PACKAGE GAS ELECTRIC UNITS

FORM NO. R22-837 REV. 4
Supersedes Form No. R22-837 Rev. 3

RKNA- SUPER HIGH EFFICIENCY SERIES
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Accredited by the RvA
ABS Quality Evaluations, Inc. Management System Certification
ANAB ACCREDITED
ISO 9001:2000
Certificate Number: 30164

c UL us LISTED

member gama
SINGLE PHASE
MODELS ONLY

ARI PERFORMANCE CERTIFIED

TABLE OF CONTENTS

ENGINEERING FEATURES

RKNA- Series Package Gas Electric Units

1. All models feature Scroll® compressors offering maximum reliability, efficiency, and quiet operation.
2. Aluminized steel heat exchanger with in-shot burners helps eliminate corrosion. Stainless steel heat exchangers optional.
3. Integrated blower/burner control board with built-in diagnostic capability permits on-site trouble shooting.
4. One-piece top over the indoor section with drip lip, drawn painted base pan, and 1" [25.4 mm] raised flanges for supply/return air connections provides superior water management.
5. Convertible horizontal and vertical airflow design allows maximum field flexibility and minimizes inventory requirements.
6. Standard full perimeter forkable 14 gauge baserail with lifting holes for easier maneuvering and installations.
7. Factory installed one-inch [25.4 mm] throw away filter with provisions for two-inch [50.8 mm] filter.
8. Direct or belt drive options to accommodate a wide range of design conditions as high as 1.5 inches [.37 kPa] of external static pressure.
9. Easily removable filter, blower, gas heat, and compressor/control access panels permits prompt service.
10. Number and color coded wiring helps facilitate service and maintenance.
11. Common cabinet and components allows for installation flexibility and fewer parts to inventory.
12. Standard freezestat control offers evaporator coil freeze protection.
13. Factory or field installed high and low pressure controls.
14. Externally mounted refrigerant gauge ports for easy service diagnostics.
15. Side and base electric power and gas connection entry helps minimize roof penetrations.
16. Quick assembly common roof curbs helps save field labor and maximize size flexibility.
17. Easy to install, plug-in, slip-in, 100% fully modulating economizers.
18. Quality powder paint finish offers long lasting protection against extreme weather conditions and is able to withstand 1000 HR salt spray test.

[ ] Designates Metric Conversions

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

Evaporator Coil/Filter Access

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

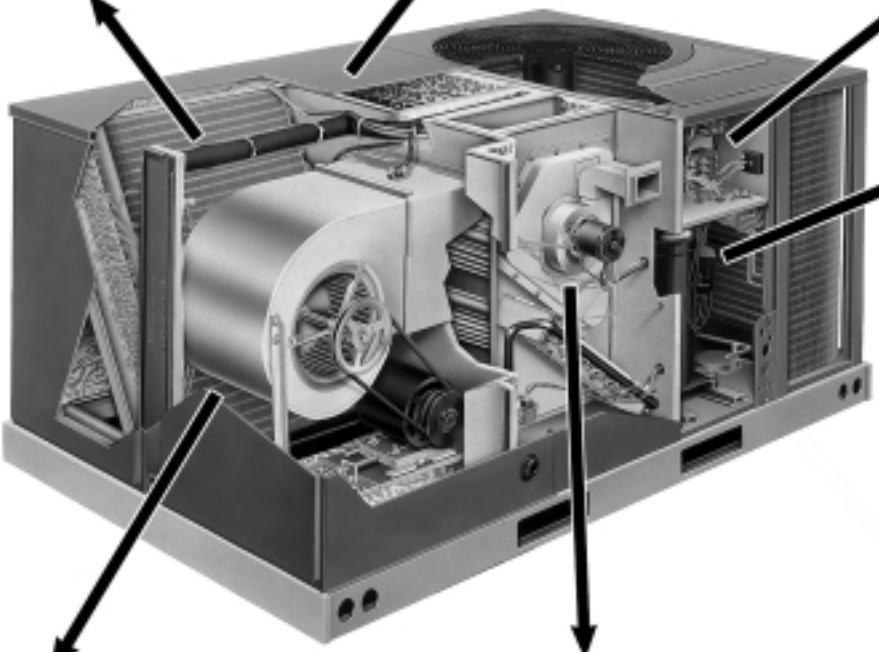
Tubular Heat Exchanger

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

- Non-corrosive plastic condensate pan

Control Box Access

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



Blower Access

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

Heating Compartment Access

[ ] Designates Metric Conversions

SELECTION PROCEDURE EXAMPLE—RKNA- SERIES

1. **Determine cooling and heating requirements at design conditions.**
   Example:
   Total cooling capacity .....43,600 BTUH [12.78 kW]
   Sensible cooling capacity .....34,000 BTUH [9.96 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 .....1600 CFM [755 L/s]
   External static pressure.....1.1 in wg
   Required efficiency .....13 SEER
2. **Select unit to meet cooling requirements.**
   Since total cooling is within the range of 4 ton [14.07 kW] unit and requires 13 SEER efficiency level, enter cooling performance from the RKNA-A048 at 95°F [35°C] outdoor temperature, 63°F [17°C] wb entering indoor air, and 1550 CFM [732 L/s]:
   Total capacity .....47,300 BTUH [732 kW]
   Power input .....3.5 kW
   And also, at 76°F [24°C] db indoor entering air, and using the formula at the bottom of the table:
   Sensible capacity .....41,708 BTUH [12.22 kW]
3. **Select heating capacity of the unit.**
   In the general data tables, note that the heating capacity of the 4 ton [14.07 kW] model with the 135,000 input heater can deliver 106,500 BTUH [31.21 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 1600 CFM [755 L/s] and 1.1 in wg ESP:
   RPM 1195
   Watts.....755
   Drive .....M
5. **Calculate indoor blower BTUH heat effect.**
   BTUH = Watts x 3.413 = 2577
6. **Calculate net cooling capacities.**
   Net total cooling = 47,300 – 2577 = 44,723 BTUH [13.10 kW]
   Net sensible cooling = 41,708 – 2577 = 39,131 BTUH [11.47 kW]

[ ] Designates Metric Conversions

MODEL IDENTIFICATION—RKNA- SERIES

R K N A — A 036 J K 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)
  - 08 = 80,000 [23.5]
  - 10 = 100,000 [29.3]
  - 12 = 120,000 [35.2]
  - 13 = 135,000 [39.6]
- Drive Package
  - K = Direct Drive
  - 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
  - J = 208-230V, 1 PH, 60 Hz
- Cooling Capacity (BTUH) [kW]
  - 036 = 36,000 [10.55]
  - 042 = 42,000 [12.31]
  - 048 = 48,000 [14.07]
  - 060 = 60,000 [17.58]
- Future Technical Variations
- Design Series
  - A =1st Design
- Efficiency Designation
  - N = Super High Efficiency (13 SEER)
- Product Classification
  - K = Rooftop—Commercial
- Tradebrand
  - R = Ruud Package Gas Electric

[ ] Designates Metric Conversions

FACTORY INSTALLED OPTION CODES FOR RKNA (3-5 TON) [10.6-17.6 kW] (A036, A042, A048, A060)

Option Code	High and Low Pressure	Hail Guard	Low Ambient Time Delay	Unwired Convenience Outlet Unfused Service Disconnect	Stainless Steel Heat Exchanger	Side Flow	Reduced Height Baserails
AA	No Options						
AC	x						
AD		x					
AE			x				
AH				x			
AJ					x		
AK						x	
AL							x
BB	x	x					
BE	x		x				
BF		x		x			
BG		x			x		
BH			x	x			
BS		x				x	
BU	x					x	
BV					x	x	
BX		x					x
CA	x	x			x		
CB	x	x	x				
CE	x	x				x	
CP	x	x					x
DA	x	x	x	x			
DB	x	x	x		x		
EB	x	x	x	x	x		

Economizer Codes
A = No Economizer
B = Economizer with Single Enthalpy
Example: RKNA-A060JK13E**XX**X *(where **XX** is factory installed option)*
Example: No Options
RKNA-A060JK13E
Example: No option with factory installed economizer
RKNA-A060JK13EAAB
Example: Options with stainless steel heat exchanger and no factory installed economizer
RKNA-A060JK13EAJA
Example: Options same as above with factory installed economizer
RKNA-A060JK13EAJB

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A036CK08E	A036CK12E	A036CL08E	A036CL12E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]
EER/SEER[2]	11.7/13	11.7/13	11.7/13	11.7/13
Nominal CFM/ARI Rated CFM [L/s]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]
ARI Net Cooling Capacity Btu [kW]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]
Net Sensible Capacity Btu [kW]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]
Net Latent Capacity Btu [kW]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]
Net System Power kW	3.08	3.08	3.08	3.08
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	120,000 [35.16]	80,000 [23.44]	120,000 [35.16]
Heating Output Btu [kW]	64,800 [18.99]	97,200 [28.48]	64,800 [18.99]	97,200 [28.48]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	6	4	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)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1725	1725
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	93 [2637]	93 [2637]	93 [2637]	93 [2637]
Weights				
Net Weight lbs. [kg]	543 [246]	543 [246]	543 [246]	543 [246]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	550 [249]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A036CM08E	A036CM12E	A036DK08E	A036DK12E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]
EER/SEER[2]	11.7/13	11.7/13	11.7/13	11.7/13
Nominal CFM/ARI Rated CFM [L/s]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]
ARI Net Cooling Capacity Btu [kW]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]
Net Sensible Capacity Btu [kW]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]
Net Latent Capacity Btu [kW]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]
Net System Power kW	3.08	3.08	3.08	3.08
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	120,000 [35.16]	80,000 [23.44]	120,000 [35.16]
Heating Output Btu [kW]	64,800 [18.99]	97,200 [28.48]	64,800 [18.99]	97,200 [28.48]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	6	4	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)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1725	1725	1075	1075
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	93 [2637]	93 [2637]	93 [2637]	93 [2637]
Weights				
Net Weight lbs. [kg]	543 [246]	543 [246]	543 [246]	543 [246]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	550 [249]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A036DL08E	A036DL12E	A036DM08E	A036DM12E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]
EER/SEER[2]	11.7/13	11.7/13	11.7/13	11.7/13
Nominal CFM/ARI Rated CFM [L/s]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]
ARI Net Cooling Capacity Btu [kW]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]
Net Sensible Capacity Btu [kW]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]
Net Latent Capacity Btu [kW]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]
Net System Power kW	3.08	3.08	3.08	3.08
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	120,000 [35.16]	80,000 [23.44]	120,000 [35.16]
Heating Output Btu [kW]	64,800 [18.99]	97,200 [28.48]	64,800 [18.99]	97,200 [28.48]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	6	4	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)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	93 [2637]	93 [2637]	93 [2637]	93 [2637]
Weights				
Net Weight lbs. [kg]	543 [246]	543 [246]	543 [246]	543 [246]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	550 [249]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A036JK08E	A036JK08X	A036JK12E	A036JK12X
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]	37,400 [10.96]
EER/SEER[2]	11.7/13	11.7/13	11.7/13	11.7/13
Nominal CFM/ARI Rated CFM [L/s]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]
ARI Net Cooling Capacity Btu [kW]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]
Net Sensible Capacity Btu [kW]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]	26,400 [7.74]
Net Latent Capacity Btu [kW]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]	9,600 [2.81]
Net System Power kW	3.08	3.08	3.08	3.08
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	80,000 [23.44]	120,000 [35.16]	120,000 [35.16]
Heating Output Btu [kW]	62,500 [18.31]	62,500 [18.31]	94,500 [27.69]	94,500 [27.69]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	4	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/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1075	1075
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	93 [2637]	93 [2637]	93 [2637]	93 [2637]
Weights				
Net Weight lbs. [kg]	543 [246]	543 [246]	543 [246]	543 [246]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	550 [249]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A042CK08E	A042CK12E	A042CL08E	A042CL12E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]
EER/SEER[2]	11.45/13	11.45/13	11.45/13	11.45/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]
ARI Net Cooling Capacity Btu [kW]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]
Net Sensible Capacity Btu [kW]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]
Net Latent Capacity Btu [kW]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]
Net System Power kW	3.59	3.59	3.59	3.59
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	120,000 [35.16]	80,000 [23.44]	120,000 [35.16]
Heating Output Btu [kW]	64,800 [18.99]	97,200 [28.48]	64,800 [18.99]	97,200 [28.48]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	6	4	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)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1725	1725
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	117 [3317]	117 [3317]	117 [3317]	117 [3317]
Weights				
Net Weight lbs. [kg]	570 [259]	579 [263]	570 [259]	579 [263]
Ship Weight lbs. [kg]	577 [262]	586 [266]	577 [262]	586 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A042CM08E	A042CM12E	A042DK08E	A042DK12E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]
EER/SEER[2]	11.45/13	11.45/13	11.45/13	11.45/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]
ARI Net Cooling Capacity Btu [kW]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]
Net Sensible Capacity Btu [kW]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]
Net Latent Capacity Btu [kW]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]
Net System Power kW	3.59	3.59	3.59	3.59
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	120,000 [35.16]	80,000 [23.44]	120,000 [35.16]
Heating Output Btu [kW]	64,800 [18.99]	97,200 [28.48]	64,800 [18.99]	97,200 [28.48]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	6	4	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)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1725	1725	1075	1075
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	117 [3317]	117 [3317]	117 [3317]	117 [3317]
Weights				
Net Weight lbs. [kg]	570 [259]	570 [259]	570 [259]	579 [263]
Ship Weight lbs. [kg]	577 [262]	577 [262]	577 [262]	586 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A042DL08E	A042DL12E	A042DM08E	A042DM12E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]
EER/SEER[2]	11.45/13	11.45/13	11.45/13	11.45/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]
ARI Net Cooling Capacity Btu [kW]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]
Net Sensible Capacity Btu [kW]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]
Net Latent Capacity Btu [kW]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]
Net System Power kW	3.59	3.59	3.59	3.59
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	120,000 [35.16]	80,000 [23.44]	120,000 [35.16]
Heating Output Btu [kW]	64,800 [18.99]	97,200 [28.48]	64,800 [18.99]	97,200 [28.48]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	6	4	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)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	117 [3317]	117 [3317]	117 [3317]	117 [3317]
Weights				
Net Weight lbs. [kg]	570 [259]	579 [263]	570 [259]	570 [259]
Ship Weight lbs. [kg]	577 [262]	586 [266]	577 [262]	577 [262]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A042JK08E	A042JK08X	A042JK12E	A042JK12X
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]
EER/SEER[2]	11.45/13	11.45/13	11.45/13	11.45/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]	1400/1450 [661/684]
ARI Net Cooling Capacity Btu [kW]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]	41,000 [12.01]
Net Sensible Capacity Btu [kW]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]	30,000 [8.79]
Net Latent Capacity Btu [kW]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]	11,000 [3.22]
Net System Power kW	3.59	3.59	3.59	3.59
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	80,000 [23.44]	120,000 [35.16]	120,000 [35.16]
Heating Output Btu [kW]	62,500 [18.31]	62,500 [18.31]	94,500 [27.69]	94,500 [27.69]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	4	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/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)	78	78	78	78
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]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 22 [9]	1.53 / 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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]	3 / 13 [5]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1725	1075
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	117 [3317]	117 [3317]	117 [3317]	117 [3317]
Weights				
Net Weight lbs. [kg]	570 [259]	570 [259]	579 [263]	579 [263]
Ship Weight lbs. [kg]	577 [262]	577 [262]	586 [266]	586 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A048CK08E	A048CK10E	A048CK13E	A048CL08E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
EER/SEER[2]	11.4/13.1	11.4/13.1	11.4/13.1	11.4/13.1
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]
ARI Net Cooling Capacity Btu [kW]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]
Net Sensible Capacity Btu [kW]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
Net Latent Capacity Btu [kW]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]
Net System Power kW	4.15	4.15	4.15	4.15
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	100,000 [29.3]	135,000 [39.56]	80,000 [23.44]
Heating Output Btu [kW]	64,800 [18.99]	81,000 [23.73]	109,400 [32.05]	64,800 [18.99]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	40-70 [22.2/38.9]	50-80 [27.8/44.4]	30-60 [16.7/33.3]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	5	6	4
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)	78	78	78	78
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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Direct/3	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1075	1725
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	167 [4734]	167 [4734]	167 [4734]	167 [4734]
Weights				
Net Weight lbs. [kg]	580 [263]	580 [263]	585 [265]	580 [263]
Ship Weight lbs. [kg]	587 [266]	587 [266]	592 [269]	587 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A048CL10E	A048CL13E	A048CM08E	A048CM10E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
EER/SEER[2]	11.4/13.1	11.4/13.1	11.4/13.1	11.4/13.1
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]
ARI Net Cooling Capacity Btu [kW]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]
Net Sensible Capacity Btu [kW]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
Net Latent Capacity Btu [kW]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]
Net System Power kW	4.15	4.15	4.15	4.15
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	100,000 [29.3]	135,000 [39.56]	80,000 [23.44]	100,000 [29.3]
Heating Output Btu [kW]	81,000 [23.73]	109,400 [32.05]	64,800 [18.99]	81,000 [23.73]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	30-60 [16.7/33.3]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	5	6	4	5
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)	78	78	78	78
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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	3/4	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	48	48	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	167 [4734]	167 [4734]	167 [4734]	167 [4734]
Weights				
Net Weight lbs. [kg]	580 [263]	585 [265]	580 [263]	580 [263]
Ship Weight lbs. [kg]	587 [266]	592 [269]	587 [266]	587 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A048CM13E	A048DK08E	A048DK10E	A048DK13E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
EER/SEER[2]	11.4/13.1	11.4/13.1	11.4/13.1	11.4/13.1
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]
ARI Net Cooling Capacity Btu [kW]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]
Net Sensible Capacity Btu [kW]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
Net Latent Capacity Btu [kW]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]
Net System Power kW	4.15	4.15	4.15	4.15
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	135,000 [39.56]	80,000 [23.44]	100,000 [29.3]	135,000 [39.56]
Heating Output Btu [kW]	109,400 [32.05]	64,800 [18.99]	81,000 [23.73]	109,400 [32.05]
Temperature Rise Range °F [°C]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	30-60 [16.7/33.3]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	6	4	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)	78	78	78	78
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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	3/4	1/2	1/2	1/2
Motor RPM	1725	1075	1075	1075
Motor Frame Size	56	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	167 [4734]	167 [4734]	167 [4734]	167 [4734]
Weights				
Net Weight lbs. [kg]	580 [263]	580 [263]	580 [263]	585 [265]
Ship Weight lbs. [kg]	587 [266]	587 [266]	587 [266]	592 [269]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A048DL08E	A048DL10E	A048DL13E	A048DM08E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
EER/SEER[2]	11.4/13.1	11.4/13.1	11.4/13.1	11.4/13.1
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]
ARI Net Cooling Capacity Btu [kW]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]
Net Sensible Capacity Btu [kW]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
Net Latent Capacity Btu [kW]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]
Net System Power kW	4.15	4.15	4.15	4.15
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	80,000 [23.44]	100,000 [29.3]	135,000 [39.56]	80,000 [23.44]
Heating Output Btu [kW]	64,800 [18.99]	81,000 [23.73]	109,400 [32.05]	64,800 [18.99]
Temperature Rise Range ˚F [˚C]	30-60 [16.7/33.3]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	4	5	6	4
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)	78	78	78	78
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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	3/4
Motor RPM	1725	1725	1725	1725
Motor Frame Size	48	48	48	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	167 [4734]	167 [4734]	167 [4734]	167 [4734]
Weights				
Net Weight lbs. [kg]	580 [263]	580 [263]	585 [265]	580 [263]
Ship Weight lbs. [kg]	587 [266]	587 [266]	592 [269]	587 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A048DM10E	A048DM13E	A048JK08E	A048JK08X
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
EER/SEER[2]	11.4/13.1	11.4/13.1	11.4/13.1	11.4/13.1
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]
ARI Net Cooling Capacity Btu [kW]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]
Net Sensible Capacity Btu [kW]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
Net Latent Capacity Btu [kW]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]
Net System Power kW	4.15	4.15	4.15	4.15
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	100,000 [29.3]	135,000 [39.56]	80,000 [23.44]	80,000 [23.44]
Heating Output Btu [kW]	81,000 [23.73]	109,400 [32.05]	62,500 [18.31]	62,500 [18.31]
Temperature Rise Range °F [°C]	30-60 [16.7/33.3]	50-80 [27.8/44.4]	30-60 [16.7/33.3]	30-60 [16.7/33.3]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	5	6	4	4
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)	78	78	78	78
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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	3/4	3/4	1/2	1/2
Motor RPM	1725	1725	1075	1075
Motor Frame Size	56	56	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	167 [4734]	167 [4734]	167 [4734]	167 [4734]
Weights				
Net Weight lbs. [kg]	580 [263]	580 [263]	580 [263]	580 [263]
Ship Weight lbs. [kg]	587 [266]	587 [266]	587 [266]	587 [266]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A048JK10E	A048JK10X	A048JK13E	A048JK13X
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]	49,000 [14.36]
EER/SEER[2]	11.4/13.1	11.4/13.1	11.4/13.1	11.4/13.1
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]	1600/1550 [755/731]
ARI Net Cooling Capacity Btu [kW]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]	47,000 [13.77]
Net Sensible Capacity Btu [kW]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]	33,600 [9.84]
Net Latent Capacity Btu [kW]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]	13,400 [3.93]
Net System Power kW	4.15	4.15	4.15	4.15
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	100,000 [29.3]	100,000 [29.3]	135,000 [39.56]	135,000 [39.56]
Heating Output Btu [kW]	78,500 [23]	78,500 [23]	106,500 [31.2]	106,500 [31.2]
Temperature Rise Range ˚F [˚C]	40-70 [22.2/38.9]	40-70 [22.2/38.9]	50-80 [27.8/44.4]	50-80 [27.8/44.4]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
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/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)	78	78	78	78
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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1075	1075
Motor Frame Size	48	48	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	167 [4734]	167 [4734]	167 [4734]	167 [4734]
Weights				
Net Weight lbs. [kg]	580 [263]	580 [263]	585 [265]	585 [265]
Ship Weight lbs. [kg]	587 [266]	587 [266]	592 [269]	592 [269]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A060CK10E	A060CK13E	A060CL10E	A060CL13E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER[2]	11.6/13	11.6/13	11.6/13	11.6/13
Nominal CFM/ARI Rated CFM [L/s]	2000/1900 [897/897]	2000/1900 [897/897]	2000/1900 [897/897]	2000/1900 [897/897]
ARI Net Cooling Capacity Btu [kW]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]
Net Latent Capacity Btu [kW]	16,000 [4.69]	16,000 [4.69]	16,000 [4.69]	16,000 [4.69]
Net System Power kW	5	5	5	5
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	100,000 [29.3]	135,000 [39.56]	100,000 [29.3]	135,000 [39.56]
Heating Output Btu [kW]	81,000 [23.73]	109,400 [32.05]	81,000 [23.73]	109,400 [32.05]
Temperature Rise Range ˚F [˚C]	25-55 [13.9/30.6]	40-70 [22.2/38.9]	25-55 [13.9/30.6]	40-70 [22.2/38.9]
AFUE %	80	80	80	80
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)	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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1	1	3/4	3/4
Motor RPM	1075	1075	1725	1725
Motor Frame Size	48	48	56	56
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	160 [4536]	160 [4536]	160 [4536]	160 [4536]
Weights				
Net Weight lbs. [kg]	590 [268]	597 [271]	590 [268]	597 [271]
Ship Weight lbs. [kg]	597 [271]	604 [274]	597 [271]	604 [274]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A060CM10E	A060CM13E	A060DL10E	A060DL13E
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER[2]	11.6/13	11.6/13	11.6/13	11.6/13
Nominal CFM/ARI Rated CFM [L/s]	2000/1900 [897/897]	2000/1900 [897/897]	2000/1900 [897/897]	2000/1900 [897/897]
ARI Net Cooling Capacity Btu [kW]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]
Net Latent Capacity Btu [kW]	16,000 [4.69]	16,000 [4.69]	16,000 [4.69]	16,000 [4.69]
Net System Power kW	5	5	5	5
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	100,000 [29.3]	135,000 [39.56]	100,000 [29.3]	135,000 [39.56]
Heating Output Btu [kW]	81,000 [23.73]	109,400 [32.05]	81,000 [23.73]	109,400 [32.05]
Temperature Rise Range ˚F [˚C]	25-55 [13.9/30.6]	40-70 [22.2/38.9]	25-55 [13.9/30.6]	40-70 [22.2/38.9]
AFUE %	80	80	80	80
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)	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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	1	1	3/4	3/4
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]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635] (1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	160 [4536]	160 [4536]	160 [4536]	160 [4536]
Weights				
Net Weight lbs. [kg]	590 [268]	590 [268]	590 [268]	597 [271]
Ship Weight lbs. [kg]	597 [271]	597 [271]	597 [271]	604 [274]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A060DM10E	A060DM13E	A060JK10E	A060JK10X
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER/SEER[2]	11.6/13	11.6/13	11.6/13	11.6/13
Nominal CFM/ARI Rated CFM [L/s]	2000/1900 [897/897]	2000/1900 [897/897]	2000/1900 [897/897]	2000/1900 [897/897]
ARI Net Cooling Capacity Btu [kW]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]
Net Latent Capacity Btu [kW]	16,000 [4.69]	16,000 [4.69]	16,000 [4.69]	16,000 [4.69]
Net System Power kW	5	5	5	5
Heating Performance (Package Gas/Electric)[3]				
Heating Input Btu [kW]	100,000 [29.3]	135,000 [39.56]	100,000 [29.3]	100,000 [29.3]
Heating Output Btu [kW]	81,000 [23.73]	109,400 [32.05]	78,500 [23]	78,500 [23]
Temperature Rise Range ˚F [˚C]	25-55 [13.9/30.6]	40-70 [22.2/38.9]	25-55 [13.9/30.6]	25-55 [13.9/30.6]
AFUE %	80	80	80	80
Steady State Efficiency (%)	81	81	81	81
No. Burners	5	6	5	5
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)	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]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	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
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]	3930 [1855]	3930 [1855]	3930 [1855]	3930 [1855]
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]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1	1	1	1
Motor RPM	1725	1725	1075	1075
Motor Frame Size	56	56	48	48
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	160 [4536]	160 [4536]	160 [4536]	160 [4536]
Weights				
Net Weight lbs. [kg]	590 [268]	590 [268]	590 [268]	590 [268]
Ship Weight lbs. [kg]	597 [271]	597 [271]	597 [271]	597 [271]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 3-5 TONS [10.6-17.6 kW]

