PACKAGE GAS / ELECTRIC ROOFTOP UNITS

FORM NO. R11-845 REV. 4
Supersedes Form No. R11-845 Rev. 3

Featuring Industry Standard R-410A Refrigerant

formerly Puron®

R-410A

RKKL- STANDARD EFFICIENCY SERIES

NOMINAL SIZES 6 TON [21.1 kW]
(3 PHASE ONLY)

Accredited by the RvA
ASQ Quality Evaluations, Inc. Management System Certification
ANAB ACCREDITED
ISO 9001:2008
Certificate Number: 30164

c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Large HP
AHRI Standard 340/360
Certification applies only when the complete system is listed with AHRI.

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

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.

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

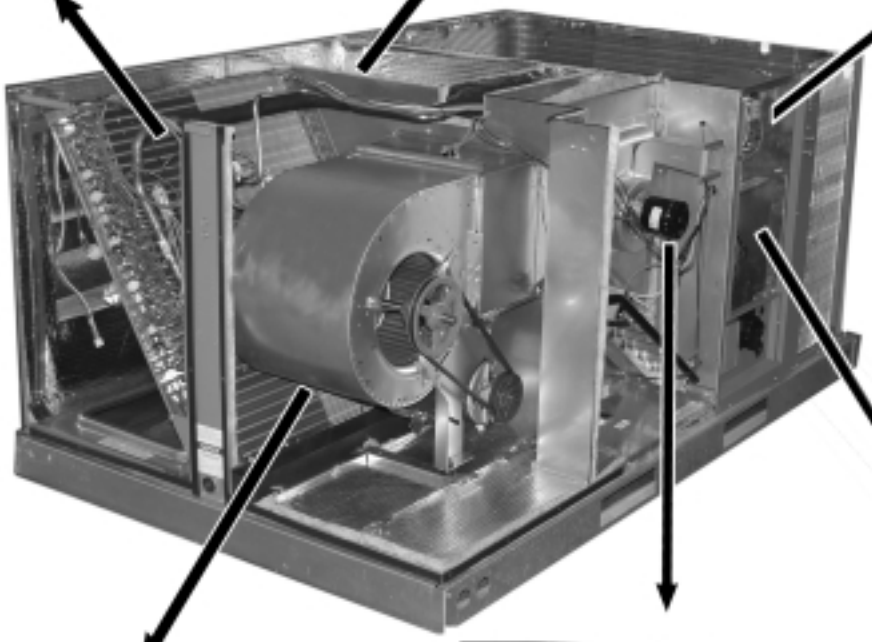
Evaporator Coil/Filter Access

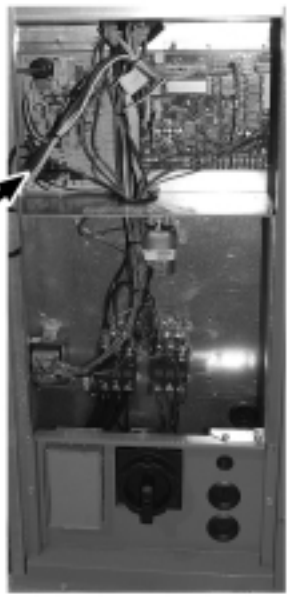
- Return air filters, normally provided, are removed in this photo.

Tubular Heat Exchanger

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

- Non-corrosive plastic condensate pan





Control Box Access

Blower Access

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

Heating Compartment Access

Compressor Access (3 to 5 Ton [10.6 to 17.6 kW] Models)

[ ] Designates Metric Conversions

1. **Determine cooling and heating requirements at design conditions.**
   Example:
   - Power Supply .....208/230-3 Phase
   - Total cooling capacity .....66,000 BTUH [19.34 kW]
   - Sensible cooling capacity .....61,000 BTUH [17.88 kW]
   - Heating capacity .....96,000 BTUH [28.13 kW]
   - Condenser entering air .....95°F [35°C]
   - Evaporator entering air .....63°F [17°C] wb/76°F [24°C] db
   - Indoor air flow .....2460 CFM [1161 L/s]
   - External static pressure.....1.1 in wg
   - Required efficiency .....11.2 EER

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]
   - Sensible capacity .....67,500 BTUH [19.78 kW]
   - Power input .....5.0 kW

   And also, at 76°F [24°C] db indoor entering air, and using the formula at the bottom of the table:
   - Sensible capacity .....56,676 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:
   - RPM 1197
   - Watts.....1392
   - Drive .....M

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

[ ] Designates Metric Conversions

MODEL IDENTIFICATION—RKKL- SERIES

R K K L — B 072 C L 08 E X X X

- Economizer Option (See Next Page)
- Factory Installed Options (See Next Page)
- Ignition System
  E = Electric Ignition, 1 Stage Gas Valve
  X = Electric Ignition, 1 Stage Gas Valve, NO_x
- Heating Capacity (MBH)
  10 = 100,000 [29.3]
  13 = 135,000 [39.6]
- Drive Package
  L = Belt Drive
  M = Belt Drive—High Static
- Electrical Designation
  C = 208-230 V, 3 PH, 60 Hz
  D = 460 V, 3 PH, 60 Hz
  Y = 575 V, 3 PH, 60 Hz
- Cooling Capacity (BTUH) [kW]
  072 = 72,000 [21.10]
- Future Technical Variations
- Design Series
  (R-410A)
- Efficiency Designation
  K = 11.2 EER
- Product Classification
  K = Rooftop—Commercial
- Tradebrand
  R = Rheem Package Gas Electric

[ ] Designates Metric Conversions

FACTORY INSTALLED OPTION CODES FOR RKKL (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	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: RKKL-B072CL13E**XX**X *(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 (6 TON) [21.1 kW]

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

"x" indicates factory installed option.

[ ] Designates Metric Conversions

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				
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]
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	1 at 1/3 HP	1 at 1/3 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				
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.

[ ] Designates Metric Conversions

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/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				
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]
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	1 at 1/3 HP	1 at 1/3 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				
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.

[ ] Designates Metric Conversions

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	N/A	N/A
Net System Power kW	6.21	6.21
Heating Performance (Gas)[3]		
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		
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.

[ ] 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 ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER is rated at AHRI conditions and in accordance with DOE test procedures.
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.

