5.7
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	70.1 [20.5] 45.2 [13.3] 6.8	67.7 [19.8] 38.9 [11.4] 6.7	65.3 [19.1] 33.3 [9.8] 6.6	66.6 [19.5] 54.8 [16.1] 6.5	64.2 [18.8] 47.7 [14.0] 6.4	62.0 [18.2] 41.5 [12.2] 6.3	62.4 [18.3] 61.4 [18.0] 6.2	60.2 [17.6] 54.0 [15.8] 6.1	58.1 [17.0] 47.3 [13.9] 6.0

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)].

AIRFLOW PERFORMANCE-6 TON [21.10 kW] THREE PHASE BELT DRIVE

		Capaci	II)	capacity o ion [z1.10 kW]	O KW																									
Air		Voltage		208/230-460 & 5753 Phase	160 & 57	75—3 F	Phase																							
Flow	W												Externa	I Static	Pressu	External Static Pressure—Inches of Water [kPa]	hes of W	Vater [k	(Pa]											
CFM [L/s]	_	0.1 [.02]		0.2 [.05]		0.3[.07]		0.4 [.10]	\vdash	0.5 [.12]	0	0.6 [.15]	0.	0.7[.17]		0.8 [.20]] 6:0	[.22]	1.0	1.0 [.25]	1.1 [.27]	27]	1.2 [.30]	30]	1.3 [.32]	2]	1.4 [.35]		1.5 [.37]	_
		RPM	M	RPM W	N RPM	M Me		RPM W	/ RPM	_	RPM	M W	RPM	M W	RPIM	M	RPM	Μ	RPM	M	RPM	M	RPM	M	RPM	W	RPM	W	RPM	8
1800	[820]	<u> </u>	-	 -	- - -	<u> </u>	_ _	785 560	L	850 605		895 650	026 09	029 01	.0 975	5 720	1010	260	1050	800	1090	850	1120	890	1150	. 046	1180	980 1	1210 10	1015
1900	[897]	1		-	2 –	2 282	280 8	830 61	615 87	875 660		915 700	00 955	15 740	066 01	0 / 270	1020	815	1070	822	1105	925	1135	096	1165 1	1015	1195 1	1075 1	1220 1	1115
2000	[944]	1		277	-8 009	815 6	625 8	29 098	675 89	895 72		930 750	9.00	.2 800	1015	5 840	1050	006	1085	940	1120	1000	1145	1035	1175 1	1090	1205 1	1150 1	1230 13	1205
2100	[991]	1		810 6	8 059	840 6	8 089	880 74	740 92	920 78	780 95	955 820	0 995	15 880	1030	0 920	1065	096	1100	1025	1130	1060	1160	1130	1190 1	1180	1220 1	1250 1	1240 13	1295
2200 [1038]	1038]	780	099	825 7	200 86	865 7	220 8	910 81	810 9	945 85		980 880	1015	5 930	1050	0 1000	1080	1045	1120	1100	1145	1160	1180	1220	1205 1	1260	1230 1	1330 1	1255 1	1380
2300 [1085]		815	720	855 7	38 092	8 068	830 8	930 87	870 96	960 91	1000	096 00	1035	1005	1065	2 1060	1100	1130	1135	1180	1160	1250	1200	1325	1220 1	1370	1240 1	1425	_	
2400 [1133]		845	780	8 088	832 87	920	6 006	920 94	945 96	066 066	30 1025	25 1050	1055	1110	0 1085	5 1155	1120	1215	1150	1335	1185	1355	1220	1430	1235 1	1470	1255 1	1525	<u> </u>	ı
2500 [1180]		870	855	910 9	915 9	945 9	975 9	980 1020	20 1020	20 108	35 1045	11 1140	1080	1200	1110	0 1260	1135	1300	1175	1390	1205	1450	1230	1530	1250 1	1580	1295 1	1630	<u>.</u> 	ı
2600 [1227]		006	945	940 10	1005 97	975 10	1060 10	1005 1105		1040 117	75 1065	35 1225	5 1100	1295	1135	5 1350	1165	1425	1200	1505	1225	1580	1240	1635	1270 1	1665	1	1		ı
2700 [1274]		930	1075	970 11	1100 1000		1145 10	1030 1200	00 1000	60 1260	30 1090	30 1335	1125	5 1395	1155	5 1470	1185	1540	1220	1615	1235	1675	1255	1730	1	1	1	1	_	ı
2800 [1321]	Н	960 1	1150	1000 11	1195 1025	125 12	40 10	1240 1055 1305		1085 135	50 1115	15 1440	1145	15 1510	0 1180	0 1560	1210	1620	1235	1740	1250	1775	1295	1	1	-	1	1	_	П