Model RKNA- Series	A060JK13E	A060JK13X
Cooling Performance[1]		
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]
EER/SEER[2]	11.6/13	11.6/13
Nominal CFM/ARI Rated CFM [L/s]	2000/1900 [897/897]	2000/1900 [897/897]
ARI Net Cooling Capacity Btu [kW]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	42,000 [12.31]	42,000 [12.31]
Net Latent Capacity Btu [kW]	16,000 [4.69]	16,000 [4.69]
Net System Power kW	5	5
Heating Performance (Package Gas/Electric)[3]		
Heating Input Btu [kW]	135,000 [39.56]	135,000 [39.56]
Heating Output Btu [kW]	106,500 [31.2]	106,500 [31.2]
Temperature Rise Range ˚F [˚C]	40-70 [22.2/38.9]	40-70 [22.2/38.9]
AFUE %	80	80
Steady State Efficiency (%)	81	81
No. Burners	6	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)	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]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
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]	3930 [1855]	3930 [1855]
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]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3
No. Motors	1	1
Motor HP	1	1
Motor RPM	1075	1075
Motor Frame Size	48	48
Filter—Type	Disposable	Disposable
Furnished	Yes	Yes
(No.) Size Recommended in. [mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	160 [4536]	160 [4536]
Weights		
Net Weight lbs. [kg]	597 [271]	597 [271]
Ship Weight lbs. [kg]	604 [274]	604 [274]

See Page 26 for Notes.

[ ] Designates Metric Conversions

NOTES:

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

GROSS SYSTEMS PERFORMANCE DATA—A036

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]			1500 [707.9]	1200 [566.3]	900 [424.8]	1500 [707.9]	1200 [566.3]	900 [424.8]	1500 [707.9]	1200 [566.3]	900 [424.8]	
DR ①			.16	.12	.06	.16	.12	.06	.16	.12	.06	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	45.5 [13.33]	43.5 [12.75]	41.6 [12.19]	42.7 [12.51]	40.9 [11.99]	39.0 [11.43]	40.3 [11.81]	38.6 [11.31]	36.8 [10.79]	
		Sens BTUH [kW]	27.9 [8.18]	24.9 [7.30]	22.0 [6.45]	33.1 [9.70]	29.7 [8.70]	26.2 [7.68]	37.6 [11.02]	33.7 [9.88]	29.8 [8.73]	
		Power	2.2	2.2	2.1	2.2	2.1	2.1	2.2	2.1	2.1	
	80 [26.7]	Total BTUH [kW]	44.6 [13.07]	42.6 [12.48]	40.7 [11.93]	41.8 [12.25]	40.0 [11.72]	38.1 [11.17]	39.4 [11.55]	37.7 [11.05]	35.9 [10.52]	
		Sens BTUH [kW]	27.2 [7.97]	24.4 [7.15]	21.5 [6.30]	32.5 [9.52]	29.1 [8.53]	25.7 [7.53]	37.0 [10.84]	33.2 [9.73]	29.3 [8.59]	
		Power	2.3	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.2	
	85 [29.4]	Total BTUH [kW]	43.7 [12.81]	41.8 [12.25]	39.9 [11.69]	40.9 [11.99]	39.1 [11.46]	37.4 [10.96]	38.5 [11.28]	36.8 [10.79]	35.1 [10.29]	
		Sens BTUH [kW]	26.7 [7.83]	23.9 [7.00]	21.1 [6.18]	32.0 [9.38]	28.7 [8.41]	25.3 [7.41]	36.5 [10.70]	32.7 [9.58]	28.9 [8.47]	
		Power	2.5	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.3	
	90 [32.2]	Total BTUH [kW]	42.9 [12.57]	41.0 [12.02]	39.1 [11.46]	40.1 [11.75]	38.3 [11.22]	36.6 [10.73]	37.6 [11.02]	36.0 [10.55]	34.4 [10.08]	
		Sens BTUH [kW]	26.3 [7.71]	23.6 [6.92]	20.8 [6.10]	31.6 [9.26]	28.3 [8.29]	25.0 [7.33]	36.1 [10.58]	32.3 [9.47]	28.5 [8.35]	
		Power	2.6	2.5	2.5	2.6	2.5	2.5	2.6	2.5	2.5	
	95 [35]	Total BTUH [kW]	42.0 [12.31]	40.2 [11.78]	38.3 [11.22]	39.2 [11.49]	37.5 [10.99]	35.8 [10.49]	36.8 [10.79]	35.2 [10.32]	33.6 [9.85]	
		Sens BTUH [kW]	25.9 [7.59]	23.2 [6.80]	20.5 [6.01]	31.1 [9.11]	27.9 [8.18]	24.6 [7.21]	35.7 [10.46]	31.9 [9.35]	28.2 [8.26]	
		Power	2.7	2.6	2.6	2.7	2.6	2.6	2.7	2.6	2.6	
	100 [37.8]	Total BTUH [kW]	41.1 [12.05]	39.3 [11.52]	37.5 [10.99]	38.3 [11.22]	36.6 [10.73]	34.9 [10.23]	35.8 [10.49]	34.3 [10.05]	32.7 [9.58]	
		Sens BTUH [kW]	25.4 [7.44]	22.8 [6.68]	20.1 [5.89]	30.7 [9.00]	27.5 [8.06]	24.3 [7.12]	35.2 [10.32]	31.5 [9.23]	27.8 [8.15]	
		Power	2.8	2.8	2.7	2.8	2.8	2.7	2.8	2.8	2.7	
	105 [40.6]	Total BTUH [kW]	40.0 [11.72]	38.3 [11.22]	36.5 [10.70]	37.2 [10.90]	35.6 [10.43]	34.0 [9.96]	34.8 [10.20]	33.3 [9.76]	31.8 [9.32]	
		Sens BTUH [kW]	24.9 [7.30]	22.3 [6.54]	19.7 [5.77]	30.1 [8.82]	27.0 [7.91]	23.8 [6.98]	34.7 [10.17]	31.0 [9.09]	27.4 [8.03]	
		Power	3.0	2.9	2.8	3.0	2.9	2.8	2.9	2.9	2.8	
	110 [43.3]	Total BTUH [kW]	38.8 [11.37]	37.1 [10.87]	35.4 [10.37]	36.0 [10.55]	34.4 [10.08]	32.8 [9.61]	33.6 [9.85]	32.1 [9.41]	30.6 [8.97]	
		Sens BTUH [kW]	24.2 [7.09]	21.7 [6.36]	19.1 [5.60]	29.4 [8.62]	26.4 [7.74]	23.3 [6.83]	33.6 [9.85]	30.4 [8.91]	26.9 [7.88]	
		Power	3.1	3.0	3.0	3.1	3.0	3.0	3.1	3.0	2.9	
	115 [46.1]	Total BTUH [kW]	37.3 [10.93]	35.7 [10.46]	34.1 [9.99]	34.5 [10.11]	33.0 [9.67]	31.5 [9.23]	32.1 [9.41]	30.7 [9.00]	29.3 [8.59]	
		Sens BTUH [kW]	23.3 [6.83]	20.9 [6.13]	18.4 [5.39]	28.6 [8.38]	25.6 [7.50]	22.6 [6.62]	32.1 [9.41]	29.6 [8.67]	26.2 [7.68]	
		Power	3.2	3.1	3.1	3.2	3.1	3.1	3.2	3.1	3.1	