GROSS SYSTEMS PERFORMANCE DATA—RKKL-B072

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]			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	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	87.3 [25.6]	84.2 [24.7]	81.3 [23.8]	83.8 [24.6]	80.8 [23.7]	78.0 [22.9]	79.6 [23.3]	76.8 [22.5]	74.1 [21.7]	
		Sens BTUH [kW]	55.7 [16.3]	47.8 [14.0]	40.9 [12.0]	65.3 [19.1]	56.7 [16.6]	49.1 [14.4]	71.9 [21.1]	63.0 [18.5]	54.9 [16.1]	
		Power	4.7	4.6	4.6	4.4	4.3	4.3	4.1	4.0	4.0	
	80 [26.7]	Total BTUH [kW]	85.5 [25.1]	82.5 [24.2]	79.6 [23.3]	82.0 [24.0]	79.1 [23.2]	76.3 [22.4]	77.7 [22.8]	75.0 [22.0]	72.4 [21.2]	
		Sens BTUH [kW]	54.8 [16.1]	47.1 [13.8]	40.3 [11.8]	64.4 [18.9]	56.0 [16.4]	48.5 [14.2]	71.0 [20.8]	62.2 [18.2]	54.3 [15.9]	
		Power	4.9	4.8	4.8	4.6	4.5	4.5	4.3	4.2	4.2	
	85 [29.4]	Total BTUH [kW]	83.6 [24.5]	80.7 [23.7]	77.9 [22.8]	80.0 [23.4]	77.2 [22.6]	74.6 [21.9]	75.8 [22.2]	73.2 [21.5]	70.6 [20.7]	
		Sens BTUH [kW]	53.7 [15.7]	46.2 [13.5]	39.5 [11.6]	63.2 [18.5]	55.0 [16.1]	47.7 [14.0]	69.9 [20.5]	61.3 [18.0]	53.5 [15.7]	
		Power	5.2	5.1	5.0	4.9	4.8	4.7	4.5	4.5	4.4	
	90 [32.2]	Total BTUH [kW]	81.6 [23.9]	78.7 [23.1]	76.0 [22.3]	78.0 [22.9]	75.3 [22.1]	72.7 [21.3]	73.8 [21.6]	71.2 [20.9]	68.8 [20.2]	
		Sens BTUH [kW]	52.5 [15.4]	45.1 [13.2]	38.6 [11.3]	62.1 [18.2]	54.1 [15.9]	46.9 [13.8]	68.8 [20.2]	60.3 [17.7]	52.8 [15.5]	
		Power	5.4	5.3	5.2	5.1	5.0	4.9	4.8	4.7	4.6	
	95 [35]	Total BTUH [kW]	79.5 [23.3]	76.7 [22.5]	74.0 [21.7]	75.9 [22.2]	73.3 [21.5]	70.7 [20.7]	71.7 [21.0]	69.2 [20.3]	66.8 [19.6]	
		Sens BTUH [kW]	51.3 [15.0]	44.1 [12.9]	37.7 [11.1]	60.8 [17.8]	53.0 [15.5]	45.9 [13.5]	67.5 [19.8]	59.2 [17.4]	51.8 [15.2]	
		Power	5.6	5.5	5.5	5.3	5.2	5.2	5.0	4.9	4.9	
	100 [37.8]	Total BTUH [kW]	77.3 [22.7]	74.6 [21.9]	72.0 [21.1]	73.7 [21.6]	71.2 [20.9]	68.7 [20.1]	69.5 [20.4]	67.1 [19.7]	64.8 [19.0]	
		Sens BTUH [kW]	49.9 [14.6]	42.9 [12.6]	36.7 [10.8]	59.4 [17.4]	51.8 [15.2]	44.9 [13.2]	66.0 [19.4]	58.0 [17.0]	50.8 [14.9]	
		Power	5.9	5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.1	
	105 [40.6]	Total BTUH [kW]	75.0 [22.0]	72.4 [21.2]	69.9 [20.5]	71.5 [21.0]	68.9 [20.2]	66.6 [19.5]	67.2 [19.7]	64.9 [19.0]	62.6 [18.3]	
		Sens BTUH [kW]	48.4 [14.2]	41.7 [12.2]	35.7 [10.5]	58.1 [17.0]	50.5 [14.8]	43.9 [12.9]	64.6 [18.9]	56.8 [16.7]	49.7 [14.6]	
		Power	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4	
	110 [43.3]	Total BTUH [kW]	72.6 [21.3]	70.1 [20.5]	67.6 [19.8]	69.1 [20.3]	66.6 [19.5]	64.3 [18.8]	64.9 [19.0]	62.6 [18.3]	60.4 [17.7]	
		Sens BTUH [kW]	46.8 [13.7]	40.3 [11.8]	34.4 [10.1]	56.4 [16.5]	49.1 [14.4]	42.6 [12.5]	63.1 [18.5]	55.4 [16.2]	48.5 [14.2]	
		Power	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	
	115 [46.1]	Total BTUH [kW]	70.1 [20.5]	67.7 [19.8]	65.3 [19.1]	66.6 [19.5]	64.2 [18.8]	62.0 [18.2]	62.4 [18.3]	60.2 [17.6]	58.1 [17.0]	
		Sens BTUH [kW]	45.2 [13.3]	38.9 [11.4]	33.3 [9.8]	54.8 [16.1]	47.7 [14.0]	41.5 [12.2]	61.4 [18.0]	54.0 [15.8]	47.3 [13.9]	
		Power	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	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)].

[ ] Designates Metric Conversions

ELECTRICAL DATA – RKKL SERIES							
		B072CL	B072CM	B072DL	B072DM	B072YL	B072YM
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
	Minimum Circuit Ampacity	33/33	33/33	17	17	13	13
	Minimum Overcurrent Protection Device Size	40/40	40/40	20	20	15	15
	Maximum Overcurrent Protection Device Size	50/50	50/50	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	19.1/0	19.1/0	9.8	9.8	7.5	7.5
	Amps (LRA), Comp. 1	123/0	123/0	62	62	50	50
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	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.6/2.6	2.6/2.6	1.25	1.25	0.9	0.9
	Amps (LRA, each)	4.7/4.7	4.7/4.7	2.4	2.4	1.5	1.5
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	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	Amps (FLA, each)	5.8/5.8	5.8/5.8	2.8	2.8	2.1	2.1
	Amps (LRA, each)	34/34	34/34	17	17	13.1	13.1

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
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	1135	960	1165	1015	1195	1075	1220	1115
2000 [944]	—	—	775	600	815	625	860	675	895	720	930	750	975	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	1180	1220	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	1220	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	L							M						
Motor H.P. [W]	1½ [1119]							1½ [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