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

				9	1000		
				. <u>.</u>	9	1050	
]	neter	3.4"-4.4" Pitch Diameter—Adj.	4	1100		
Σ	1/2 [1119]	6.4" Pitch Diameter	itch Diam	3	1145		
	1	6.4"	.4"-4.4" P	2	1195		
			3	1	1230		
				0	1295		
				9	780		
			. <u>.</u>	2	845		
]	neter	eter—Adj	4	895		
_	11/2 [1119]	6.4" Pitch Diameter	itch Diam	3	945		
	1	6.4"	6.4" F	6.4" F	2.8"-3.8" Pitch Diameter—Adj	2	1000
			2	-	1050		
				0	1100		
Drive Package	Motor H.P. [W]	Blower Sheave	Motor Sheave	Turns Open	RPM		

NOTE: Factory sheave settings are shown in bold print.

Amps (LRA), Comp. 1 No.

Volts

Phase

HP

Amps (FLA, each)

Amps (LRA, each)

No.

Volts

Phase HP

Amps (FLA, each)

Amps (LRA, each)

Condenser Motor

Evaporator Fan

14

123/0

1

208/230

1

1/3

2.6/2.6

4.7/4.7

1

208/230

3

1 1/2

5.8/5.8

34/34

62

1

460

1

1/3

1.25

2.4

1

460

3

1 1/2

2.8

17

62

1

460

1

1/3

1.25

2.4

1

460

3

1 1/2

2.8

17

50

1

575

1

1/3

0.9

1.5

1

575

3

1 1/2

2.1

13.1

123/0

1

208/230

1

1/3

2.6/2.6

4.7/4.7

1

208/230

3

1 1/2

5.8/5.8

34/34

B072YM

518-632

575

13

15

15

1

575

3

3450

5

7.5

50

1

575

1

1/3

0.9

1.5

1

575

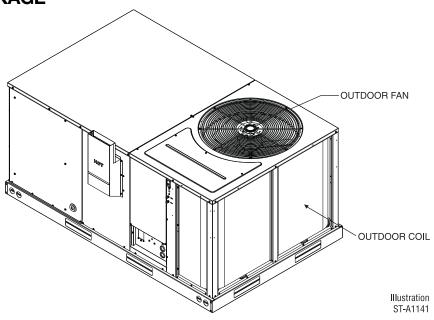
3

1 1/2

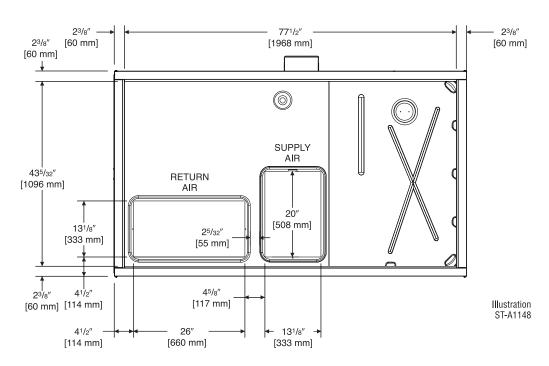
2.1

13.1

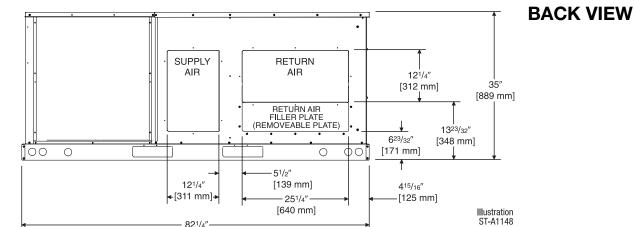
GAS HEAT / ELECTRIC COOLING PACKAGE

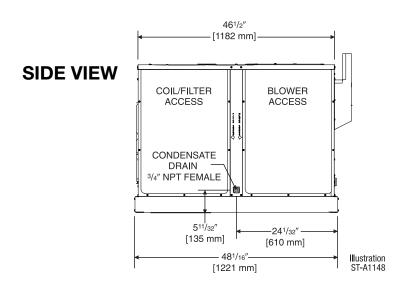


BOTTOM VIEW

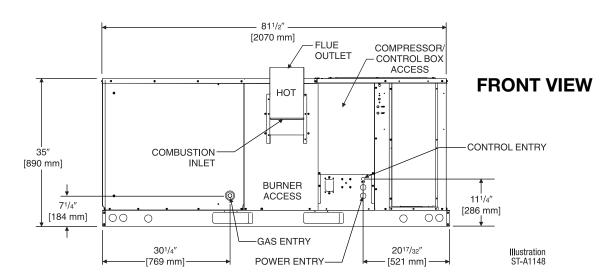


GAS HEAT / ELECTRIC COOLING PACKAGE





— 82¹/₄"— [2089 mm]



WEIGHTS

	6 Ton [21.1 kW]
Accessory	Shipping	Operating
	lbs [kg]	lbs [kg]
Economizer with Single Enthalapy	70 [32]	60 [27]
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]		