GROSS SYSTEMS PERFORMANCE DATA—A042

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]			1810 [854.2]	1450 [684.3]	1090 [514.4]	1810 [854.2]	1450 [684.3]	1090 [514.4]	1810 [854.2]	1450 [684.3]	1090 [514.4]	
DR ①			.23	.2	.15	.23	.2	.15	.23	.2	.15	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	53.2 [15.59]	50.9 [14.92]	48.6 [14.24]	49.3 [14.45]	47.1 [13.80]	45.0 [13.19]	46.0 [13.48]	44.0 [12.90]	42.0 [12.31]	
		Sens BTUH [kW]	32.4 [9.50]	29.1 [8.53]	25.7 [7.53]	38.2 [11.20]	34.2 [10.02]	30.2 [8.85]	43.6 [12.78]	39.0 [11.43]	34.5 [10.11]	
		Power	2.5	2.5	2.4	2.5	2.5	2.4	2.5	2.5	2.4	
	80 [26.7]	Total BTUH [kW]	51.9 [15.21]	49.6 [14.54]	47.4 [13.89]	48.0 [14.07]	45.9 [13.45]	43.8 [12.84]	44.7 [13.10]	42.7 [12.51]	40.8 [11.96]	
		Sens BTUH [kW]	31.9 [9.35]	28.6 [8.38]	25.2 [7.39]	37.7 [11.05]	33.8 [9.91]	29.8 [8.73]	43.0 [12.60]	38.5 [11.28]	34.0 [9.96]	
		Power	2.7	2.6	2.6	2.7	2.6	2.6	2.7	2.6	2.6	
	85 [29.4]	Total BTUH [kW]	50.8 [14.89]	48.6 [14.24]	46.4 [13.60]	46.8 [13.72]	44.8 [13.13]	42.8 [12.54]	43.6 [12.78]	41.7 [12.22]	39.8 [11.66]	
		Sens BTUH [kW]	31.3 [9.17]	28.0 [8.21]	24.7 [7.24]	37.1 [10.87]	33.2 [9.73]	29.3 [8.59]	42.4 [12.43]	38.0 [11.14]	33.5 [9.82]	
		Power	2.8	2.8	2.7	2.8	2.7	2.7	2.8	2.7	2.7	
	90 [32.2]	Total BTUH [kW]	49.8 [14.59]	47.6 [13.95]	45.4 [13.31]	45.8 [13.42]	43.8 [12.84]	41.9 [12.28]	42.6 [12.48]	40.7 [11.93]	38.9 [11.40]	
		Sens BTUH [kW]	30.6 [8.97]	27.4 [8.03]	24.2 [7.09]	36.4 [10.67]	32.6 [9.55]	28.8 [8.44]	41.7 [12.22]	37.4 [10.96]	33.0 [9.67]	
		Power	3.0	2.9	2.8	2.9	2.9	2.8	2.9	2.9	2.8	
	95 [35]	Total BTUH [kW]	48.8 [14.30]	46.7 [13.69]	44.6 [13.07]	44.9 [13.16]	42.9 [12.57]	41.0 [12.02]	41.6 [12.19]	39.8 [11.66]	38.0 [11.14]	
		Sens BTUH [kW]	29.9 [8.76]	26.7 [7.83]	23.6 [6.92]	35.7 [10.46]	31.9 [9.35]	28.2 [8.26]	41.0 [12.02]	36.7 [10.76]	32.4 [9.50]	
		Power	3.1	3.0	3.0	3.1	3.0	3.0	3.1	3.0	3.0	
	100 [37.8]	Total BTUH [kW]	47.8 [14.01]	45.7 [13.39]	43.7 [12.81]	43.9 [12.87]	42.0 [12.31]	40.1 [11.75]	40.6 [11.90]	38.9 [11.40]	37.1 [10.87]	
		Sens BTUH [kW]	29.2 [8.56]	26.1 [7.65]	23.1 [6.77]	35.0 [10.26]	31.3 [9.17]	27.7 [8.12]	40.3 [11.81]	36.1 [10.58]	31.9 [9.35]	
		Power	3.3	3.2	3.1	3.2	3.2	3.1	3.2	3.2	3.1	
	105 [40.6]	Total BTUH [kW]	46.8 [13.72]	44.7 [13.10]	42.7 [12.51]	42.8 [12.54]	41.0 [12.02]	39.1 [11.46]	39.6 [11.61]	37.8 [11.08]	36.1 [10.58]	
		Sens BTUH [kW]	28.6 [8.38]	25.6 [7.50]	22.6 [6.62]	34.4 [10.08]	30.8 [9.03]	27.2 [7.97]	39.6 [11.61]	35.6 [10.43]	31.4 [9.20]	
		Power	3.4	3.3	3.3	3.4	3.3	3.2	3.4	3.3	3.2	
	110 [43.3]	Total BTUH [kW]	45.5 [13.33]	43.5 [12.75]	41.6 [12.19]	41.6 [12.19]	39.8 [11.66]	38.0 [11.14]	38.3 [11.22]	36.7 [10.76]	35.0 [10.26]	
		Sens BTUH [kW]	28.1 [8.24]	25.1 [7.36]	22.2 [6.51]	33.9 [9.94]	30.3 [8.88]	26.8 [7.85]	38.3 [11.22]	35.1 [10.29]	31.0 [9.09]	
		Power	3.5	3.5	3.4	3.5	3.4	3.4	3.5	3.4	3.4	
	115 [46.1]	Total BTUH [kW]	44.1 [12.92]	42.1 [12.34]	40.2 [11.78]	40.1 [11.75]	38.4 [11.25]	36.7 [10.76]	36.9 [10.81]	35.3 [10.35]	33.7 [9.88]	
		Sens BTUH [kW]	27.7 [8.12]	24.8 [7.27]	21.9 [6.42]	33.5 [9.82]	30.0 [8.79]	26.5 [7.77]	36.9 [10.81]	34.8 [10.20]	30.7 [9.00]	
		Power	3.7	3.6	3.5	3.6	3.6	3.5	3.6	3.6	3.5	

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

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

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

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—A048

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]			1940 [915.5]	1550 [731.5]	1160 [547.4]	1940 [915.5]	1550 [731.5]	1160 [547.4]	1940 [915.5]	1550 [731.5]	1160 [547.4]
DR ①			.21	.18	.14	.21	.18	.14	.21	.18	.14
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	62.9 [18.43]	60.2 [17.64]	57.5 [16.85]	57.6 [16.88]	55.1 [16.15]	52.6 [15.42]	55.7 [16.32]	53.3 [15.62]	50.9 [14.92]
		Sens BTUH [kW]	38.2 [11.20]	34.2 [10.02]	30.2 [8.85]	43.8 [12.84]	39.2 [11.49]	34.6 [10.14]	51.4 [15.06]	46.0 [13.48]	40.6 [11.90]
		Power	2.9	2.9	2.8	2.9	2.8	2.8	2.9	2.8	2.7
	80 [26.7]	Total BTUH [kW]	61.0 [17.88]	58.4 [17.12]	55.7 [16.32]	55.7 [16.32]	53.3 [15.62]	50.9 [14.92]	53.8 [15.77]	51.5 [15.09]	49.1 [14.39]
		Sens BTUH [kW]	36.6 [10.73]	32.8 [9.61]	29.0 [8.50]	42.2 [12.37]	37.8 [11.08]	33.4 [9.79]	49.8 [14.59]	44.6 [13.07]	39.4 [11.55]
		Power	3.1	3.0	3.0	3.1	3.0	2.9	3.0	3.0	2.9
	85 [29.4]	Total BTUH [kW]	59.3 [17.38]	56.8 [16.65]	54.2 [15.88]	54.1 [15.86]	51.7 [15.15]	49.4 [14.48]	52.2 [15.30]	49.9 [14.62]	47.6 [13.95]
		Sens BTUH [kW]	35.5 [10.40]	31.8 [9.32]	28.1 [8.24]	41.1 [12.05]	36.8 [10.79]	32.5 [9.52]	48.7 [14.27]	43.6 [12.78]	38.5 [11.28]
		Power	3.3	3.2	3.1	3.2	3.2	3.1	3.2	3.1	3.1
	90 [32.2]	Total BTUH [kW]	57.9 [16.97]	55.4 [16.24]	52.9 [15.50]	52.6 [15.42]	50.3 [14.74]	48.0 [14.07]	50.7 [14.86]	48.5 [14.21]	46.3 [13.57]
		Sens BTUH [kW]	34.8 [10.20]	31.2 [9.14]	27.5 [8.06]	40.4 [11.84]	36.2 [10.61]	31.9 [9.35]	48.0 [14.07]	43.0 [12.60]	37.9 [11.11]
		Power	3.4	3.4	3.3	3.4	3.4	3.3	3.4	3.3	3.3
	95 [35]	Total BTUH [kW]	56.7 [16.62]	54.2 [15.88]	51.7 [15.15]	51.4 [15.06]	49.1 [14.39]	46.9 [13.75]	49.5 [14.51]	47.3 [13.86]	45.2 [13.25]
		Sens BTUH [kW]	34.3 [10.05]	30.7 [9.00]	27.2 [7.97]	39.9 [11.69]	35.7 [10.46]	31.6 [9.26]	47.5 [13.92]	42.5 [12.46]	37.6 [11.02]
		Power	3.6	3.6	3.5	3.6	3.5	3.5	3.6	3.5	3.4
	100 [37.8]	Total BTUH [kW]	55.5 [16.27]	53.1 [15.56]	50.7 [14.86]	50.3 [14.74]	48.1 [14.10]	45.9 [13.45]	48.4 [14.18]	46.3 [13.57]	44.2 [12.95]
		Sens BTUH [kW]	34.0 [9.96]	30.4 [8.91]	26.9 [7.88]	39.6 [11.61]	35.4 [10.37]	31.3 [9.17]	47.2 [13.83]	42.2 [12.37]	37.3 [10.93]
		Power	3.8	3.7	3.6	3.8	3.7	3.6	3.7	3.7	3.6
	105 [40.6]	Total BTUH [kW]	54.5 [15.97]	52.2 [15.30]	49.8 [14.59]	49.3 [14.45]	47.1 [13.80]	45.0 [13.19]	47.4 [13.89]	45.3 [13.28]	43.2 [12.66]
		Sens BTUH [kW]	33.7 [9.88]	30.2 [8.85]	26.6 [7.80]	39.3 [11.52]	35.2 [10.32]	31.1 [9.11]	46.9 [13.75]	42.0 [12.31]	37.1 [10.87]
		Power	4.0	3.9	3.8	4.0	3.9	3.8	3.9	3.8	3.8
	110 [43.3]	Total BTUH [kW]	53.6 [15.71]	51.3 [15.03]	49.0 [14.36]	48.3 [14.16]	46.2 [13.54]	44.1 [12.92]	46.4 [13.60]	44.4 [13.01]	42.4 [12.43]
		Sens BTUH [kW]	33.3 [9.76]	29.8 [8.73]	26.3 [7.71]	38.8 [11.37]	34.8 [10.20]	30.7 [9.00]	46.4 [13.60]	41.6 [12.19]	36.7 [10.76]
		Power	4.2	4.1	4.0	4.1	4.0	4.0	4.1	4.0	3.9
	115 [46.1]	Total BTUH [kW]	52.7 [15.44]	50.4 [14.77]	48.1 [14.10]	47.4 [13.89]	45.4 [13.31]	43.3 [12.69]	45.5 [13.33]	43.6 [12.78]	41.6 [12.19]
		Sens BTUH [kW]	32.6 [9.55]	29.2 [8.56]	25.8 [7.56]	38.2 [11.20]	34.2 [10.02]	30.2 [8.85]	45.5 [13.33]	41.0 [12.02]	36.2 [10.61]
		Power	4.3	4.2	4.2	4.3	4.2	4.1	4.3	4.2	4.1

GROSS SYSTEMS PERFORMANCE DATA—A060

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]			2380 [1123.2]	1900 [896.7]	1420 [670.1]	2380 [1123.2]	1900 [896.7]	1420 [670.1]	2380 [1123.2]	1900 [896.7]	1420 [670.1]
DR ①			.20	.17	.12	.20	.17	.12	.20	.17	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	73.0 [21.39]	69.8 [20.46]	66.6 [19.52]	68.1 [19.96]	65.2 [19.11]	62.2 [18.23]	64.2 [18.82]	61.4 [17.99]	58.6 [17.17]
		Sens BTUH [kW]	44.0 [12.90]	39.4 [11.55]	34.8 [10.20]	52.1 [15.27]	46.7 [13.69]	41.2 [12.07]	60.0 [17.58]	53.7 [15.74]	47.5 [13.92]
		Power	3.7	3.6	3.6	3.7	3.6	3.5	3.6	3.5	3.5
	80 [26.7]	Total BTUH [kW]	72.0 [21.10]	68.9 [20.19]	65.8 [19.28]	67.2 [19.69]	64.2 [18.82]	61.3 [17.97]	63.2 [18.52]	60.5 [17.73]	57.7 [16.91]
		Sens BTUH [kW]	43.3 [12.69]	38.8 [11.37]	34.2 [10.02]	51.4 [15.06]	46.0 [13.48]	40.7 [11.93]	59.3 [17.38]	53.1 [15.56]	46.9 [13.75]
		Power	3.9	3.8	3.8	3.9	3.8	3.7	3.8	3.7	3.7
	85 [29.4]	Total BTUH [kW]	70.7 [20.72]	67.7 [19.84]	64.6 [18.93]	65.9 [19.31]	63.0 [18.46]	60.2 [17.64]	61.9 [18.14]	59.3 [17.38]	56.6 [16.59]
		Sens BTUH [kW]	42.6 [12.48]	38.1 [11.17]	33.7 [9.88]	50.7 [14.86]	45.4 [13.31]	40.1 [11.75]	58.6 [17.17]	52.4 [15.36]	46.3 [13.57]
		Power	4.1	4.0	4.0	4.1	4.0	3.9	4.0	3.9	3.9
	90 [32.2]	Total BTUH [kW]	69.3 [20.31]	66.2 [19.40]	63.2 [18.52]	64.4 [18.87]	61.6 [18.05]	58.8 [17.23]	60.5 [17.73]	57.8 [16.94]	55.2 [16.18]
		Sens BTUH [kW]	41.8 [12.25]	37.5 [10.99]	33.1 [9.70]	49.9 [14.62]	44.7 [13.10]	39.5 [11.58]	57.8 [16.94]	51.8 [15.18]	45.7 [13.39]
		Power	4.3	4.2	4.2	4.3	4.2	4.1	4.2	4.1	4.1
	95 [35]	Total BTUH [kW]	67.6 [19.81]	64.7 [18.96]	61.7 [18.08]	62.8 [18.40]	60.0 [17.58]	57.3 [16.79]	58.8 [17.23]	56.3 [16.50]	53.7 [15.74]
		Sens BTUH [kW]	41.1 [12.05]	36.8 [10.79]	32.5 [9.52]	49.2 [14.42]	44.0 [12.90]	38.9 [11.40]	57.1 [16.73]	51.1 [14.98]	45.2 [13.25]
		Power	4.5	4.5	4.4	4.5	4.4	4.3	4.4	4.4	4.3
	100 [37.8]	Total BTUH [kW]	65.9 [19.31]	63.1 [18.49]	60.2 [17.64]	61.1 [17.91]	58.4 [17.12]	55.8 [16.35]	57.1 [16.73]	54.7 [16.03]	52.2 [15.30]
		Sens BTUH [kW]	40.3 [11.81]	36.1 [10.58]	31.9 [9.35]	48.4 [14.18]	43.4 [12.72]	38.3 [11.22]	56.3 [16.50]	50.4 [14.77]	44.5 [13.04]
		Power	4.8	4.7	4.6	4.7	4.6	4.5	4.7	4.6	4.5
	105 [40.6]	Total BTUH [kW]	64.3 [18.84]	61.5 [18.02]	58.7 [17.20]	59.4 [17.41]	56.9 [16.68]	54.3 [15.91]	55.5 [16.27]	53.1 [15.56]	50.7 [14.86]
		Sens BTUH [kW]	39.5 [11.58]	35.4 [10.37]	31.3 [9.17]	47.6 [13.95]	42.6 [12.48]	37.7 [11.05]	55.5 [16.27]	49.7 [14.57]	43.9 [12.87]
		Power	5.0	4.9	4.8	4.9	4.8	4.7	4.9	4.8	4.7
	110 [43.3]	Total BTUH [kW]	62.8 [18.40]	60.0 [17.58]	57.3 [16.79]	57.9 [16.97]	55.4 [16.24]	52.9 [15.50]	54.0 [15.83]	51.6 [15.12]	49.3 [14.45]
		Sens BTUH [kW]	38.7 [11.34]	34.6 [10.14]	30.6 [8.97]	46.8 [13.72]	41.9 [12.28]	37.0 [10.84]	54.0 [15.83]	49.0 [14.36]	43.3 [12.69]
		Power	5.2	5.1	5.0	5.1	5.0	4.9	5.1	5.0	4.9
	115 [46.1]	Total BTUH [kW]	61.4 [17.99]	58.8 [17.23]	56.1 [16.44]	56.6 [16.59]	54.1 [15.86]	51.7 [15.15]	52.6 [15.42]	50.3 [14.74]	48.0 [14.07]
		Sens BTUH [kW]	37.8 [11.08]	33.9 [9.94]	29.9 [8.76]	45.9 [13.45]	41.1 [12.05]	36.3 [10.64]	52.6 [15.42]	48.2 [14.13]	42.6 [12.48]
		Power	5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1

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

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

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

[ ] Designates Metric Conversions

DIRECT-DRIVE 208 AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts—208 Volts							
								External Static Pressure—Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RKNA-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]
							Watts	450	400	395	385	380	375	370	360
		Med	120,000 [35.17]			Med	CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]
							Watts	525	515	510	505	490	475	460	445
						High	CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]
							Watts	650	640	630	610	580	560	545	515
RKNA-A042	Med	Low	80,000 [23.45]	1225/1575	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]
							Watts	450	400	395	385	380	375	370	360
		Med	120,000 [35.17]			Med	CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]
							Watts	525	515	510	505	490	475	460	445
						High	CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]
							Watts	650	640	630	610	580	560	545	515
RKNA-A048	Med	Low	80,000 [23.45]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]
							Watts	450	400	395	385	380	375	370	360
		Med	100,000 [29.31]			Med	CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]
							Watts	525	515	510	505	490	475	460	445
		High	135,000 [39.56]			High	CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]
							Watts	650	640	630	610	580	560	545	515
RKNA-A060	Med	Low	100,000 [29.31]	1750/2250	10x10 1 HP [745] 3 Speed Motor	Low	CFM	1575 [743]	1536 [725]	1496 [706]	1457 [688]	1417 [669]	1377 [650]	1338 [631]	1298 [613]
							Watts	297	314	330	347	364	381	397	414
						Med	CFM	1985 [937]	1954 [922]	1919 [906]	1876 [885]	1824 [861]	1759 [830]	1679 [792]	1581 [746]
							Watts	535	553	574	593	606	609	599	572
		High	135,000 [39.56]			High	CFM	2431 [1147]	2372 [1119]	2306 [1088]	2228 [1051]	2138 [1009]	2032 [959]	1907 [900]	1762 [832]
							Watts	970	981	964	926	872	806	736	665