UNIT DIMENSIONS GAS HEAT / ELECTRIC COOLING PACKAGE

RKKL 6 TON [21.1 kW] MODELS

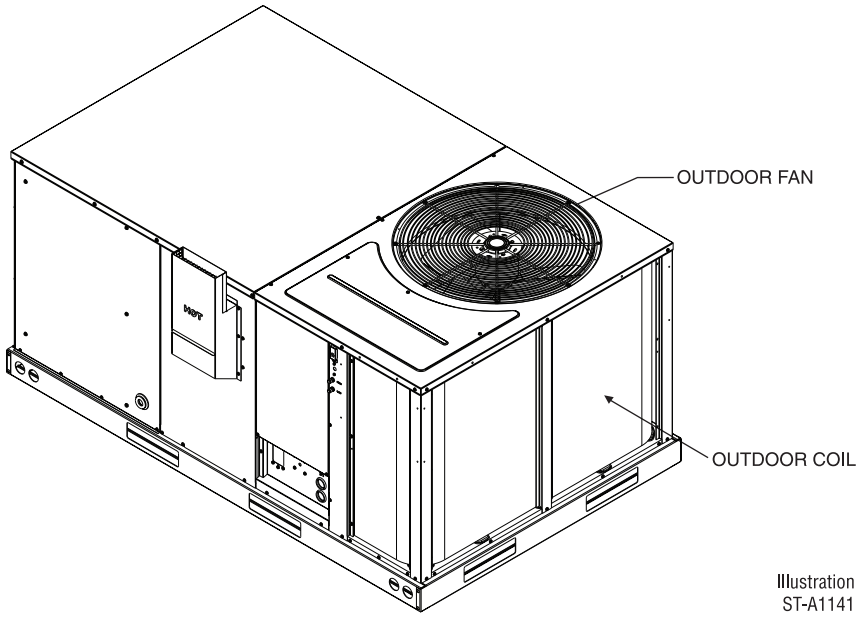


Illustration ST-A1141

BOTTOM VIEW

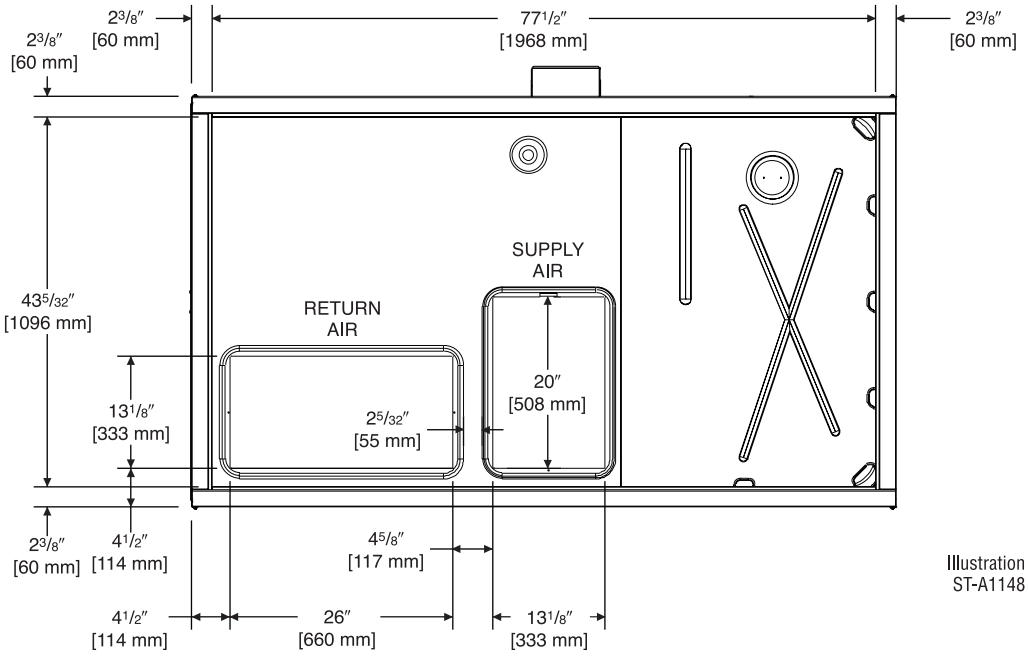


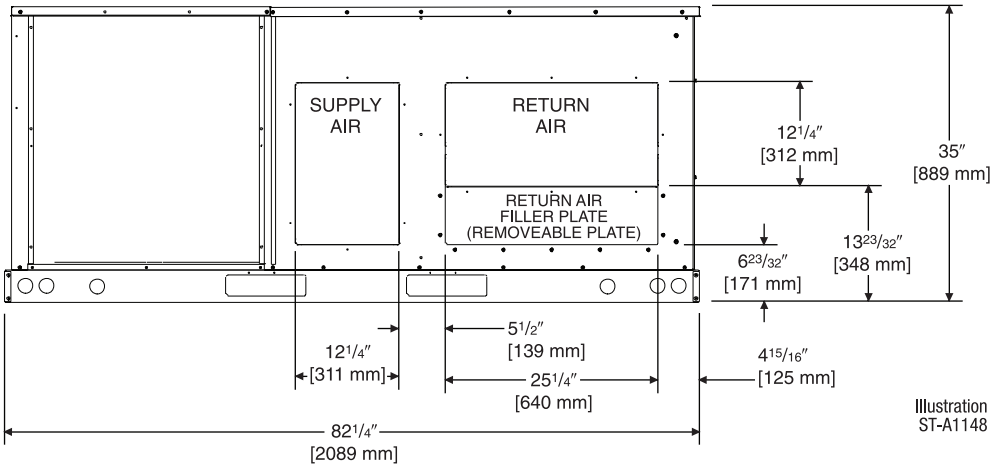
Illustration ST-A1148

[ ] Designates Metric Conversions

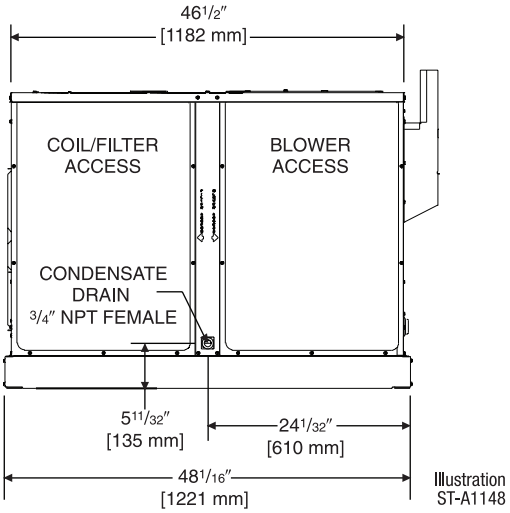
UNIT DIMENSIONS GAS HEAT / ELECTRIC COOLING PACKAGE

RKKL 6 TON [21.1 kW] MODELS

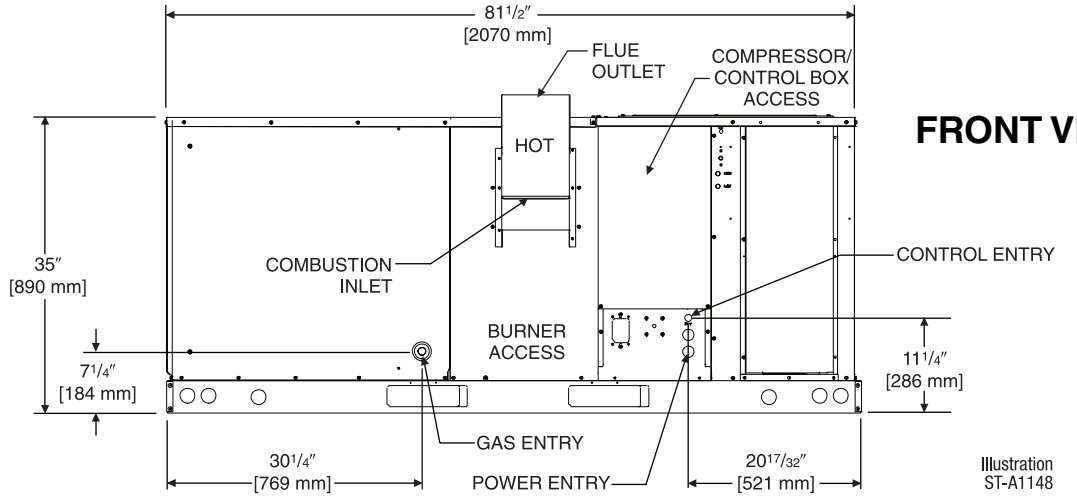
BACK VIEW



SIDE VIEW



FRONT VIEW



[ ] Designates Metric Conversions

WEIGHTS

Accessory	6 Ton [21.1 kW]	
	Shipping lbs [kg]	Operating 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]
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.