ĺ	6 [21.1]	381/4 [972]	253/4 [654]		

Capacity Tons [kW]	Corner	Weights by Percentag		
	Α	В	С	D
6 [21.1]	22%	27%	23%	28%

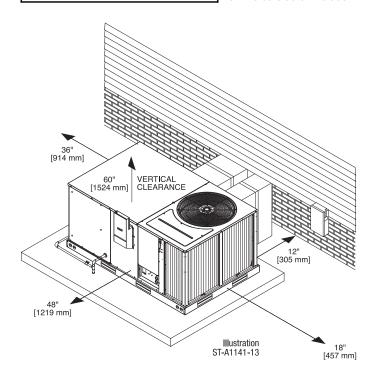
CLEARANCES

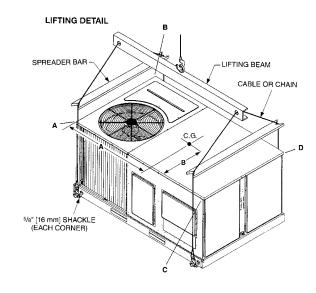
(6 Ton [21.1 kW] Models)

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.





ACCESSORY EQUIPMENT

Accessory Description	Model Application	Accessory Model No.	Factory Installed
Thermostats	RKKL-B072	See Thermostat Specification Sheet (T11-001)	No
Roofcurb, 14"	RKKL-B072	RXKG-CAD14	No
Roofcurb, 24"	RKKL-B072	RXKG-CAD24	No
Roofcurb adapters	RKKL-B072	RXRX-CCCE50	No
Economizer, downflow/horizontal, single enthalpy	RKKL-B072	AXRD-MCCM3	Yes
Dual enthalpy kit for economizer	RKKL-B072	RXRX-AV02	No
CO₂ sensor	RKKL-B072	RXRX-AR02	No
Power exhaust (C, D, Y voltages)	RKKL-B072	AXRX-BGF03	No
Fresh air damper, manual	RKKL-B072	AXRF-FCA1	No
Fresh air damper, motorized	RKKL-B072	AXRF-JHB1	No
Rectangular-to-round 20" duct adapters for concentric diffuser	RKKL-B072	RXMC-CC04	No
Concentric diffuser 20", step type	RKKL-B072	RXRN-FA65	No
Concentric diffuser 20", flush type	RKKL-B072	RXRN-FA75	No
Louver kit, 3-sided	RKKL-B072	AXRX-AAD01B	Yes
Compressor time delay	RKKL-B072	RXMD-B04	No
Low ambient control	RKKL-B072	RXRZ-A85	Yes
Convenience outlet (requires separate power supply)	RKKL-B072	RXRX-AN02	Yes
Service disconnect switch	RKKL-B072	RXRX-AP02	Yes
LP conversion kit for White Rodgers gas valve (see note 1)	RKKL-B072	RXGJ-EP84W	No
LP conversion kit for Honeywell gas valve (see note 1)	RKKL-B072	RXGJ-EP85H	No
Freeze stat control	RKKL-B072	RXRX-AM01	Yes
Canadian high-altitude kit for natural gas only (see note 1)	RKKL-B072	RXRX-AH01	No