[ ] Designates Metric Conversions

DIRECT-DRIVE 230 AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts—230 Volts External Static Pressure—Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RKNA-A036	Low	Low	80,000 [23.45]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]
							Watts	470	460	455	450	440	435	425	410
		Med	120,000 [35.17]			Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]
							Watts	635	600	580	570	550	535	505	475
						High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]
							Watts	780	760	740	700	660	635	600	555
RKNA-A042	Med	Low	80,000 [23.45]	1225/1575	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]
							Watts	470	460	455	450	440	435	425	410
		Med	120,000 [35.17]			Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]
							Watts	635	600	580	570	550	535	505	475
						High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]
							Watts	780	760	740	700	660	635	600	555
RKNA-A048	Med	Low	80,000 [23.45]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]
							Watts	470	460	455	450	440	435	425	410
		Med	100,000 [29.31]			Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]
							Watts	635	600	580	570	550	535	505	475
		High	135,000 [39.56]			High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]
							Watts	780	760	740	700	660	635	600	555
RKNA-A060	Med	Low	100,000 [29.31]	1750/2250	10x10 1 HP [745] 3 Speed Motor	Low	CFM	1575 [743]	1536 [725]	1496 [706]	1457 [688]	1417 [669]	1377 [650]	1338 [631]	1298 [613]
							Watts	297	314	330	347	364	381	397	414
						Med	CFM	1985 [937]	1954 [922]	1919 [906]	1876 [885]	1824 [861]	1759 [830]	1679 [792]	1581 [746]
							Watts	535	553	574	593	606	609	599	572
		High	135,000 [39.56]			High	CFM	2431 [1147]	2372 [1119]	2306 [1088]	2228 [1051]	2138 [1009]	2032 [959]	1907 [900]	1762 [832]
							Watts	970	981	964	926	872	806	736	665

[ ] Designates Metric Conversions

DIRECT-DRIVE 460 AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed		CFM [L/s] Air Delivery/RPM/Watts—460 Volts External Static Pressure—Inches W.C. [kPa]							
	Cool	Heat						0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RKNA-A036	Low	Low	80,000 [23.45] 120,000 [35.17]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]
							Watts	470	460	455	450	440	435	425	410
						Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]
							Watts	635	600	580	570	550	535	505	475
						High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]
							Watts	780	760	740	700	660	635	600	555
RKNA-A042	Med			1225/1575	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]
							Watts	470	460	455	450	440	435	425	410
		Med	80,000 [23.45] 120,000 [35.17]			Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]
							Watts	635	600	580	570	550	535	505	475
						High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]
							Watts	780	760	740	700	660	635	600	555
RKNA-A048	High			1400/1800	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]
							Watts	470	460	455	450	440	435	425	410
						Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]
							Watts	635	600	580	570	550	535	505	475
		High	100,000 [29.31] 135,000 [39.56]			High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]
							Watts	780	760	740	700	660	635	600	555

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—3 TON [10.55 kW] GAS HEAT MODELS BELT DRIVE

Air Flow CFM [L/s]	Capacity 3 Ton [10.55 kW]—13 SEER Voltage 208/230-460—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
900 [425]	—	—	—	—	650	230	715	260	780	290	845	340	905	400	960	455	1010	470	1055	490	1095	525	1140	555	1170	580	1215	625	1240	645
1000 [472]	—	—	615	225	670	255	740	280	800	320	860	375	925	425	980	470	1025	485	1075	515	1105	540	1155	575	1180	605	1225	650	1260	715
1100 [519]	—	—	630	255	700	275	760	310	820	345	885	390	940	435	995	485	1035	505	1085	540	1120	575	1170	615	1190	640	1235	690	1270	730
1200 [566]	605	250	655	270	720	305	775	340	835	370	900	415	955	475	1005	495	1045	540	1095	580	1130	605	1180	655	1210	690	1245	730	1290	780
1300 [614]	620	275	675	300	750	340	805	375	855	400	920	455	970	505	1025	530	1060	575	1115	610	1155	630	1195	680	1220	730	1255	780	1300	825
1400 [661]	640	305	710	340	775	375	825	395	880	440	940	480	990	520	1035	560	1080	590	1125	650	1170	705	1215	775	1230	810	1270	840	1320	880
1500 [708]	680	340	745	370	800	405	845	425	910	490	955	535	1005	565	1050	615	1090	660	1135	700	1185	760	1225	820	1240	850	1290	905	1330	940

NOTE: Bold lines separate L, M and N drives respectively.

Drive Package	L							M						
Motor H.P. [W]	1/2 [373]							1/2 [373]						
Blower Sheave	6.9" Pitch Diameter							6.4" Pitch Diameter						
Motor Sheave	2.4"-3.4" Pitch Diameter							3.4"-4.4" Pitch Diameter						
Turns Open	0	**1**	2	3	4	5	6	0	1	2	**3**	4	5	6
RPM	920	**855**	800	750	705	665	605	1230	1180	1130	**1090**	1045	1000	940

NOTE: Factory sheave settings are shown in bold print.

N Drive (Field Supplied)
Blower Sheave—5.7 Pitch Diameter
Motor Sheave—3.4-4.4 Pitch Diameter
RPM Range—1030-1330
Motor—1/2 H.P. [373 W]—1750 RPM

COMPONENT AIR RESISTANCE

Component	Standard Indoor Airflow—CFM [L/s]									
	1000 [472]	1200 [566]	1400 [661]	1600 [755]	1800 [850]	2000 [944]	2200 [1038]	2400 [1133]	2600 [1227]	2800 [1321]
	Resistance—Inches Water [kPa]									
Wet Coil	.035	.040	.060	.070	.085	.100	.110	.120	.125	.130
Downflow	.055	.060	.066	.072	.080	.086	.093	.100	.107	.115
R.S.I. Economizer R.A. Damper	.05	.06	.07	.08	.09	.10	.11	.12	.13	.15

NOTES:

1. Performance shown with dry coil & standard 1" [25.4 mm] filters
2. Standard CFM @ .075 lbs./cu. ft.
3. Motor efficiency = 80% on 208/230, 460, 575 V. 3-Phase
   Motor efficiency = 50% on 208/230 V. 1-Phase
4. BHP = $\frac{\text{Watts x Motor Eff.}}{746}$
5. Add component resistance to duct static to determine total E.S.P.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—3.5 TON [12.31 kW] BELT DRIVE

Air Flow CFM [L/s]	Capacity 3.5 Ton [12.31 kW]—13 SEER Voltage 208/230-460—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
1000 [425]	—	—	—	—	—	—	735	305	790	325	850	360	895	380	945	400	995	420	1060	455	1105	490	1145	520	1185	550	1220	590	1265	630
1100 [519]	—	—	—	—	—	—	750	320	810	355	870	380	915	400	965	415	1010	450	1075	500	1120	520	1160	560	1195	590	1240	640	1275	700
1200 [566]	—	—	—	—	725	335	770	350	835	380	885	410	935	440	985	450	1030	500	1090	540	1130	560	1170	600	1215	650	1255	710	1290	760
1300 [614]	—	—	—	—	745	360	800	395	860	415	905	445	955	465	1005	510	1050	550	1105	590	1140	610	1180	650	1230	710	1270	790	1305	815
1400 [661]	—	—	725	375	765	395	830	420	880	460	925	490	985	510	1015	560	1065	600	1120	640	1150	665	1190	710	1245	790	1290	850	1325	900
1500 [708]	—	—	740	410	795	440	855	460	905	495	950	540	1000	590	1030	610	1090	650	1135	690	1170	720	1205	765	1260	860	1310	920	1335	980
1600 [755]	725	410	765	445	820	470	875	510	925	540	975	570	1015	640	1055	660	1105	700	1145	745	1185	800	1225	860	1275	915	1325	1005	1350	1040
1700 [802]	740	460	795	495	850	520	900	550	945	600	1000	650	1020	690	1075	740	1125	760	1165	810	1205	865	1240	940	1290	1005	1340	—	—	—
1800 [850]	770	500	825	535	875	570	925	605	980	650	1010	710	1045	750	1100	790	1145	835	1185	900	1225	960	1270	1020	1315	1110	—	—	—	—

NOTE: Bold lines separate L, M and N drives respectively.

Drive Package	L							M						
Motor H.P. [W]	1/2 [373]							1/2 [373]						
Blower Sheave	6.9" Pitch Diameter							6.4" Pitch Diameter						
Motor Sheave	2.8"-3.8" Pitch Diameter							4.0"-5.0" Pitch Diameter						
Turns Open	0	1	**2**	3	4	5	6	0	1	**2**	3	4	5	6
RPM	958	945	**905**	865	820	770	725	1225	1185	**1145**	1100	1060	1020	1000

N Drive (Field Supplied)
Blower Sheave—6.4 Pitch Diameter
Motor Sheave—4.0-5.0 Pitch Diameter
RPM Range—1090-1365
Motor—1/2 H.P. [373 W]—1750 RPM

AIRFLOW PERFORMANCE—4 TON [14.07 kW] BELT DRIVE

Air Flow CFM [L/s]	Capacity 4 Ton [14.07 kW]—13 SEER Voltage 208/230-460—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
1200 [566]	—	—	—	—	—	—	780	360	835	390	885	410	935	440	975	475	1015	505	1070	550	1120	570	1170	600	1220	635	1265	655	1320	705
1300 [614]	—	—	—	—	—	—	805	390	855	410	910	450	950	470	990	510	1030	545	1085	590	1135	610	1185	640	1235	685	1285	730	1335	775
1400 [661]	—	—	—	—	770	385	825	425	870	445	925	480	960	510	1010	550	1050	600	1105	615	1155	650	1200	700	1245	730	1300	770	1345	825
1500 [708]	—	—	—	—	790	425	850	475	900	490	940	515	980	550	1025	600	1075	640	1125	670	1175	700	1220	745	1270	780	1315	825	1355	855
1600 [755]	—	—	775	425	815	455	870	495	920	530	960	560	1005	605	1050	660	1095	680	1145	710	1195	755	1235	800	1285	845	1330	890	1370	935
1700 [802]	—	—	795	470	850	505	900	540	940	560	980	605	1025	655	1075	715	1120	735	1165	770	1215	810	1270	870	1305	915	1350	940	1385	1000
1800 [850]	775	470	820	515	875	555	930	600	960	625	1010	680	1050	740	1100	760	1150	800	1190	840	1235	890	1280	930	1330	985	1365	1020	—	—
1900 [897]	800	525	855	560	910	610	955	650	995	700	1035	755	1075	800	1130	840	1175	870	1220	920	1260	955	1305	1010	1350	1070	1385	1115	—	—
2000 [944]	830	595	885	640	940	670	970	710	1020	790	1065	840	1115	860	1160	900	1200	950	1240	1010	1295	1060	1330	1105	1375	1160	—	—	—	—

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

Drive Package	L							M						
Motor H.P. [W]	1/2 [373]							3/4 [559]						
Blower Sheave	6.4" Pitch Diameter							5.7" Pitch Diameter						
Motor Sheave	2.8"-3.8" Pitch Diameter							3.4"-4.4" Pitch Diameter						
Turns Open	0	1	2	**3**	4	5	6	0	1	2	3	**4**	5	6
RPM	1060	1000	955	**910**	865	825	770	1385	1330	1280	1225	**1175**	1120	1060

NOTE: Factory sheave settings are shown in bold print.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—5 TON [17.6 kW] THREE PHASE BELT DRIVE

Air Flow CFM [L/s]	Capacity 5 Ton [17.6 kW]—13 SEER Voltage 208/230-460—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
1400 [661]	—	—	—	—	780	370	815	385	875	425	930	460	970	490	1030	540	1065	570	1105	595	1150	615	1195	645	1235	660	1300	705	1340	745
1500 [708]	—	—	—	—	795	405	840	415	895	440	945	500	995	540	1045	595	1080	615	1135	650	1165	675	1215	700	1255	735	1320	775	1355	805
1600 [755]	—	—	780	390	805	425	870	470	915	510	965	560	1015	600	1060	640	1105	680	1145	705	1180	730	1225	750	1275	790	1340	840	1365	880
1700 [802]	—	—	795	450	840	490	895	530	940	570	990	605	1035	640	1075	680	1120	725	1160	755	1200	790	1245	815	1300	855	1355	905	1375	940
1800 [850]	780	455	815	470	870	540	915	560	965	615	1010	660	1055	710	1100	760	1140	785	1175	810	1225	850	1260	880	1320	930	1365	985	1390	1020
1900 [897]	800	485	850	530	895	590	945	640	995	675	1035	720	1070	775	1120	810	1160	850	1200	890	1245	915	1290	960	1335	1000	1375	1050	1405	1100
2000 [944]	830	550	880	605	930	655	970	700	1015	730	1055	790	1105	830	1145	875	1180	910	1225	950	1260	980	1320	1035	1350	1075	1385	1120	—	—
2100 [991]	860	615	915	655	955	705	1005	760	1040	820	1090	870	1130	910	1170	950	1210	995	1250	1020	1290	1060	1335	1100	1370	1150	1400	1200	—	—
2200 [1038]	895	680	945	735	995	780	1030	830	1060	880	1120	940	1155	980	1195	1020	1240	1055	1275	1100	1320	1140	1360	1180	1385	1225	—	—	—	—
2300 [1085]	940	755	975	795	1015	830	1065	910	1100	965	1150	105	1180	1050	1225	1095	1265	1125	1310	1175	1350	1230	1375	1260	1405	1320	—	—	—	—
2400 [1133]	970	825	1015	880	1040	925	1095	1005	1145	1055	1175	1085	1225	1140	1260	1175	1300	1210	1340	1255	1370	1315	1400	1375	—	—	—	—	—	—
2500 [1179]	1015	910	1040	935	1095	1040	1145	1100	1170	1140	1200	1175	1260	1215	1305	1270	1360	1350	1400	1395	—	—	—	—	—	—	—	—	—	—

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

Drive Package	L							M						
Motor H.P. [W]	3/4 [559]							1 [746]						
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	1095	1040	**995**	940	890	835	780	1405	1360	1305	**1250**	1195	1145	1095

NOTE: Factory sheave settings are shown in bold print.

[ ] Designates Metric Conversions

ELECTRICAL DATA – RKNA SERIES										
		-A036CK08E	-A036CK12E	-A036CL08E	-A036CL12E	-A036CM08E	-A036CM12E	-A036DK08E	-A036DK12E	-A036DL08E
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	414-506	414-506	414-506
	Minimum Circuit Ampacity	18/18	18/18	17/17	17/17	17/17	17/17	11	11	10
	Minimum Overcurrent Protection Device Size	20/20	20/20	20/20	20/20	20/20	20/20	15	15	15
	Maximum Overcurrent Protection Device Size	25/25	25/25	25/25	25/25	25/25	25/25	15	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3	3	3	3
	HP	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	9.6/9.6	9.6/9.6	9.6/9.6	9.6/9.6	9.6/9.6	9.6/9.6	5.8	5.8	5.8
	Amps (LRA)	88/88	88/88	88/88	88/88	88/88	88/88	38	38	38
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1
	Amps (LRA)	3	3	3	3	3	3	1.9	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
	Phase	1	1	3	3	3	3	1	1	3
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA)	4	4	2.8	2.8	2.8	2.8	2	2	1.4
	Amps (LRA)	6.7	6.7	11.3	11.3	11.3	11.3	3.6	3.6	6.2

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

ELECTRICAL DATA – RKNA SERIES										
		-A036DL12E	-A036DM08E	-A036DM12E	-A036JK08E	-A036JK08X	-A036JK12E	-A036JK12X	-A042CK08E	-A042CK12E
Unit Information	Unit Operating Voltage Range	414-506	414-506	414-506	187-253	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	10	10	10	24/24	24/24	24/24	24/24	21/21	21/21
	Minimum Overcurrent Protection Device Size	15	15	15	30/30	30/30	30/30	30/30	25/25	25/25
	Maximum Overcurrent Protection Device Size	15	15	15	35/35	35/35	35/35	35/35	30/30	30/30
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	3	3	3	1	1	1	1	3	3
	HP	3	3	3	3	3	3	3	3 1/2	3 1/2
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	5.8	5.8	5.8	14.4/14.4	14.4/14.4	14.4/14.4	14.4/14.4	12.2/12.2	12.2/12.2
	Amps (LRA)	38	38	38	77/77	77/77	77/77	77/77	88/88	88/88
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (LRA)	1.9	1.9	1.9	3	3	3	3	3	3
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	3	3	3	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA)	1.4	1.4	1.4	4	4	4	4	4	4
	Amps (LRA)	6.2	6.2	6.2	6.7	6.7	6.7	6.7	6.7	6.7

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

ELECTRICAL DATA – RKNA SERIES										
		-A042CL08E	-A042CL12E	-A042CM08E	-A042CM12E	-A042DK08E	-A042DK12E	-A042DL08E	-A042DL12E	-A042DM08E
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	414-506	414-506	414-506	414-506	414-506
	Minimum Circuit Ampacity	20/20	20/20	20/20	20/20	11	11	10	10	10
	Minimum Overcurrent Protection Device Size	25/25	25/25	25/25	25/25	15	15	15	15	15
	Maximum Overcurrent Protection Device Size	30/30	30/30	30/30	30/30	15	15	15	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	460	460	460	460	460
	Phase	3	3	3	3	3	3	3	3	3
	HP	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	12.2/12.2	12.2/12.2	12.2/12.2	12.2/12.2	5.8	5.8	5.8	5.8	5.8
	Amps (LRA)	88/88	88/88	88/88	88/88	44	44	44	44	44
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	460	460	460	460	460
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1.5	1.5	1.5	1.5	1	1	1	1	1
	Amps (LRA)	3	3	3	3	1.9	1.9	1.9	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	460	460	460	460	460
	Phase	3	3	3	3	1	1	3	3	3
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA)	2.8	2.8	2.8	2.8	2	2	1.4	1.4	1.4
	Amps (LRA)	11.3	11.3	11.3	11.3	3.6	3.6	6.2	6.2	6.2