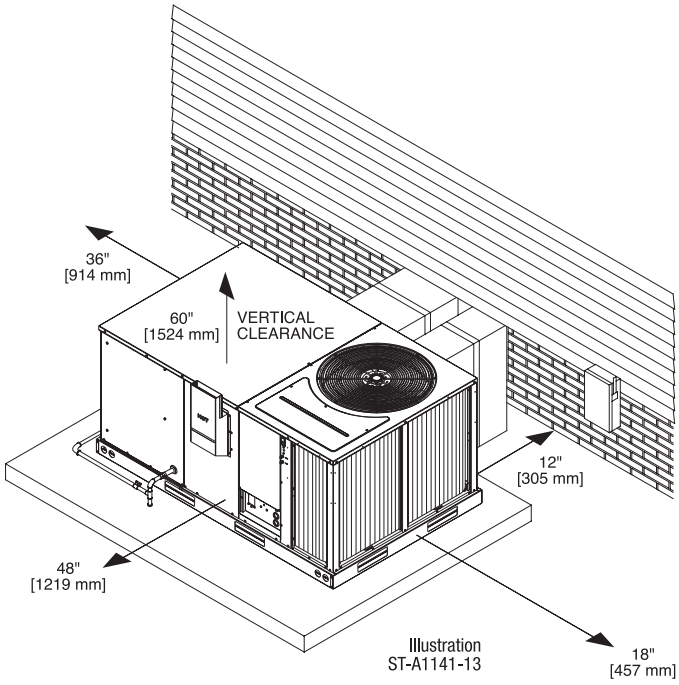
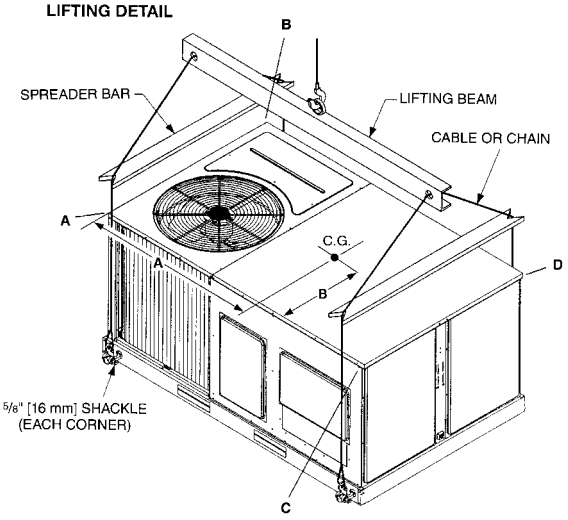


Illustration
ST-A1141-13

LIFTING DETAIL



[ ] Designates Metric Conversions

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	RXRD-TCCM3	Yes
Dual enthalpy kit for economizer	RKKL-B072	RXRX-AV02	No
CO_2 sensor	RKKL-B072	RXRX-AR02	No
Power exhaust (C, D, Y voltages)	RKKL-B072	RXRX-BGF03	No
Fresh air damper, manual	RKKL-B072	RXRF-FCA1	No
Fresh air damper, motorized	RKKL-B072	RXRF-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	RXRX-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

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.

[ ] Designates Metric Conversions

THERMOSTATS

100-Series *
Non-Programmable

200-Series *
Programmable

300-Series *
Deluxe
Programmable

400-Series *
Special Applications/
Programmable

500-Series *
Communicating/
Programmable

Brand	Unique Model Number Prefix		Descriptor (3 Characters)	Series (3 Characters)	System (2 Characters)	Type (2 Characters)
RHC		-	TST	101	GE	MS
RHC=Rheem			TST=Thermostat	100=Non-Programmable 200=Programmable 300=Deluxe Programmable 400=Special Applications/ Programmable 500=Communicating/ Programmable	GE=Gas/Oil/Electric HP=Heat Pump MD=Modulating Furnace DF=Dual Fuel UN=Universal AC/HP/GE CM=Communicating	SS=Single-Stage MS=Multi-Stage

** Photos are representative. Actual models may vary.*

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

Roofcurb Adapters

Old Models

COMMERCIAL PACKAGE UNIT
(6.5 & 7.5 TON [23-26 kW])
(-)RCF, (-)REF, (-)RGF131 & 201, RGF150

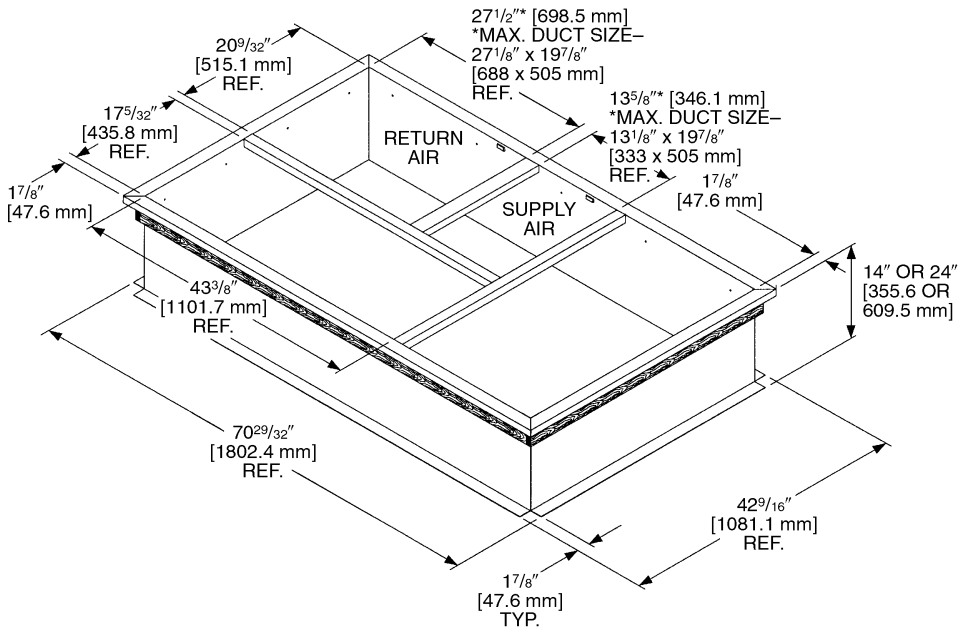
OLD CURB MODEL	ROOFCURB ADAPTER	NEW MODEL
RXRK-E50	RXRX-CCCE50	RKKL-B072

(1) SLOPE TYPE (2) FULL PERIMETER TYPE

[ ] Designates Metric Conversions

ROOFCURBS (Cont.)