*Voltage

C = 208/230 VAC-3PH-60HZ D = 460 VAC-3PH-60HZ

Y = 575 VAC-3PH-60HZ

 $\textbf{NOTES:}\ 1.$ 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.

THERMOSTATS





300-Series *
Deluxe
Programmable
400-Series *
Special Applications/
Programmable



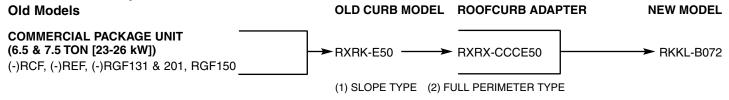
500-Series * Communicating/Programmable

Brand		Descripter (3 Characters)	Series (3 Characters)	System (2 Characters)	Type (2 Characters)
RHC	-	TST	213	UN	MS
RHC=Rheem		TST=Thermostat	200=Programmable 300=Deluxe Programmable 400=Special Applications/ Programmable 500=Communicating/ Programmable	GE=Gas/Electric UN=Universal (AC/HP/GE) MD=Modulating Furnace DF=Dual Fuel CM=Communicating	SS=Single-Stage MS=Multi-Stage

^{*} Photos are representative. Actual models may vary.

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

Roofcurb Adapters





ECONOMIZERS

AXRD-TCCM3-RKKL-B 6 Ton [21.1 kW] Models

RXRX-AV02-6 Ton [21.1 kW] Models

RXRX-AR02-6 Ton [21.1 kW] Models

Single Enthalpy (with Barometric Relief)

Dual Enthalpy Kit

Optional CO₂ Sensor

■ Features Honeywell Analog Controls

Available factory installed or field accessory

■ Gear Driven Direct Drive Actuator

■ Fully Modulating (0-100%)

■ Low Leakage Dampers

■ Horizontal or Downflow Applications

■ Slip-In Design for Easy Installations

■ Plug-In Polarized Electrical Connections

■ Pre-configuring — No Field Adjustments Necessary

Standard Barometric Relief Damper Provided

■ Single Enthalpy with Dual Enthalpy upgrade kit

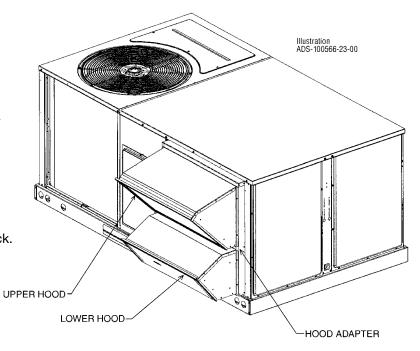
■ CO₂ Input Sensor Available (field installed)

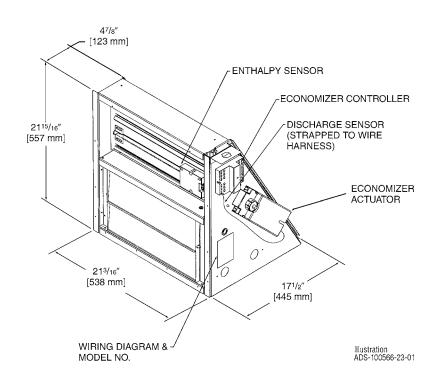
 Economizer slips in complete for downflow or horizontal duct applications

■ Field assembled hood ships with Economizer

 Optional Remote minimum position (Honeywell #S963B1128) is available from ProStock.

• Field installed power exhaust available.





INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

AXRX-BGF03C-RKKL-B 6 Ton [21.1 kW]

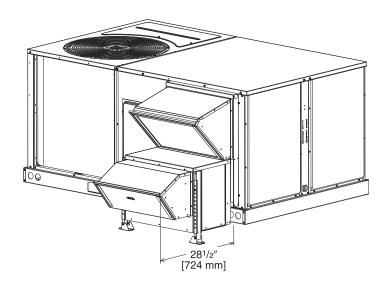
Models 208-230 V, 1 PH, 60 Hz

AXRX-BGF03D-RKKL-B 6 Ton [21.1 kW] Models 460 V, 3 PH, 60 Hz

AXRX-BGF03Y - RKKL-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.



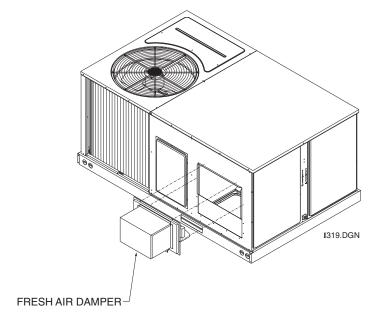
POWER EXHAUST KIT FOR RXRD-MCCM(-), RXRD-MECM(-) ECONOMIZERS

Model No.	No. of Fans	Fans Volts Phase Watts (ea.)		High S	peed	FLA (ea.)	LRA (ea.)	
Model No.	NU. UI FAIIS	Vuits	Filase	walls (ea.)	CFM ①	RPM	FLA (ea.)	LNA (Ba.)
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.

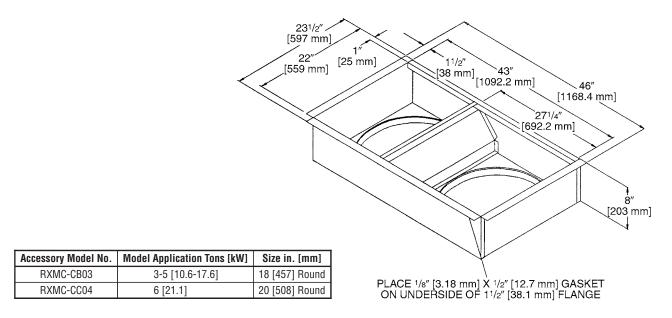
FRESH AIR DAMPER

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



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

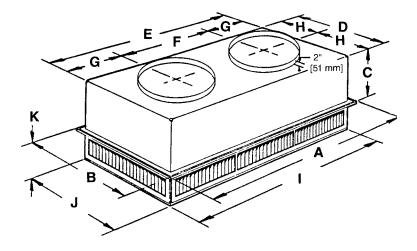
DUCT ADAPTERS (RKKL-B 6 Ton [21.1 kW] Models) Rectangular to Round Transitions (Downflow) RXMC-CC04 20" [508 mm] Round



SIDE DISCHARGE CONCENTRIC DIFFUSER

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

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	Α	В	C	D	E	F	G	Н	Ι	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

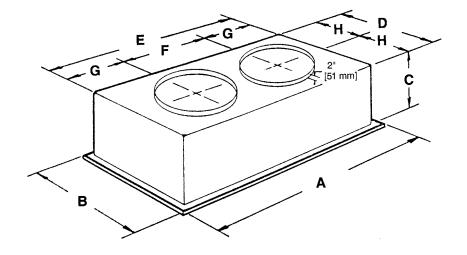
ENGINEERING DATA

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

FLUSH MOUNT CONCENTRIC DIFFUSER

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

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	А	В	С	D	E	F	G	Н	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
	2600 [1227]	.17	19-24	663	1294	30
	2800 [1321]	.20	20-28	714	1393	35
RXRN-FA75	3000 [1416]	.25	21-29	765	1492	35
	3200 [1510]	.31	22-29	816	1592	40
	3400 [1605]	.37	22-30	867	1692	40