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

ELECTRICAL DATA – RKNA SERIES

		-A042DM12E	-A042JK08E	-A042JK08X	-A042JK12E	-A042JK12X	-A048CK08E	-A048CK10E	-A048CK13E	-A048CL08E
Unit Information	Unit Operating Voltage Range	414-506	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	10	30/30	30/30	30/30	30/30	21/21	21/21	21/21	20/20
	Minimum Overcurrent Protection Device Size	15	35/35	35/35	35/35	35/35	25/25	25/25	25/25	25/25
	Maximum Overcurrent Protection Device Size	15	45/45	45/45	45/45	45/45	30/30	30/30	30/30	30/30
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	3	1	1	1	1	3	3	3	3
	HP	3 1/2	3 1/2	3 1/2	3 1/2	3 1/3	4	4	4	4
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	5.8	19.2/19.2	19.2/19.2	19.2/19.2	19.2/19.2	12.2/12.2	12.2/12.2	12.2/12.2	12.2/12.2
	Amps (LRA)	44	104/104	104/104	104/104	104/104	80.8/80.8	80.8/80.8	80.8/80.8	80.8/80.8
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Amps (LRA)	1.9	3	3	3	3	3	3	3	3
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	460	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	3	1	1	1	1	1	1	1	3
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA)	1.4	4	4	4	4	4	4	4	2.8
	Amps (LRA)	6.2	6.7	6.7	6.7	6.7	6.7	6.7	6.7	11.3

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

ELECTRICAL DATA – RKNA SERIES										
		-A048CL10E	-A048CL13E	-A048CM08E	-A048CM10E	-A048CM13E	-A048DK08E	-A048DK10E	-A048DK13E	-A048DL08E
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	414-506	414-506	414-506	414-506
	Minimum Circuit Ampacity	20/20	20/20	21/21	21/21	21/21	11	11	11	11
	Minimum Overcurrent Protection Device Size	25/25	25/25	25/25	25/25	25/25	15	15	15	15
	Maximum Overcurrent Protection Device Size	30/30	30/30	30/30	30/30	30/30	15	15	15	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	460	460	460	460
	Phase	3	3	3	3	3	3	3	3	3
	HP	4	4	4	4	4	4	4	4	4
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	12.2/12.2	12.2/12.2	12.2/12.2	12.2/12.2	12.2/12.2	6.1	6.1	6.1	6.1
	Amps (LRA)	80.8/80.8	80.8/80.8	80.8/80.8	80.8/80.8	80.8/80.8	41	41	41	41
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	460	460	460	460
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1.5	1.5	1.5	1.5	1.5	1	1	1	1
	Amps (LRA)	3	3	3	3	3	1.9	1.9	1.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	460	460	460	460
	Phase	3	3	3	3	3	1	1	1	3
	HP	1/2	1/2	3/4	3/4	3/4	1/2	1/2	1/2	1/2
	Amps (FLA)	2.8	2.8	3.4	3.4	3.4	2	2	2	1.4
	Amps (LRA)	11.3	11.3	16.8	16.8	16.8	3.6	3.6	3.6	6.2

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

ELECTRICAL DATA – RKNA SERIES										
		-A048DL10E	-A048DL13E	-A048DM08E	-A048DM10E	-A048DM13E	-A048JK08E	-A048JK08X	-A048JK10E	-A048JK10X
Unit Information	Unit Operating Voltage Range	414-506	414-506	414-506	414-506	414-506	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	11	11	11	11	11	31/31	31/31	31/31	31/31
	Minimum Overcurrent Protection Device Size	15	15	15	15	15	40/40	40/40	40/40	40/40
	Maximum Overcurrent Protection Device Size	15	15	15	15	15	50/50	50/50	50/50	50/50
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	460	460	208/230	208/230	208/230	208/230
	Phase	3	3	3	3	3	1	1	1	1
	HP	4	4	4	4	4	4	4	4	4
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	6.1	6.1	6.1	6.1	6.1	20.2/20.2	20.2/20.2	20.2/20.2	20.2/20.2
	Amps (LRA)	41	41	41	41	41	137/137	137/137	137/137	137/137
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	460	460	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1	1	1	1	1	1.5	1.5	1.5	1.5
	Amps (LRA)	1.9	1.9	1.9	1.9	1.9	3	3	3	3
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	460	460	208/230	208/230	208/230	208/230
	Phase	3	3	3	3	3	1	1	1	1
	HP	1/2	1/2	3/4	3/4	3/4	1/2	1/2	1/2	1/2
	Amps (FLA)	1.4	1.4	1.6	1.6	1.6	4	4	4	4
	Amps (LRA)	6.2	6.2	8.4	8.4	8.4	6.7	6.7	6.7	6.7

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

ELECTRICAL DATA – RKNA SERIES										
		-A048JK13E	-A048JK13X	-A060CK10E	-A060CK13E	-A060CL10E	-A060CL13E	-A060CM10E	-A060CM13E	-A060DL10E
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	414-506
	Minimum Circuit Ampacity	31/31	31/31	30/30	30/30	25/25	25/25	26/26	26/26	12
	Minimum Overcurrent Protection Device Size	40/40	40/40	35/35	35/35	30/30	30/30	30/30	30/30	15
	Maximum Overcurrent Protection Device Size	50/50	50/50	40/40	40/40	40/40	40/40	40/40	40/40	15
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	460
	Phase	1	1	3	3	3	3	3	3	3
	HP	4	4	5	5	5	5	5	5	5
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	20.2/20.2	20.2/20.2	15.4/15.4	15.4/15.4	15.4/15.4	15.4/15.4	15.4/15.4	15.4/15.4	7.1
	Amps (LRA)	137/137	137/137	110/110	110/110	110/110	110/110	110/110	110/110	52
Condenser Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	460
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	1
	Amps (LRA)	3	3	4.9	4.9	4.9	4.9	4.9	4.9	1.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	460
	Phase	1	1	1	1	3	3	3	3	3
	HP	1/2	1/2	1	1	3/4	3/4	1	1	3/4
	Amps (FLA)	4	4	7.6	7.6	3.4	3.4	3.8	3.8	1.6
	Amps (LRA)	6.7	6.7	0	0	16.8	16.8	24	24	8.4

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

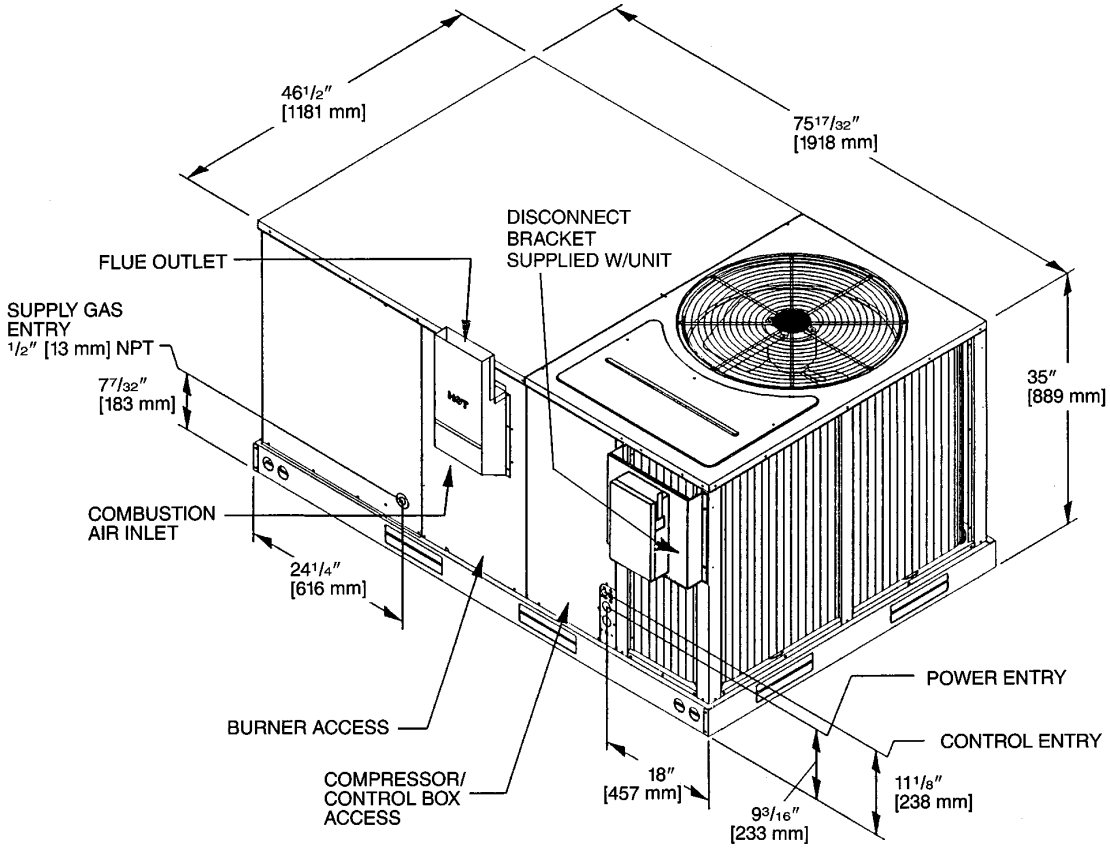
ELECTRICAL DATA – RKNA SERIES

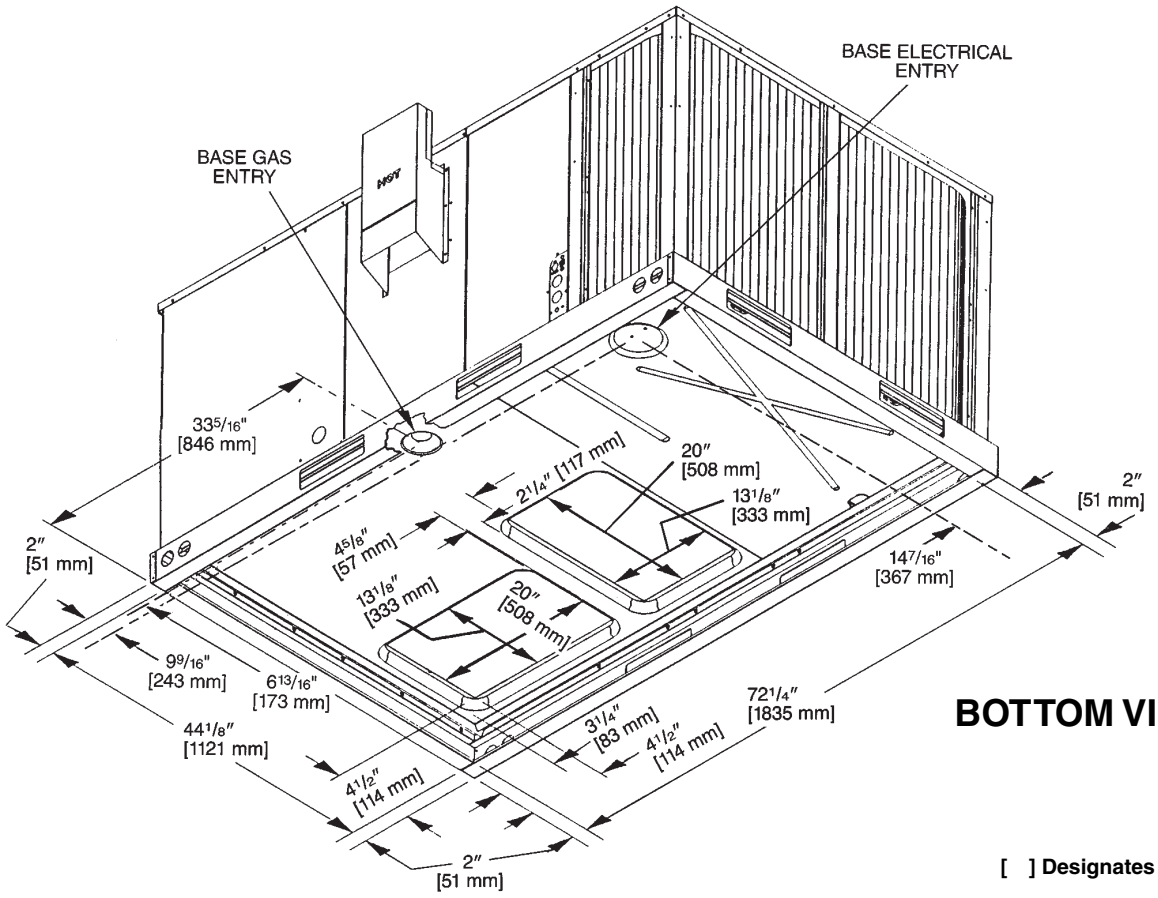
		-A060DL13E	-A060DM10E	-A060DM13E	-A060JK10E	-A060JK10X	-A060JK13E	-A060JK13X
Unit Information	Unit Operating Voltage Range	414-506	414-506	414-506	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	12	12	12	42/42	42/42	42/42	42/42
	Minimum Overcurrent Protection Device Size	15	15	15	50/50	50/50	50/50	50/50
	Maximum Overcurrent Protection Device Size	15	15	15	60/60	60/60	60/60	60/60
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	460	460	460	208/230	208/230	208/230	208/230
	Phase	3	3	3	1	1	1	1
	HP	5	5	5	5	5	5	5
	RPM	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	7.1	7.1	7.1	25.3/25.3	25.3/25.3	25.3/25.3	25.3/25.3
	Amps (LRA)	52	52	52	141/141	141/141	141/141	141/141
Condenser Motor	No.	1	1	1	1	1	1	1
	Volts	460	460	460	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1	1	1	2.2	2.2	2.2	2.2
	Amps (LRA)	1.9	1.9	1.9	4.9	4.9	4.9	4.9
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	460	460	460	208/230	208/230	208/230	208/230
	Phase	3	3	3	1	1	1	1
	HP	3/4	1	1	1	1	1	1
	Amps (FLA)	1.6	1.9	1.9	7.6	7.6	7.6	7.6
	Amps (LRA)	8.4	12	12	0	0	0	0

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

UNIT DIMENSIONS
PACKAGE GAS ELECTRIC UNITS

RKNA 3 TO 5 TON [10.6 TO 17.6 kW] MODELS



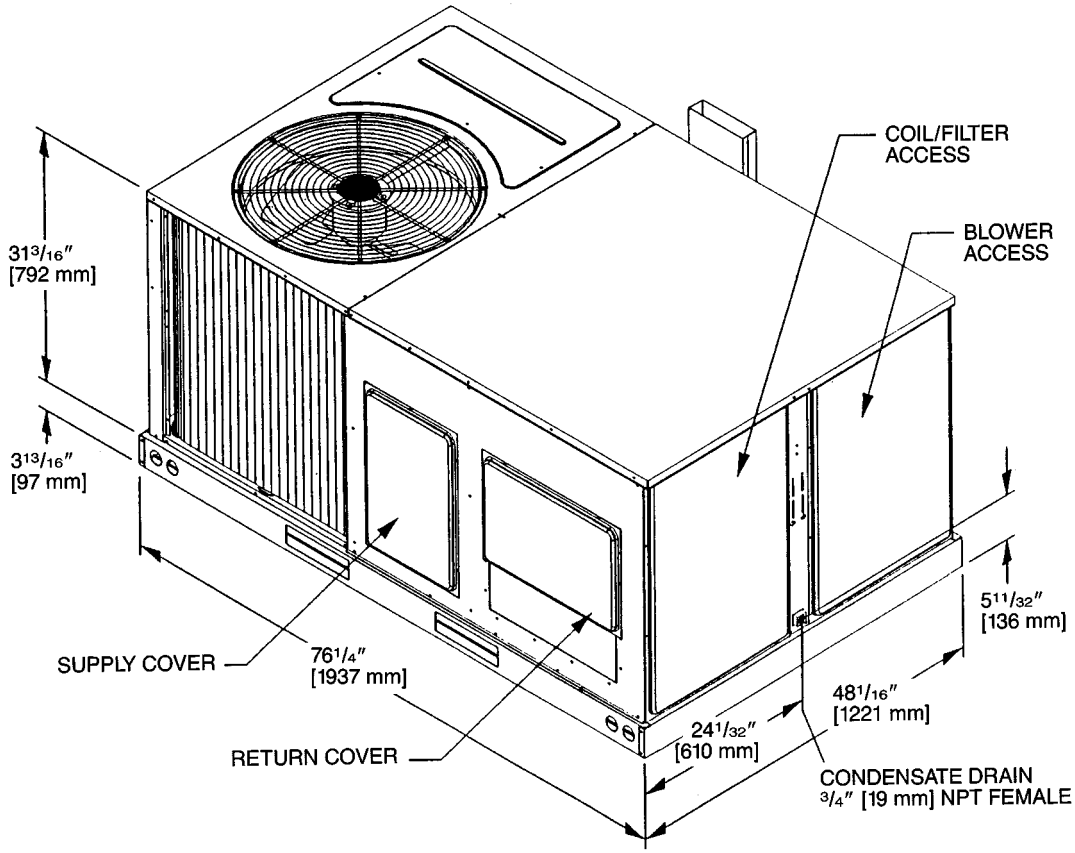


BOTTOM VIEW

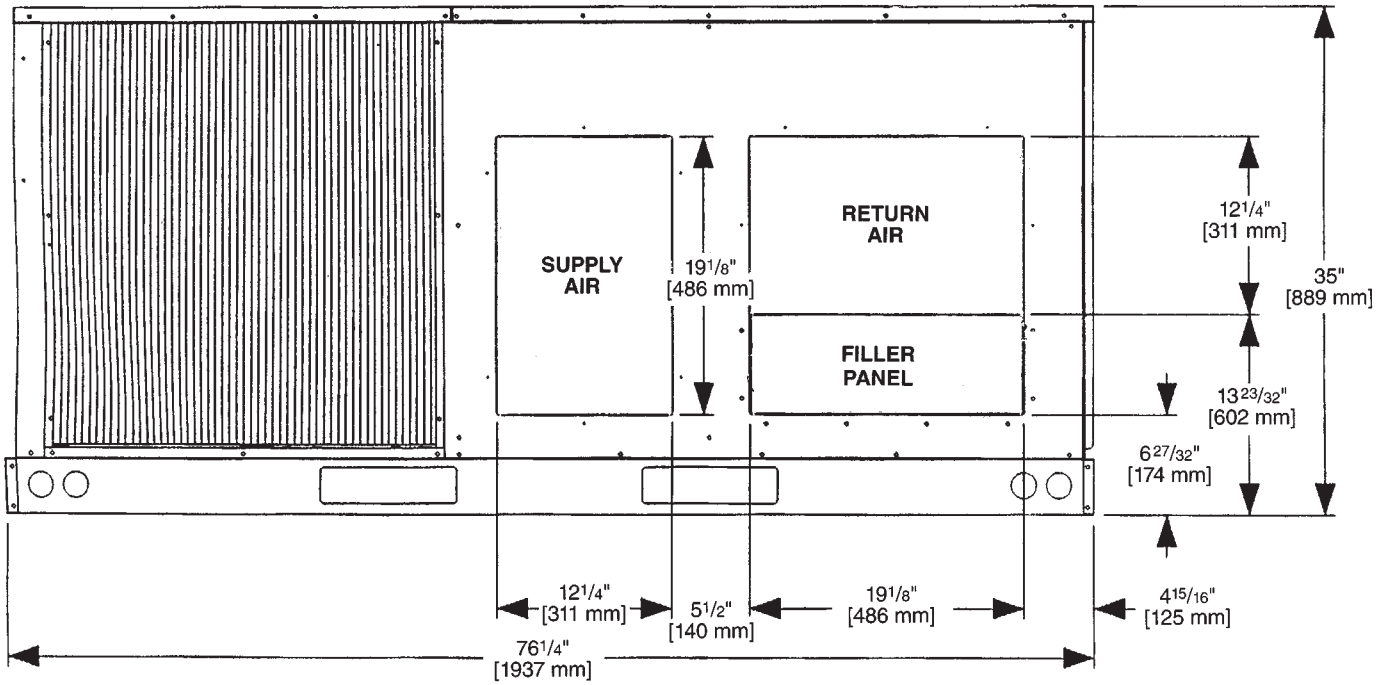
[ ] Designates Metric Conversions

UNIT DIMENSIONS
PACKAGE GAS ELECTRIC UNITS

RKNA 3 TO 5 TON [10.6 TO 17.6 kW] MODELS



SUPPLY AND RETURN DIMENSIONS



[ ] Designates Metric Conversions

WEIGHTS

Accessory	3-5 Ton [10.6-17.6 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]
3-5 [10.6-17.6]	38 1/4 [972]	25 3/4 [654]