ROOFCURB FOR
RKKL 6 TON [21.1 kW] MODELS



[ ] Designates Metric Conversions

ECONOMIZERS

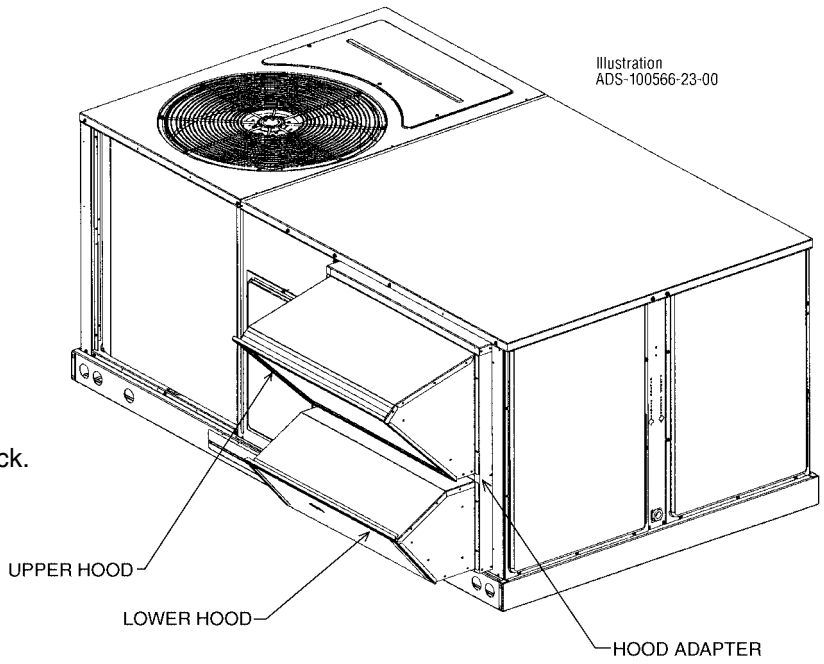
RXRD-TCCM3—RKKL 6 Ton [21.1 kW] Models **Single Enthalpy (with Barometric Relief)**

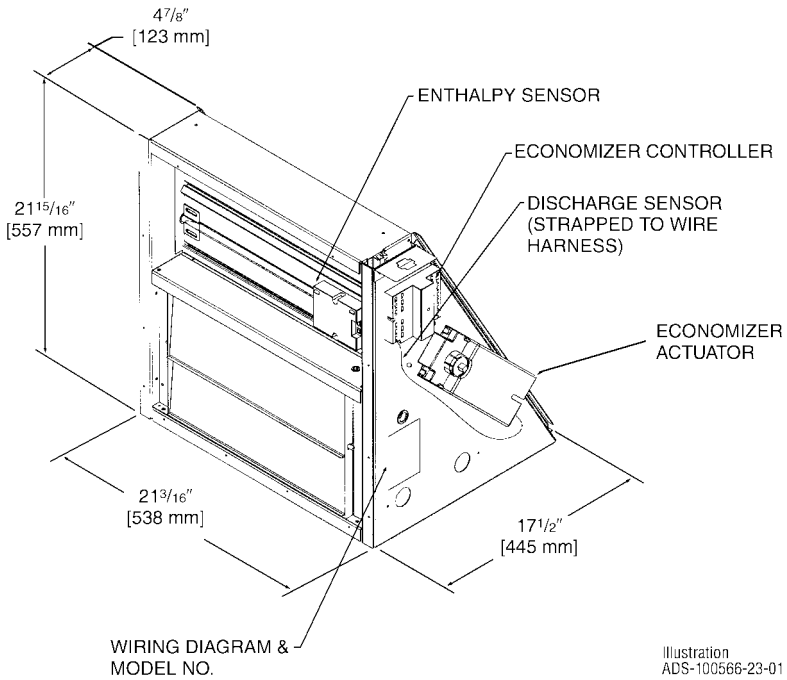
RXRX-AV02—6 Ton [21.1 kW] Models **Dual Enthalpy Kit**

RXRX-AR02—6 Ton [21.1 kW] Models **Optional CO_2 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
- CO_2 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.

[ ] Designates Metric Conversions

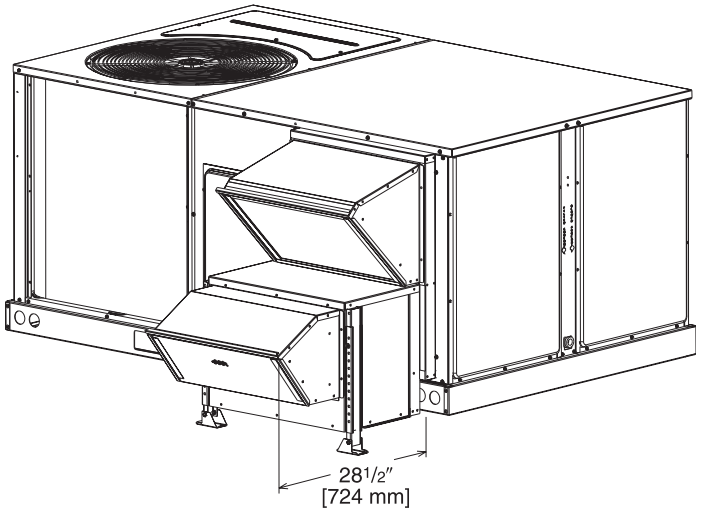




INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

RXRX-BGF03C—RKKL 6 Ton [21.1 kW]
Models 208-230 V, 1 PH, 60 Hz
RXRX-BGF03D—RKKL 6 Ton [21.1 kW]
Models 460 V, 3 PH, 60 Hz
RXRX-BGF03Y—RKKL 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

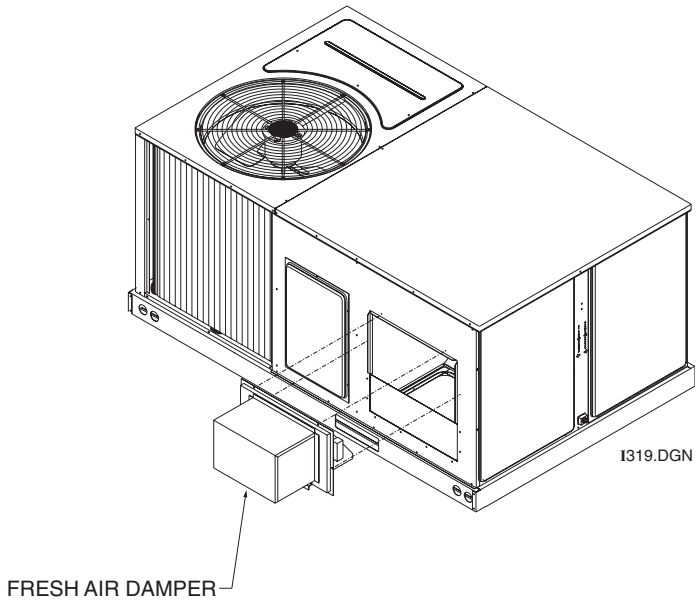
Model No.	No. of Fans	Volts	Phase	Watts (ea.)	High Speed		FLA (ea.)	LRA (ea.)
					CFM ①	RPM		
RXRX-BGF03C	1	208/230	1	1000	2500	1725	4.4	23.7
RXRX-BGF03D	1	460	1	800	2370	1620	1.8	4.1
RXRX-BGF03Y ②	1	575	1	800	2370	1620	1.5	3.3

① CFM is at 0" W.C. external static pressure.
② Unit includes 575 to 460 Volt step-down transformer.