UNIT

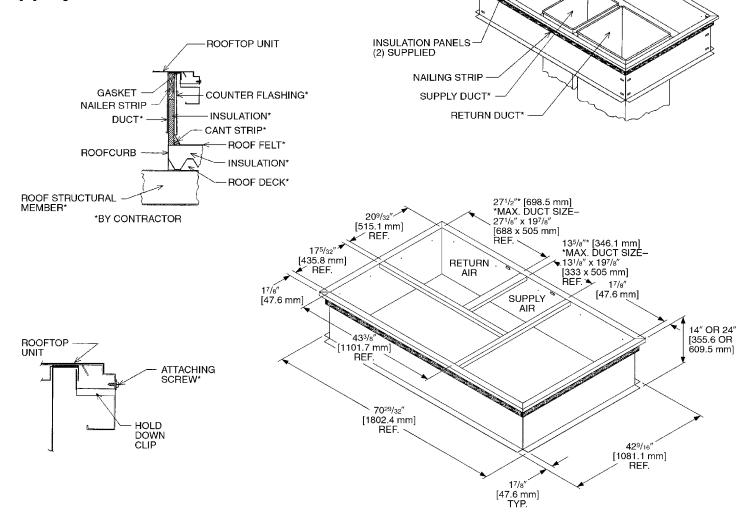
TYPICAL INSTALLATION

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



HOLD ----DOWN BRACKET

TYP. (4) PLCS.

AND ON DIVIDERS, MUST BE ABOVE DUCT AND INSULATION PANEL FLANGES.)

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 with powder paint 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

The evaporator and condenser coils shall be fabricated of copper tubes with mechanically bonded aluminum plate fins. They shall be pressure tested prior to assembly into the unit, and electronically leak tested after assembly.

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.

Electric Heat Kits

Electric heat kits shall be available in a wide range of capacity with branch circuit fusing allowing single point wiring. Kits shall be UL/cUL approved. Each kit shall be offered as a field or factory installed option.

Pressure Controls

High and low pressure controls shall be included for field or factory installation.