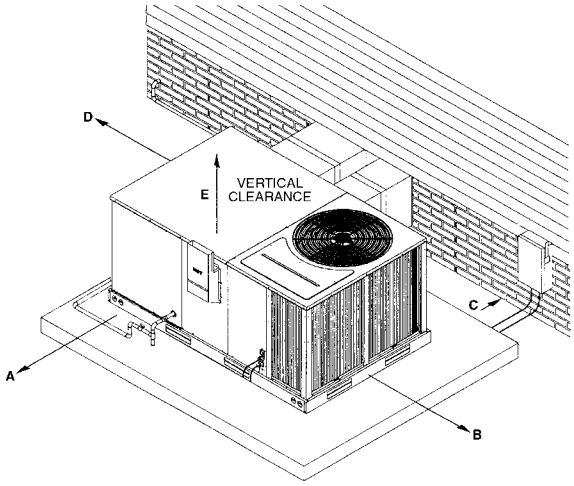
Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
3-5 [10.6-17.6]	22%	27%	23%	28%

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

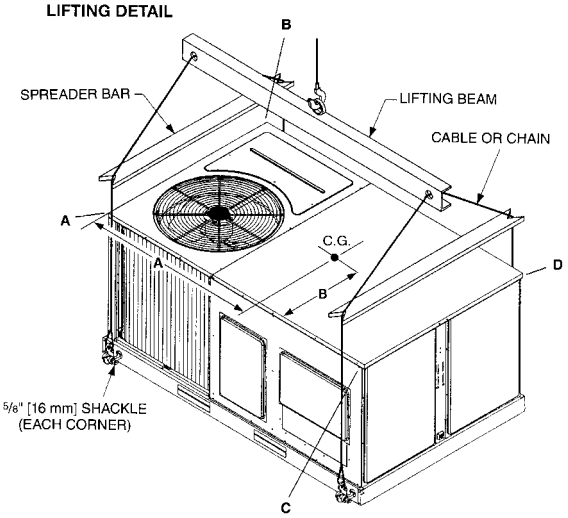
The following minimum clearances are recommended for proper unit performance and serviceability.

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 3 to 5 Ton [10.6 to 17.6 kW]	Accessory Model No. 3 to 5 Ton [10.6 to 17.6 kW]	Factory Installed 3 to 5 Ton [10.6 to 17.6 kW]
Thermostats	RKNA-	See Thermostat Specification Sheet (T22-001)	No
Roofcurb 14"	RKNA-	RXKG-CAD14	No
Roofcurb 24"	RKNA-	RXKG-CAD24	No
Roofcurb Adapters	RKNA-	RXRX-BBCDB21 RXRX-BBCDB22 RXRX-BBCDB23	No
Economizer with Single Enthalpy ②	RKNA-	RXRD-MECM3	Yes
Dual Enthalpy Kit	RKNA-	RXRX-AV02	No
CO_2 Sensor Only	RKNA-	RXRX-AR02	No
Power Exhaust	RKNA-	RXRX-BGF04 (C, D & Y)	No
Fresh Air Damper Manual	RKNA-	RXRF-FBA1	No
Fresh Air Damper Motorized	RKNA-	RXRF-FBB1	No
Rectangular to Round 18" Duct Adapters for Concentric Diffuser	RKNA-	RXMC-CB03	No
Rectangular to Round 20" Duct Adapters for Concentric Diffuser	RKNA-	RXMC-CB04	No
Concentric Diffuser 18" Step	RKNA-	RXRN-FA60	No
Concentric Diffuser 18" Flush	RKNA-	RXRN-FA70	No
Rectangular to Round 16" Side	RKNA-	RXMC-BB01	No
Louver Kit (3 Sides)	All RKNA- Models	RXRX-AAD01B	Yes
Time Delay	RKNA-	RXMD-B01	Yes
High Pressure	RKNA-	RXAB-A02	Yes
Low Pressure	RKNA-	RXAC-A02	Yes
Low Ambient Control to 0°F [-18°C]	RKNA-	RXRZ-A18	Yes
LP Conversion Kits for use with White Rodgers Gas Valve ①	RKNA-	RXGJ-EP84W	No
LP Conversion Kits for use with Honeywell Gas Valve ①	RKNA-	RXGJ-EP85H	No
Canadian High Altitude Kit (for Natural Gas Only) ①	RKNA-	RXRX-AH01	No

*Voltage J = 208/230 VAC-1PH-60HZ D = 460 VAC-3PH-60HZ
C = 208/230 VAC-3PH-60HZ

NOTES: ① If a particular unit is to be converted to operate on **LP (propane)** for elevations above 2000 ft. in Canada, the existing Natural Gas to LP Conversion Kits for the subject models already contain the necessary orifices and instructions to de-rate the input for 2000-4500 ft. Canadian applications.

② Economizer is designed for downflow or horizontal applications.

[ ] Designates Metric Conversions

THERMOSTATS

300-Series *
Deluxe Programmable

200-Series *
Programmable

100-Series *
Non-Programmable

400-Series *
Special Applications/Programmable

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

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

For detailed thermostat match-up information, see specification sheet form number T22-001.

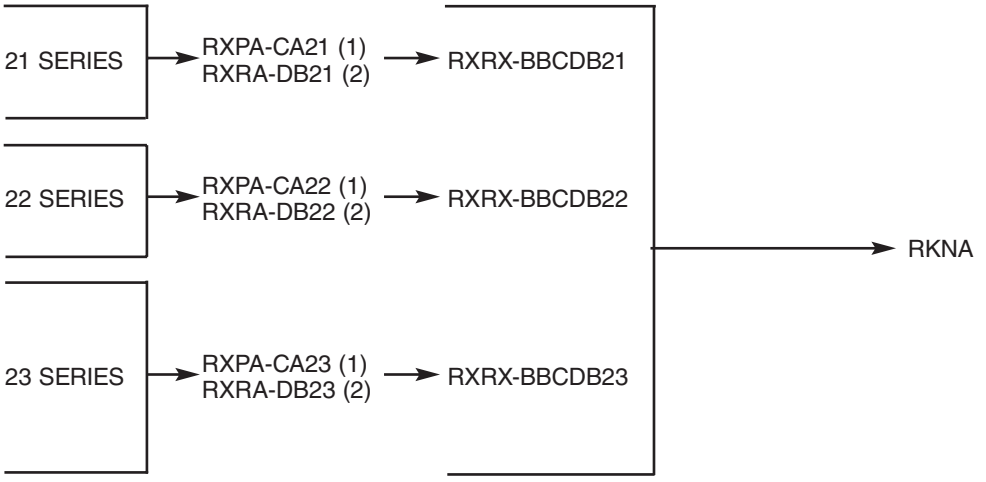
Roofcurb Adapters

Old Models

MEDIUM CABINET (3 TON [11 kW])
(-)SNC, (-)SND, (-)SNE
(-)RGE, (-)RGF, (-)RGG
(-)PNC, (-)PND

LARGE CABINET
(3-3 1/2 TON [11-12 kW])
(-)RGE, (-)RGF, (-)RGG,
(-)RGH (3 TON [11 kW])

EXTRA LARGE CABINET
(3 1/2-5 TON [12-18 kW])
(-)SNC, (-)SND, (-)SNE
(-)RGE, (-)RGF,
(-)RGG (4-5 TON [14-18 kW])
(-)PNC, (-)PND, (-)RGH
(3 1/2, 4 TON [12-14 kW])



(1) SLOPE TYPE (2) FULL PERIMETER TYPE

[ ] Designates Metric Conversions

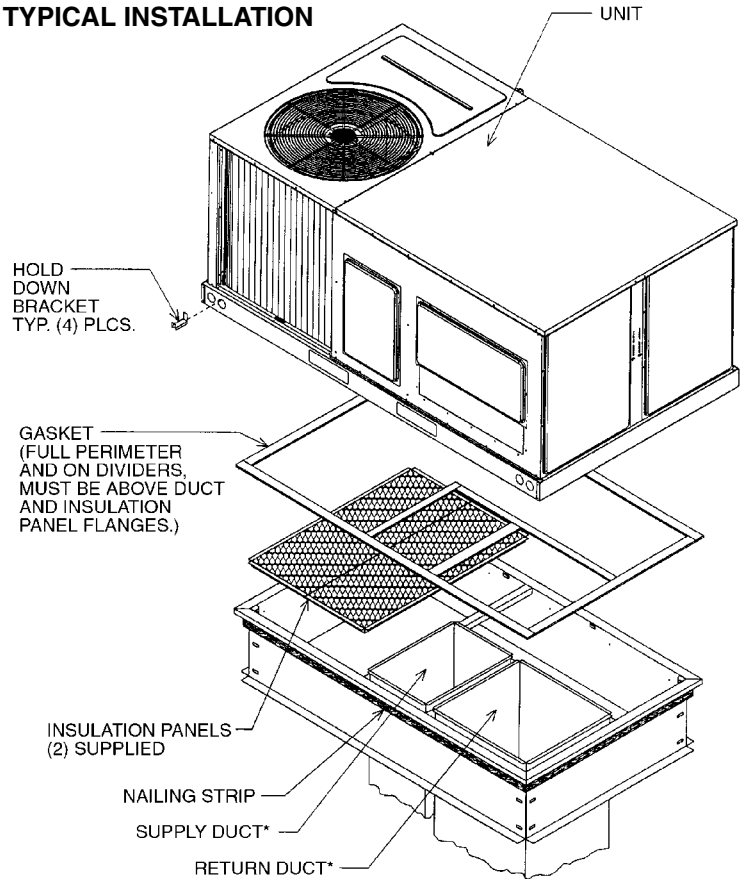
ROOFCURBS (Full Perimeter)

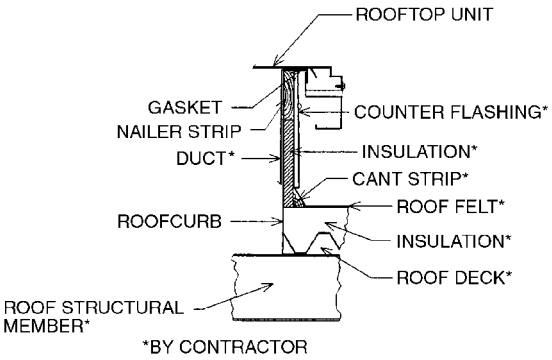
- Ruud's new roofcurb design can be utilized on 3 through 5 ton [10.6-17.6 kW] models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening 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.

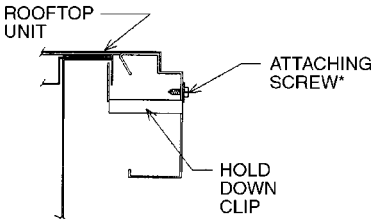
Roofcurb Model	Height of Curb
RXKG-CAD14	14" [356 mm]
RXKG-CAD24	24" [610 mm]

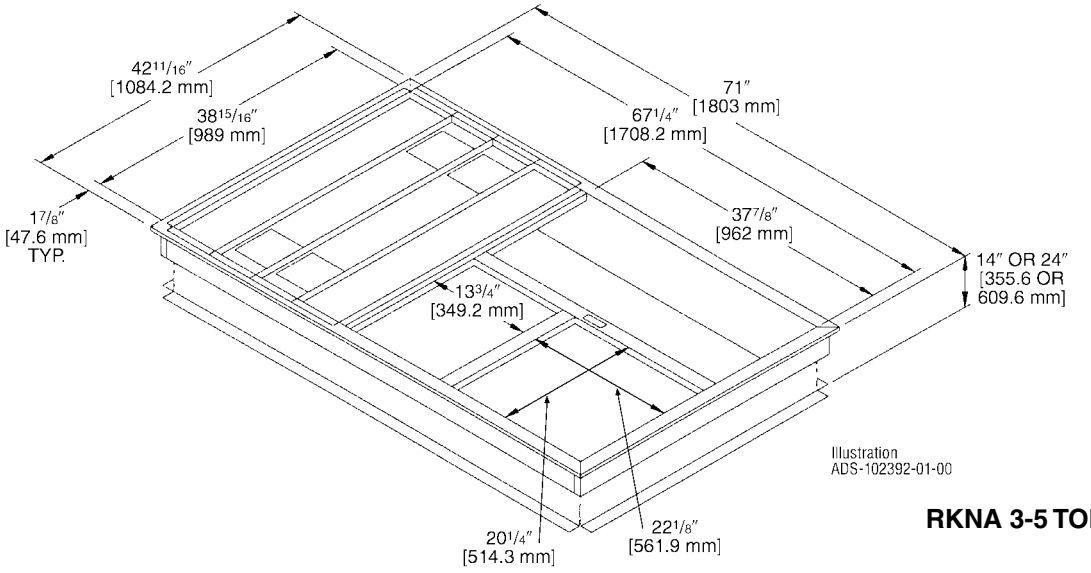
[ ] Designates Metric Conversions

TYPICAL INSTALLATION









ROOFCURB FOR RKNA 3-5 TON [10.6-17.6 kW] MODELS

ECONOMIZERS

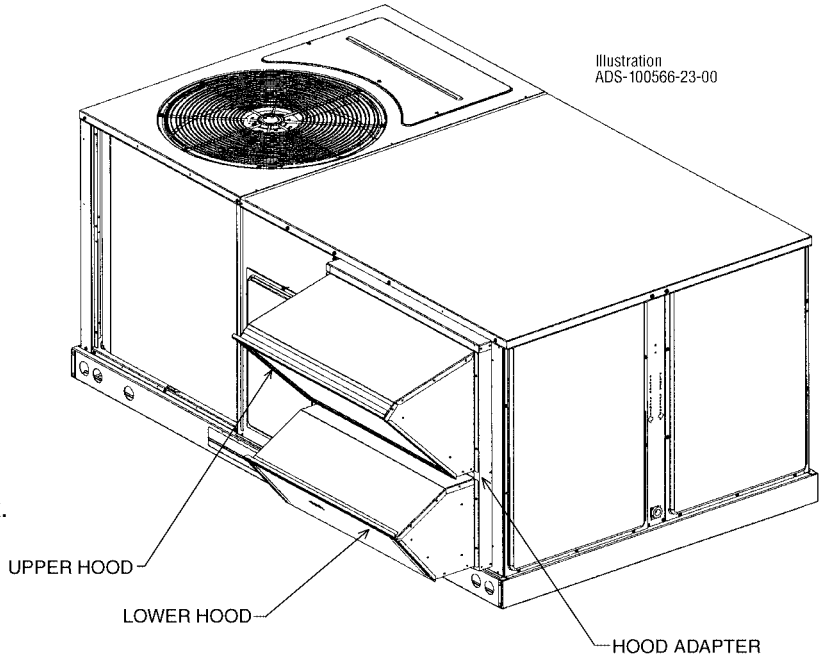
RXRD-MECM3—RKNA 3-5 Ton [10.6-17.6 kW] Models **Single Enthalpy (with Barometric Relief)**