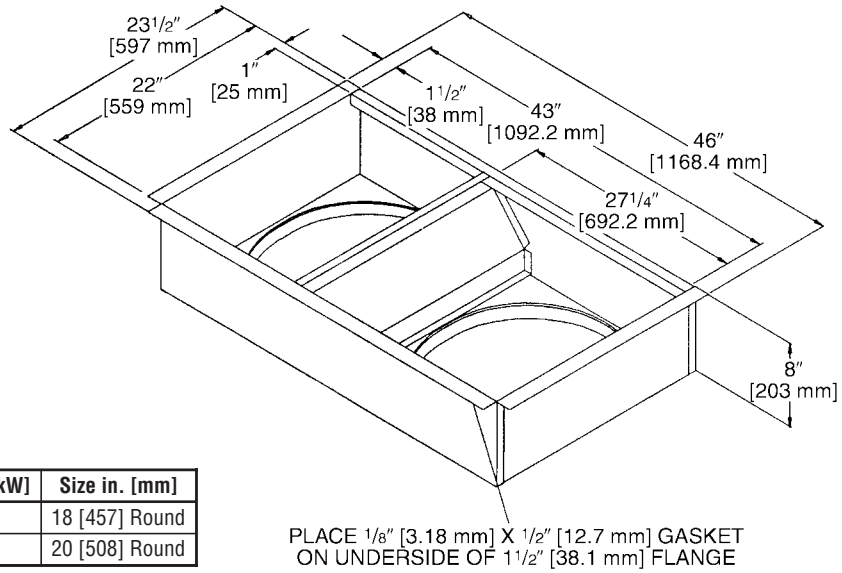
FRESH AIR DAMPER

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

[ ] Designates Metric Conversions



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



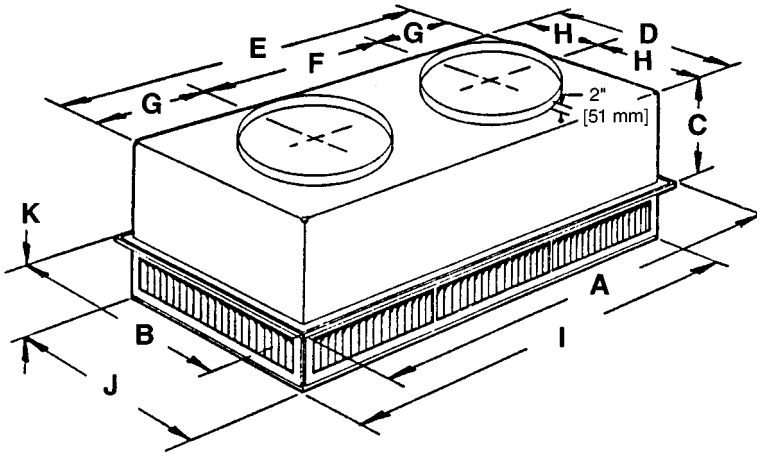
Accessory Model No.	Model Application Tons [kW]	Size in. [mm]
RXMC-CB03	3-5 [10.6-17.6]	18 [457] Round
RXMC-CC04	6 [21.1]	20 [508] Round

[ ] 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

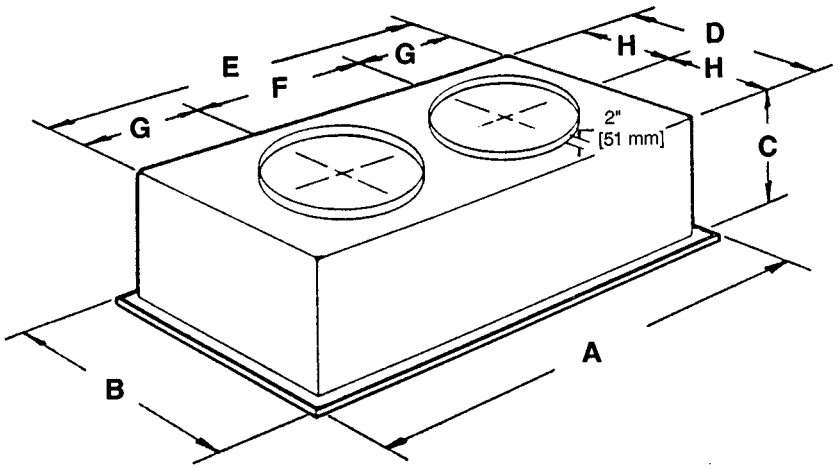
Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA65	2600 [1227]	.17	24-29	669	669	20
	2800 [1321]	.20	25-30	720	720	25
	3000 [1416]	.25	27-33	772	772	25
	3200 [1510]	.31	28-35	823	823	25
	3400 [1605]	.37	30-37	874	874	30

[ ] Designates Metric Conversions

FLUSH MOUNT CONCENTRIC DIFFUSER

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

For Use With Duct Adapter (RXMC)