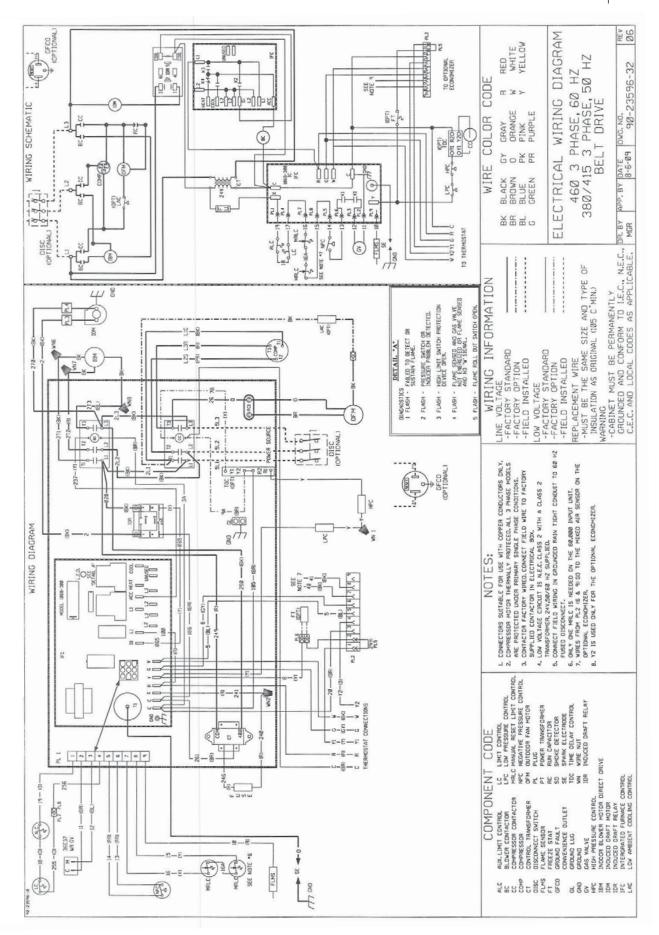
Low Ambient Control

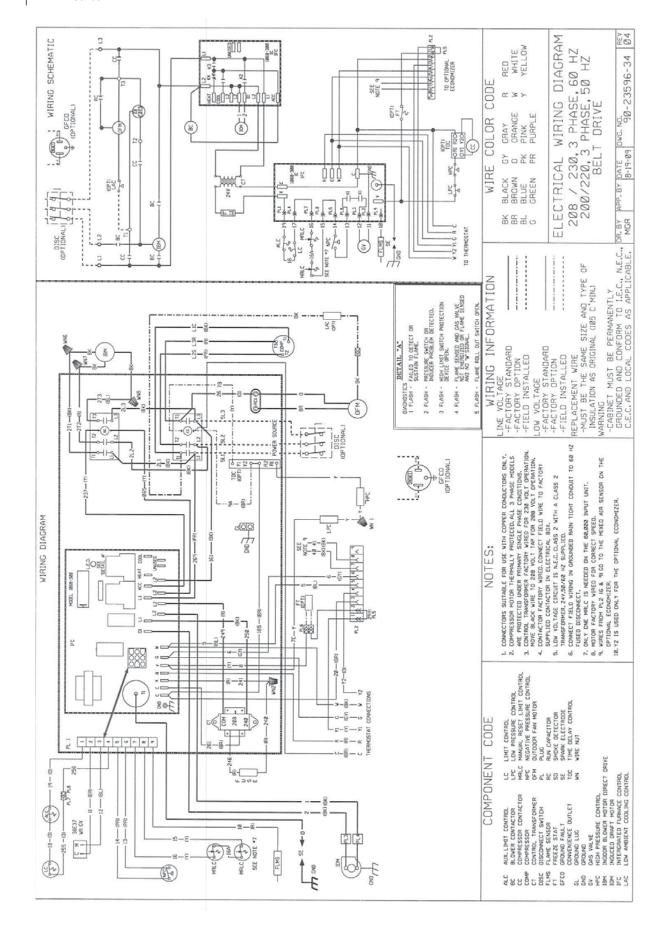
Low ambient control shall be provided to cycle the condenser fan in response to condensing pressure and allow operation to 0 degrees F. The option shall be field or factory installed.

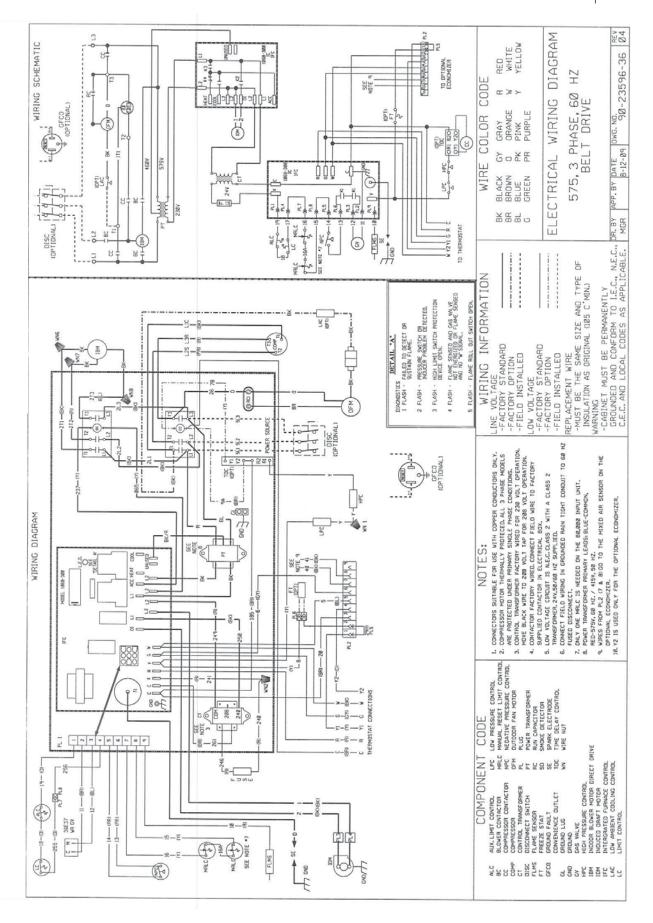
Louver Panel Kits

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 Applications.....Ten (10) Years



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