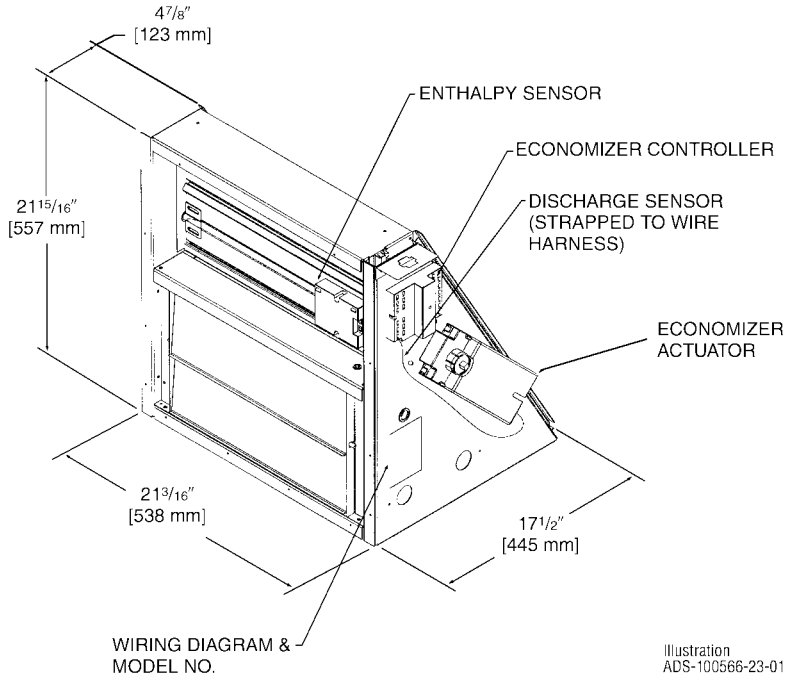
RXRX-AV02—3-5 Ton [10.6-17.6 kW] Models **Dual Enthalpy Kit**

RXRX-AR02—3-5 Ton [10.6-17.6 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 9-pin 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



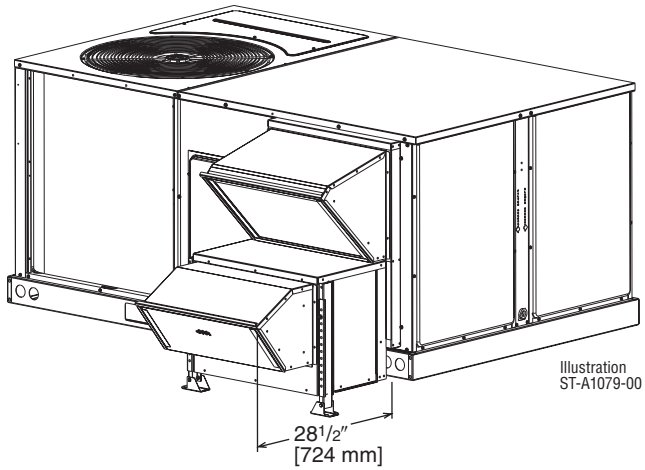


RKNA 3-5 Ton [10.6-17.6 kW] Models

INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

RXRX-BGF04C—RKNA 3-5 Ton [10.6-17.6 kW] Models
208-230V, 1 PH and 3 PH, 60 Hz
RXRX-BGF04D—RKNA 3-5 Ton [10.6-17.6 kW] Models
460V, 3 PH, 60 Hz
RXRX-BGF04Y—RKNA 3-5 Ton [10.6-17.6 kW] Models
575V, 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

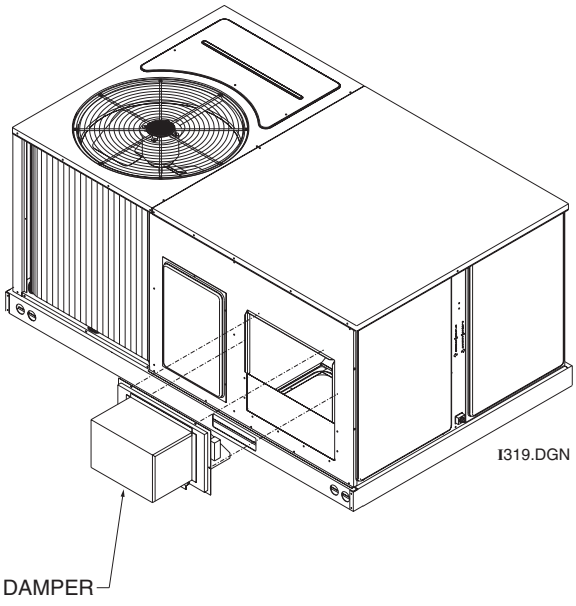
Model No.	No. of Fans	Volts	Phase	Watts (ea.)	High Speed		FLA (ea.)	LRA (ea.)
					CFM ①	RPM		
RXRX-BGF04C	1	208/230	1	1000	2500	1725	4.4	23.7
RXRX-BGF04D	1	460	1	800	2370	1620	1.8	4.1
RXRX-BGF04Y	1	575	1	800	2370	1620	1.5	3.3

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

FRESH AIR DAMPER

Shipping lbs [kg]	Operating lbs [kg]
70 [32]	67 [30]

RKNA 3-5 Ton [10.6-17.6 kW] Models
RXRF-FBA1 (Manual)
RXRF-FBB1 (Motorized)

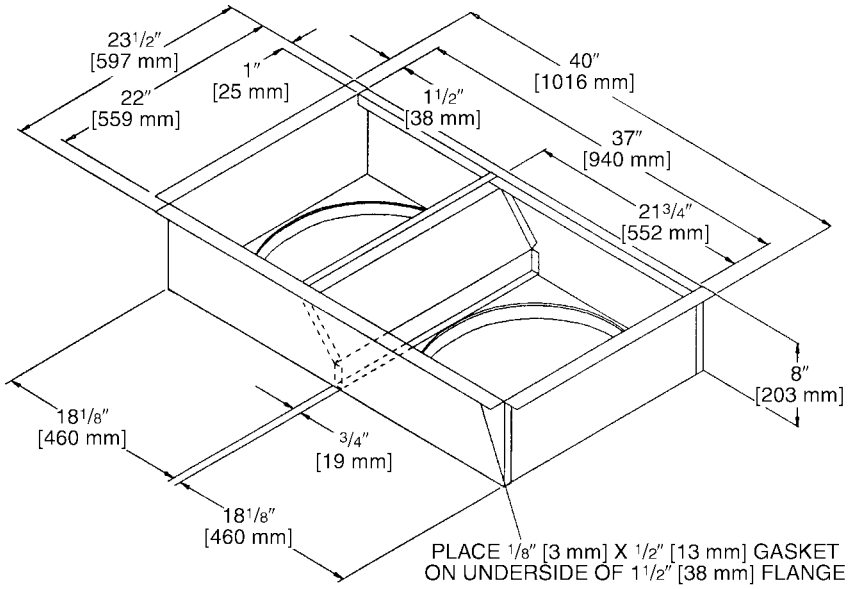


[ ] Designates Metric Conversions

DUCT ADAPTERS (RKNA 3-5 Ton [10.6-17.6 kW] Models)
Rectangular to Round Transitions (Downflow)

RXMC-CB03 sizes available
18" [457 mm] fit all units.
Drops into and secures to
RXKG- Series Roofcurbs.
For use with
Concentric Diffusers.

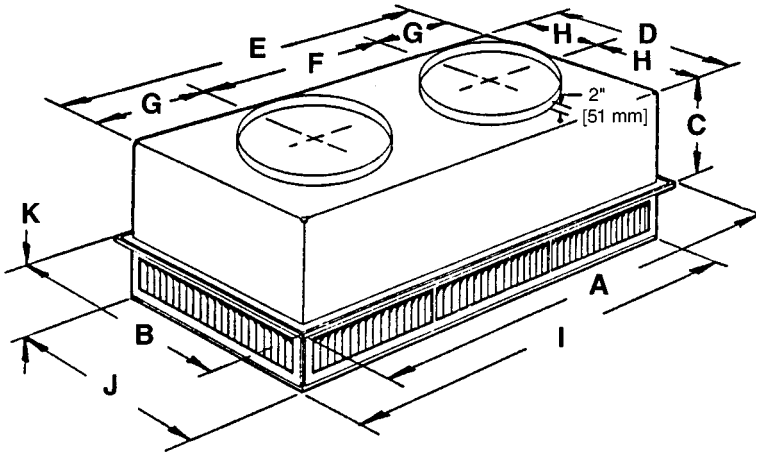
[ ] Designates Metric Conversions



SIDE DISCHARGE CONCENTRIC DIFFUSER

RXRN-FA60 (3 to 6 Ton [10.6 to 21.1 kW] Models)
RXRN-FA65 (3 to 7.5 Ton [10.6 to 26.4 kW] Models)

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	I	J	K	Duct Size
RXRN-FA60	47 5/8" [1210 mm]	23 5/8" [600 mm]	11 3/8" [289 mm]	21 1/2" [546 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	10 3/4" [273 mm]	45 1/2" [1156 mm]	21 1/2" [546 mm]	7 1/8" [181 mm]	18RD

ENGINEERING DATA

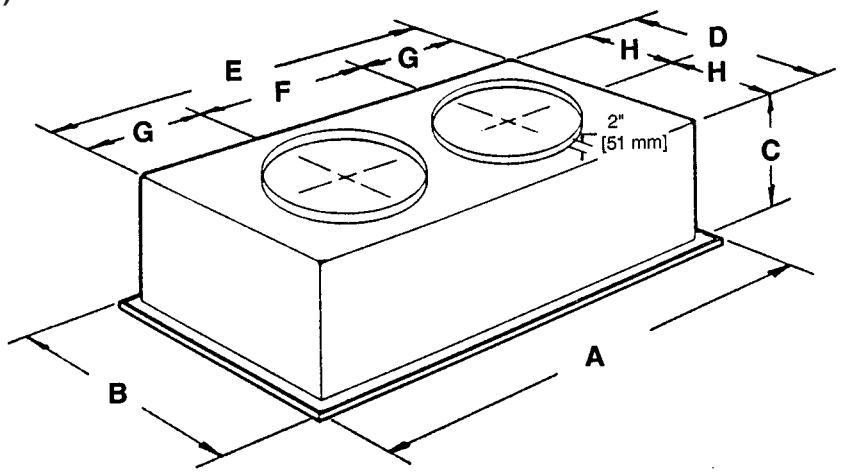
Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA60	1000 [472]	.14	10-17	351	351	20
	1200 [566]	.17	11-18	421	421	20
	1400 [661]	.20	12-19	491	491	20
	1600 [755]	.24	12-20	561	561	20
	1800 [850]	.30	13-21	632	632	20
	2000 [944]	.36	14-23	702	702	20
	2200 [1038]	.40	16-25	772	772	20

[ ] Designates Metric Conversions

FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA70 (3 to 6 Ton [10.6 to 21.1 kW] Models)
RXRN-FA75 (3 to 7.5 Ton [10.6 to 26.4 kW] Models)

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	Duct Size
RXRN-FA70	47 5/8" [1210 mm]	23 5/8" [600 mm]	13 1/2" [343 mm]	21" [533 mm]	45" [1143 mm]	22 1/2" [572 mm]	11 1/4" [286 mm]	10 1/2" [267 mm]	18RD

ENGINEERING DATA

Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA70	1000 [472]	.14	15-20	391	694	20
	1200 [566]	.17	16-22	469	833	25
	1400 [661]	.20	17-24	547	972	30
	1600 [755]	.24	18-25	625	1111	30
	1800 [850]	.30	20-28	703	1250	35
	2000 [944]	.36	21-29	781	1389	40
	2200 [1038]	.40	22-30	859	1528	40

[ ] Designates Metric Conversions

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 ARI 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.

HEATING SECTION
Heat exchanger shall be of the tubular type made of aluminized steel. Burners shall be of the in-shot type. Unit shall be equipped with an integrated direct spark ignition control board with built-in diagnostics feature. Safeties to include limit, lockout, and flame roll-out switches.

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. Shall be offered for both vertical and horizontal applications.

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.

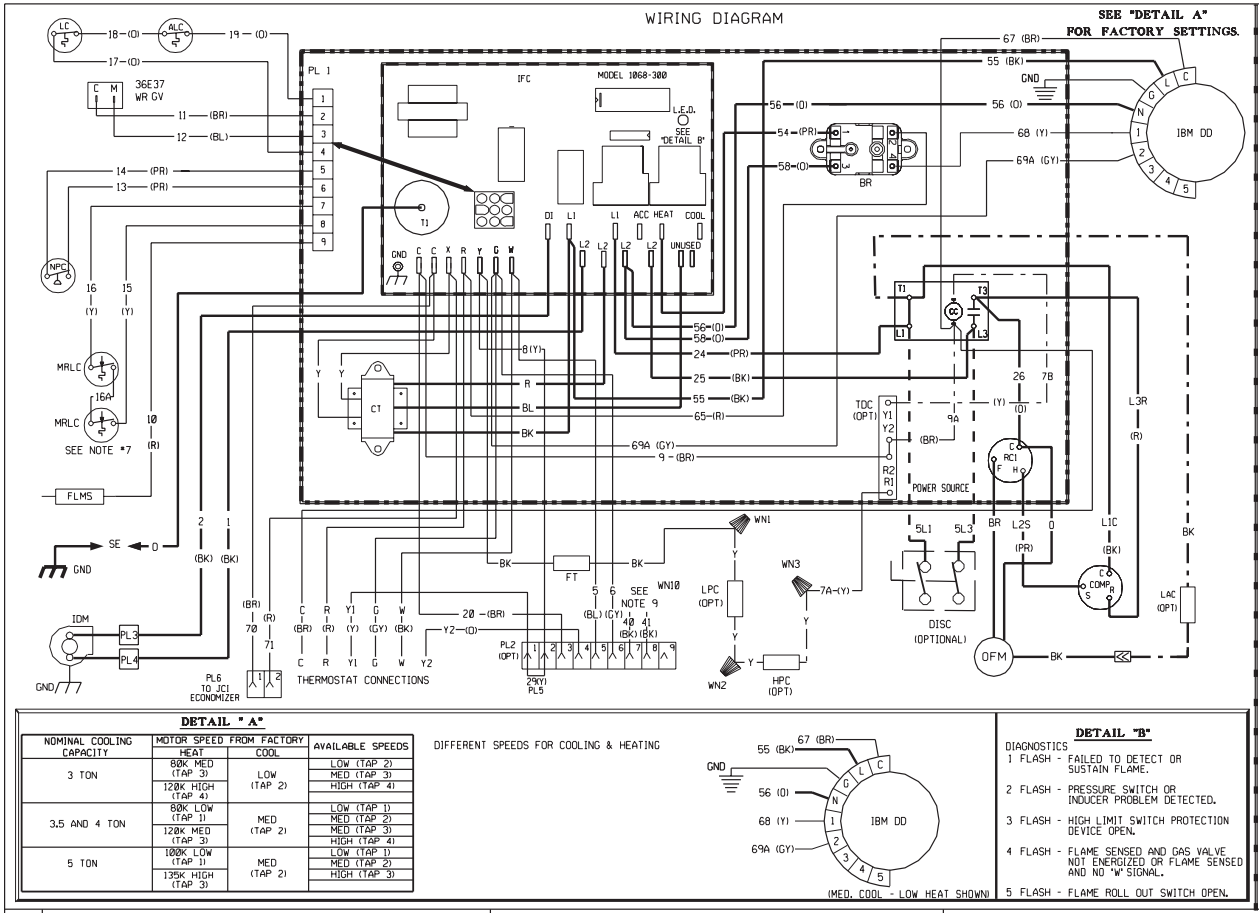
PRESSURE CONTROLS
High and low pressure controls shall be included for field or factory installation.

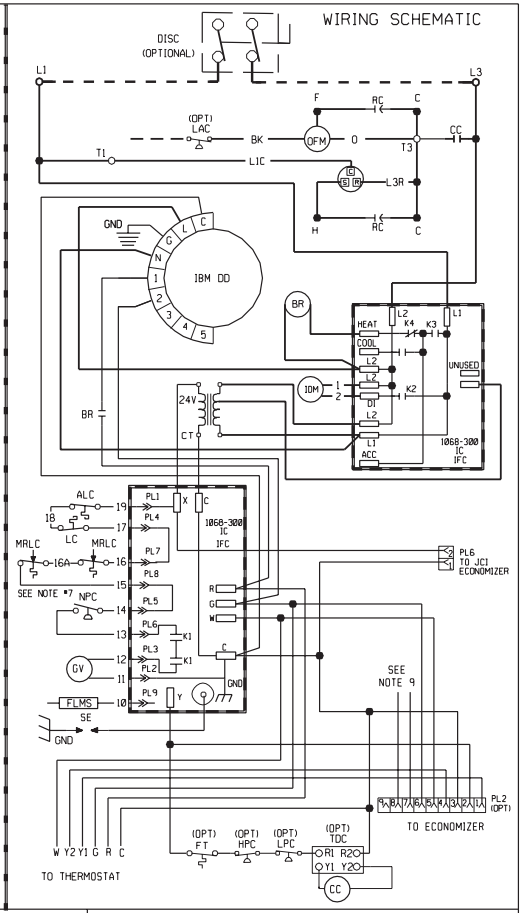
LOW AMBIENT CONTROL
Low ambient control shall be provided to cycle the condenser fan in response to condensing pressure and allow operation to 0 degrees F. The option shall be field or factory installed.

TIME DELAY CONTROL
Time delay control shall be provided to prevent the compressor from restarting 5 minutes after shutdown. The control 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.

[ ] Designates Metric Conversions





DETAIL "A"

NOMINAL COOLING CAPACITY	MOTOR SPEED FROM FACTORY HEAT	MOTOR SPEED FROM FACTORY COOL	AVAILABLE SPEEDS
3 TON	80K MED (TAP 3)	LOW (TAP 2)	LOW (TAP 2)
	120K HIGH (TAP 4)		MED (TAP 3)
			HIGH (TAP 4)
3.5 AND 4 TON	80K LOW (TAP 1)	MED (TAP 2)	LOW (TAP 1)
	120K MED (TAP 3)		MED (TAP 2)
			MED (TAP 3)
			HIGH (TAP 4)
5 TON	100K LOW (TAP 1)	MED (TAP 2)	LOW (TAP 1)
	135K HIGH (TAP 3)		MED (TAP 2)
			HIGH (TAP 3)

DIFFERENT SPEEDS FOR COOLING & HEATING

DETAIL "B"

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.