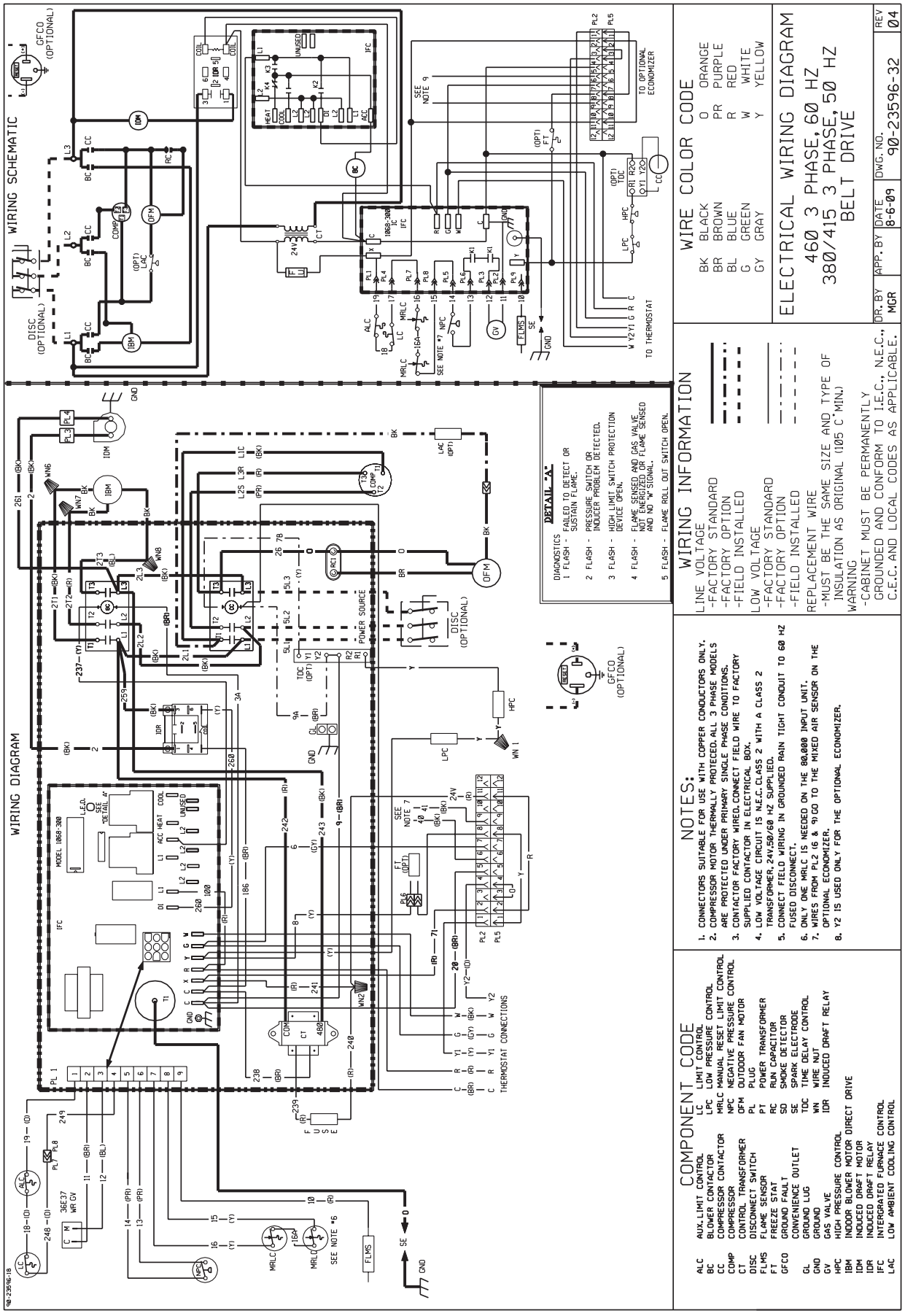
DIMENSIONAL DATA

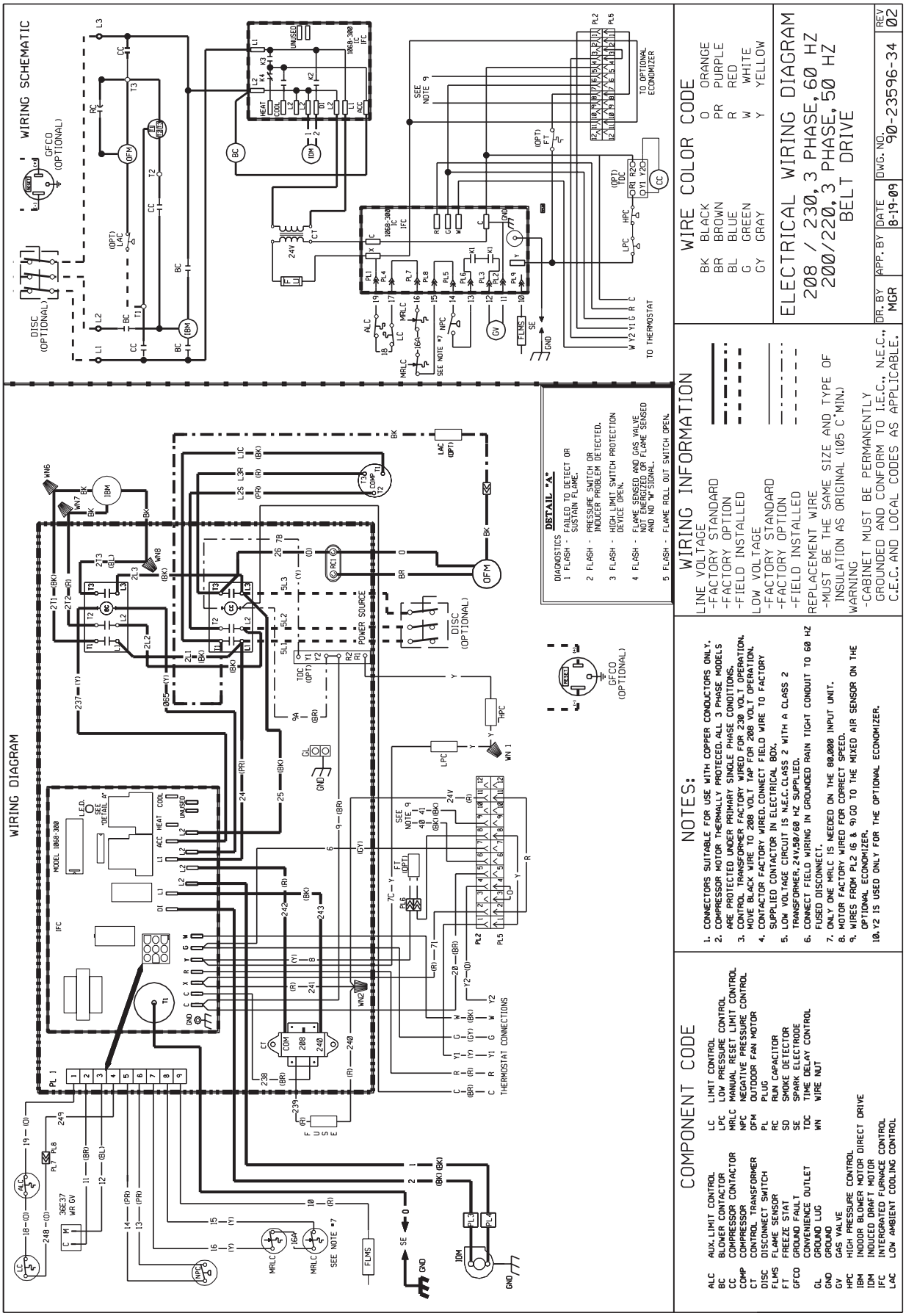
Model No.	A	B	C	D	E	F	G	H	Duct Size
RXRN-FA75	47 5/8" [1210 mm]	29 5/8" [752 mm]	16 5/8" [422 mm]	27" [686 mm]	45" [1143 mm]	22 1/2" [572 mm]	11 1/4" [286 mm]	13 1/2" [343 mm]	20RD

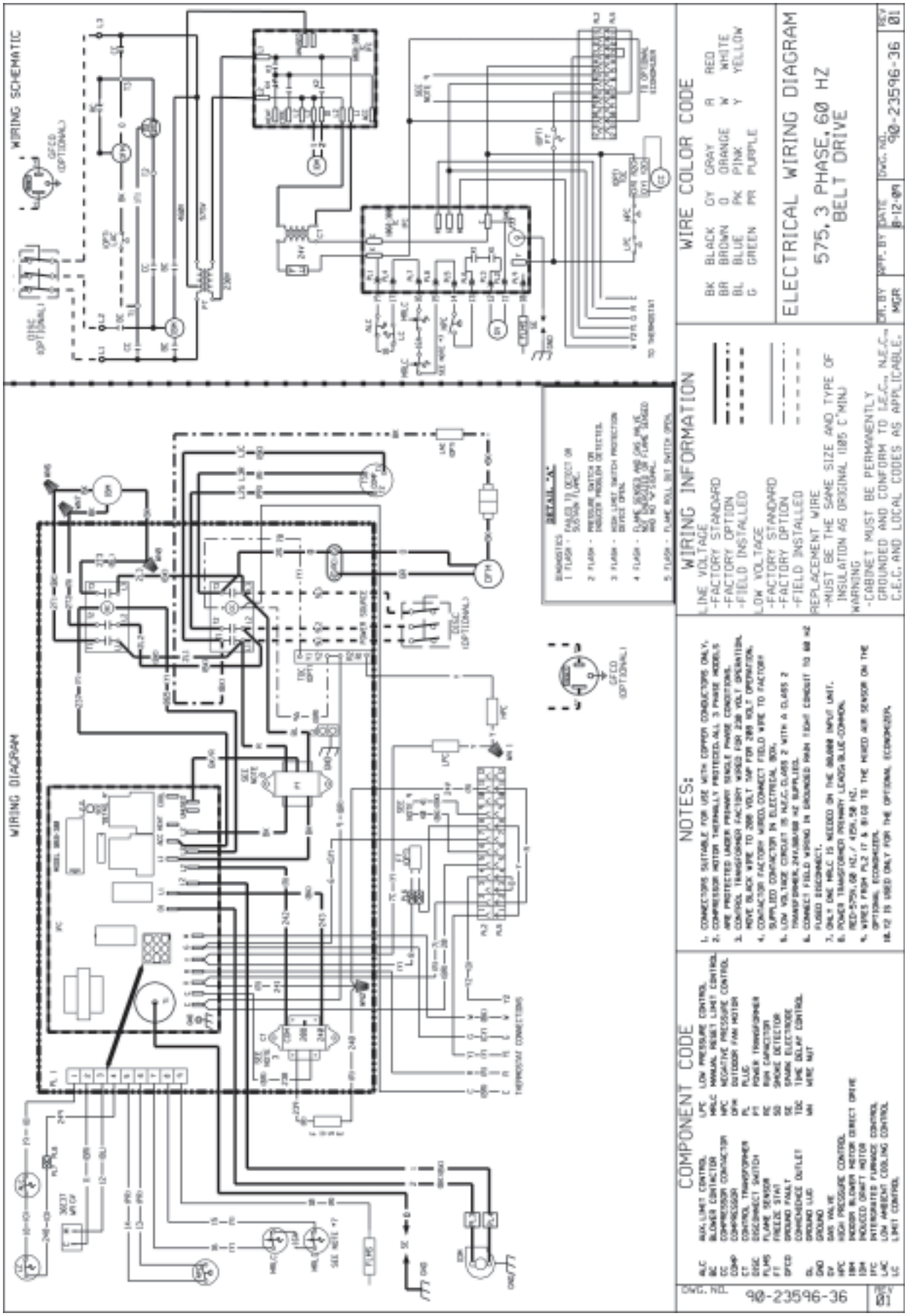
ENGINEERING DATA

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


WIRING SCHEMATIC
WIRING DIAGRAM
ELECTRICAL WIRING DIAGRAM
460 3 PHASE, 60 HZ
380/415 3 PHASE, 50 HZ
BELT DRIVE
WIRE COLOR CODE
BK BLACK
BR BROWN
BL BLUE
G GREEN
GY GRAY
O ORANGE
PR PURPLE
R RED
W WHITE
Y YELLOW
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.
DR. BY MGR
APP. BY
DATE 8-6-09
DWG. NO. 90-23596-32
REV 04
DETAIL "A"
DIAGNOSTICS
1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME.
2 FLASH - PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
3 FLASH - HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4 FLASH - FLAME SENSED AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO "W" SIGNAL.
5 FLASH - FLAME ROLL OUT SWITCH OPEN.
NOTES:
1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
4. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V, 50/60 HZ SUPPLIED.
5. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
6. ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
7. WIRES FROM PL2 16 & 9:00 TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
8. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
COMPONENT CODE
ALC AUX.LIMIT CONTROL
BC BLOWER CONTACTOR
CC COMPRESSOR CONTACTOR
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 DIRECT DRIVE
IDM INDUCED DRAFT MOTOR
IDR INDUCED DRAFT RELAY
IFC INTERGRATED FURNACE CONTROL
LAC LOW AMBIENT COOLING CONTROL
LC LIMIT CONTROL
LPC LOW PRESSURE CONTROL
MRLC MANUAL RESET LIMIT CONTROL
NPC NEGATIVE PRESSURE CONTROL
OFM OUTDOOR FAN MOTOR
PL PLUG
PT POWER TRANSFORMER
RC RUN CAPACITOR
SD SMOKE DETECTOR
SE SPARK ELECTRODE
TDC TIME DELAY CONTROL
WN WIRE NUT
IDR INDUCED DRAFT RELAY
THERMOSTAT CONNECTIONS
TO THERMOSTAT
TO OPTIONAL ECONOMIZER
POWER SOURCE
DISC (OPTIONAL)
GFCO (OPTIONAL)
SEE NOTE *6
SEE NOTE *7
SEE NOTE 9
SEE NOTE 7
SEE DETAIL "A"
98-23596-18


ELECTRICAL WIRING DIAGRAM
208 / 230, 3 PHASE, 60 HZ
200/220, 3 PHASE, 50 HZ
BELT DRIVE
DWG. NO. 90-23596-34
REV 02
DR. BY MGR
APP. BY
DATE 8-19-09
WIRE COLOR CODE
BK BLACK
BR BROWN
BL BLUE
G GREEN
GY GRAY
O ORANGE
PR PURPLE
R RED
W WHITE
Y YELLOW
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.
NOTES:
1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. CONTROL TRANSFORMER FACTORY WIRED FOR 230 VOLT OPERATION. MOVE BLACK WIRE TO 208 VOLT TAP FOR 208 VOLT OPERATION.
4. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
7. ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
8. MOTOR FACTORY WIRED FOR CORRECT SPEED.
9. WIRES FROM PL2 16 & 9:00 TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
COMPONENT CODE
ALC AUX. LIMIT CONTROL
BC BLOWER CONTACTOR
CC COMPRESSOR CONTACTOR
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 DIRECT DRIVE
IDM INDUCED DRAFT MOTOR
IFC INTERGRATED FURNACE CONTROL
LAC LOW AMBIENT COOLING CONTROL
LC LIMIT CONTROL
LPC LOW PRESSURE CONTROL
MRLC MANUAL RESET LIMIT CONTROL
NPC NEGATIVE PRESSURE CONTROL
OFM OUTDOOR FAN MOTOR
PL PLUG
RC RUN CAPACITOR
SD SMOKE DETECTOR
SE SPARK ELECTRODE
TDC TIME DELAY CONTROL
WN WIRE NUT
DETAIL "A"
DIAGNOSTICS
1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME.
2 FLASH - PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
3 FLASH - HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4 FLASH - FLAME SENSED AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO "W" SIGNAL.
5 FLASH - FLAME ROLL OUT SWITCH OPEN.
WIRING SCHEMATIC
WIRING DIAGRAM
THERMOSTAT CONNECTIONS
POWER SOURCE
TO THERMOSTAT
TO OPTIONAL ECONOMIZER
DISC (OPTIONAL)
GFCO (OPTIONAL)
SEE NOTE 9
SEE NOTE #7
MODEL 1868-300
IFC
L.E.D. SEE "DETAIL A"


WIRING SCHEMATIC
WIRING DIAGRAM
ELECTRICAL WIRING DIAGRAM
575, 3 PHASE, 60 HZ
BELT DRIVE
WIRE COLOR CODE
BK BLACK GY GRAY R RED
BR BROWN O ORANGE W WHITE
BL BLUE PK PINK Y YELLOW
G GREEN PR PURPLE
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 N.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.
NOTES:
COMPONENT CODE
DWG. NO. 90-23596-36
REV 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.

Heat Exchanger
Factory Standard .....Ten (10) Years

Stainless Steel/1-Phase & 3-Phase Models/
Commercial Application .....Twenty (20) Years
Stainless Steel/1-Phase Models/
Residential Application .....Limited Lifetime
Compressor .....Five (5) Years

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

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 Heating, Cooling and Water Heating

P.O. Box 17010, Fort Smith, AR 72917

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

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Supersedes Form No. R11-845 Rev. 3