COMPONENT CODE

ALC	AUX. LIMIT CONTROL	MRLC	MANUAL RESET LIMIT CONTROL
BR	BLOWER RELAY	NPC	NEGATIVE PRESSURE CONTROL
CC	COMPRESSOR CONTACTOR	OFM	OUTDOOR FAN MOTOR
COMP	COMPRESSOR	PL	PLUG
CT	CONTROL TRANSFORMER	RC	RUN CAPACITOR
DISC	DISCONNECT SWITCH	SE	SPARK ELECTRODE
FLMS	FLAME SENSOR	TDC	TIME DELAY CONTROL
FT	FREEZE STAT	WN	WIRE NUT
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		

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 PRIMARY LEADS: RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V 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 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

WIRING INFORMATION

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

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

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

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

WIRE COLOR CODE

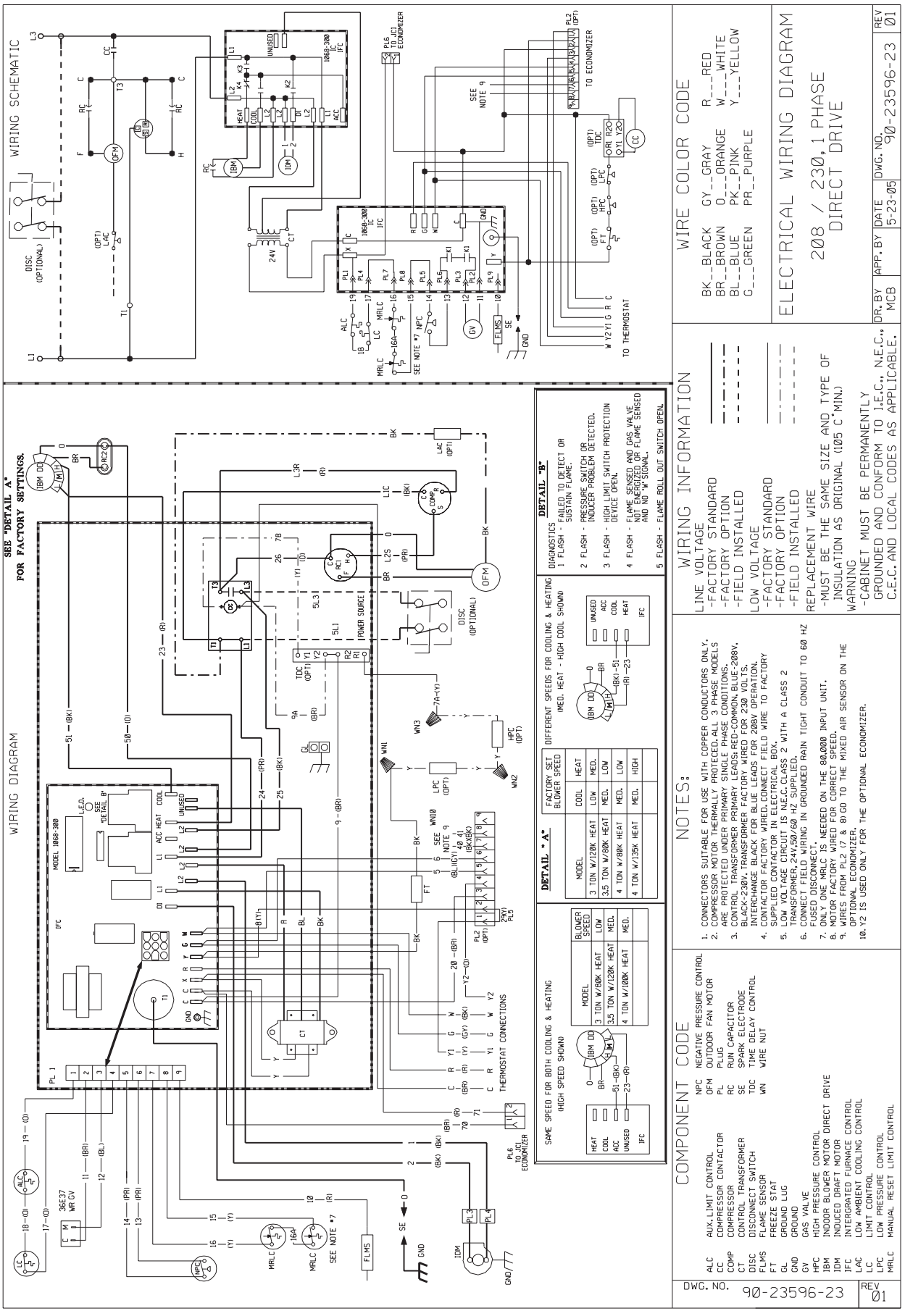
BK__BLACK	GY__GRAY	R___RED
BR__BROWN	O___ORANGE	W___WHITE
BL__BLUE	PK__PINK	Y___YELLOW
G___GREEN	PR__PURPLE	

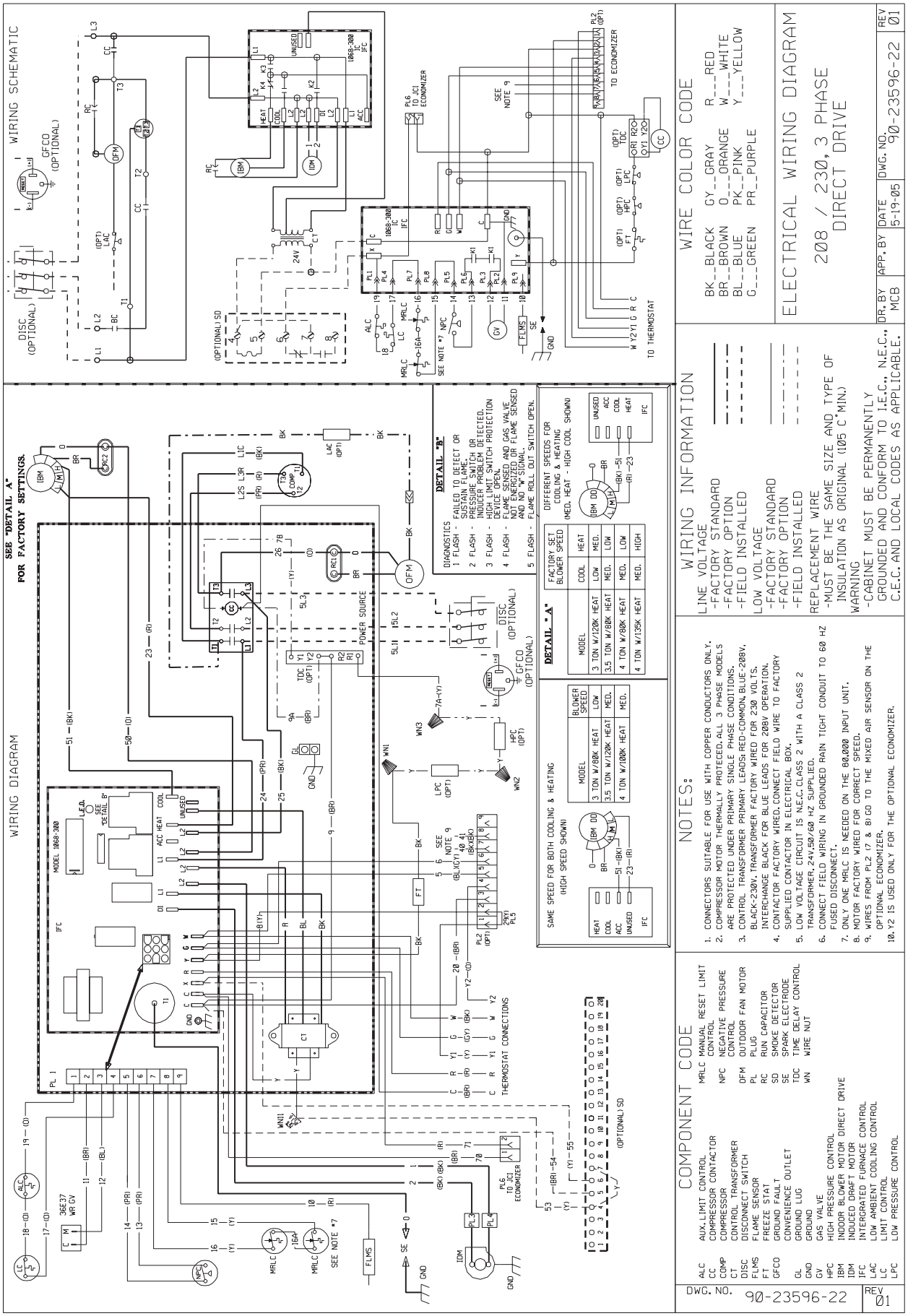
ELECTRICAL WIRING DIAGRAM

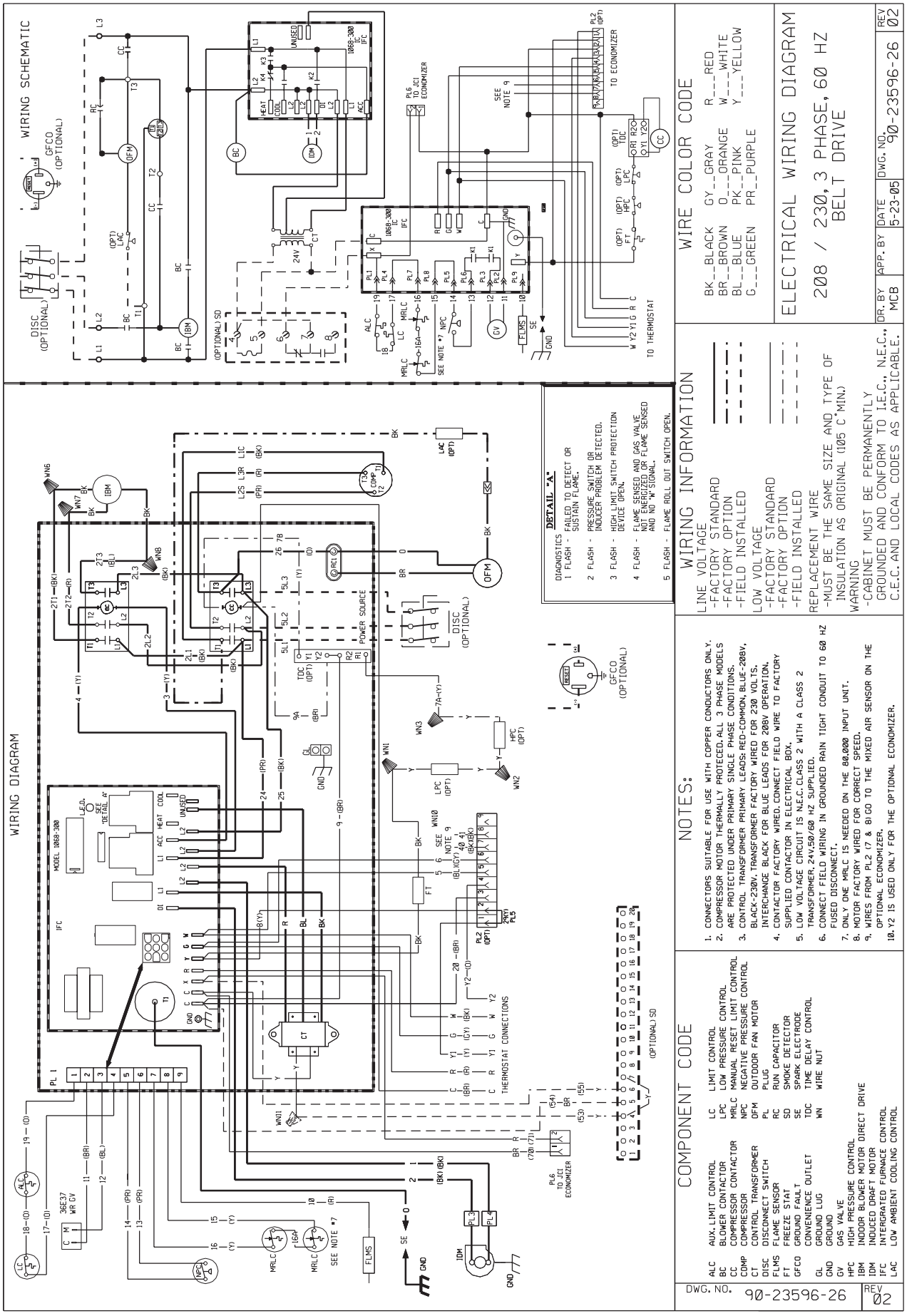
208 / 230, 1 PHASE
DIRECT DRIVE w/ X-MOTOR

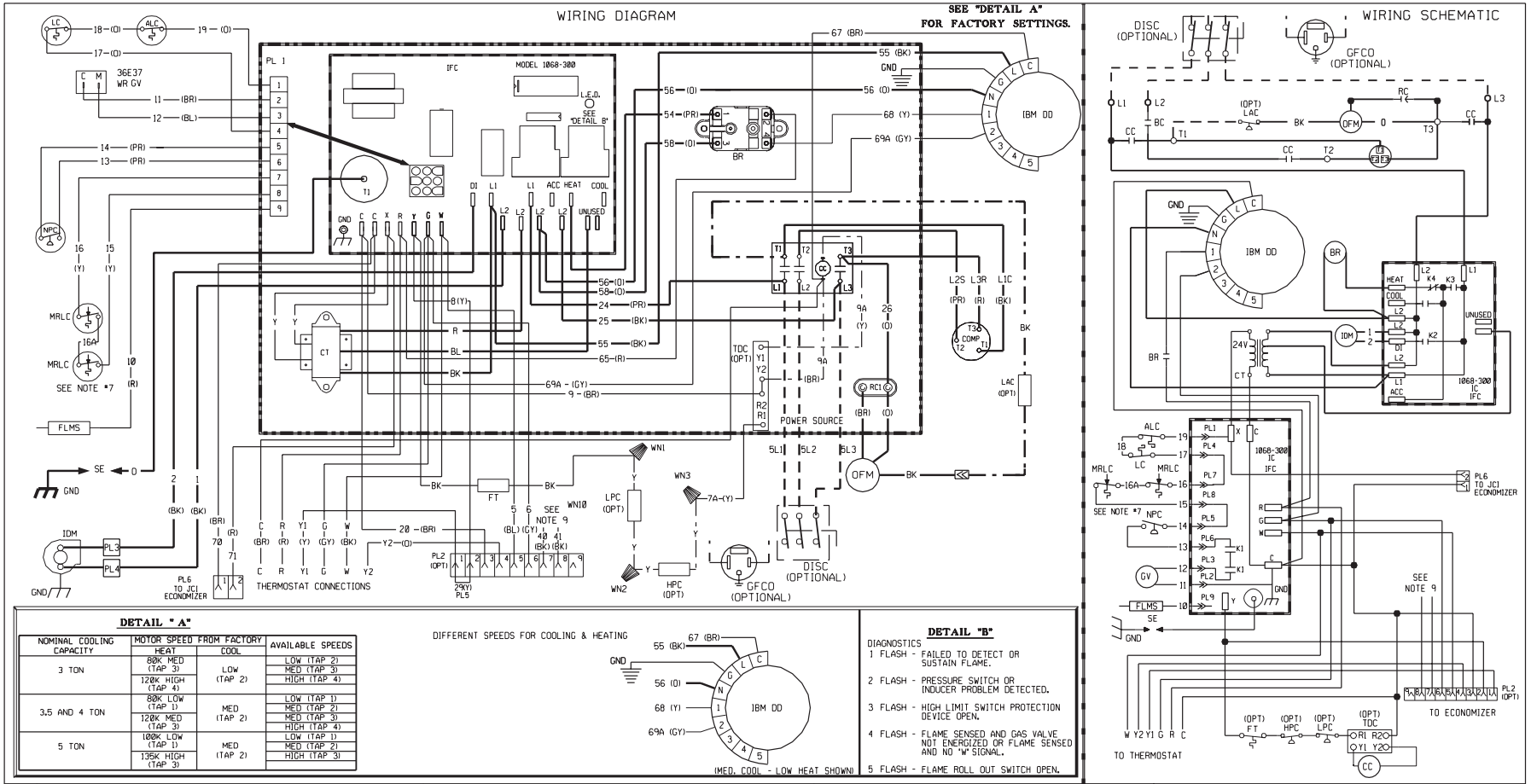
DR. BY	APP. BY	DATE	DWG. NO.	REV
MCB		5-5-05	90-23596-21	05

DWG. NO. 90-23596-21 REV 05


WIRING SCHEMATIC
WIRING DIAGRAM
SEE "DETAIL A" FOR FACTORY SETTINGS.
COMPONENT CODE
ALC AUX.LIMIT CONTROL
CC COMPRESSOR CONTACTOR
COMP COMPRESSOR
CT CONTROL TRANSFORMER
DISC DISCONNECT SWITCH
FLMS FLAME SENSOR
FT FREEZE STAT
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
SE SPARK ELECTRODE
TDC TIME DELAY CONTROL
WN WIRE NUT
NOTES:
1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. CONTROL TRANSFORMER PRIMARY LEADS: RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V 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 DISCONNECT.
7. ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
8. MOTOR FACTORY WIRED FOR CORRECT SPEED.
9. WIRES FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.
WIRING INFORMATION
LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED
LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED
REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C MIN.)
WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.
WIRE COLOR CODE
BK--BLACK GY--GRAY R--RED
BR--BROWN O--ORANGE W---WHITE
BL--BLUE PK--PINK Y---YELLOW
G---GREEN PR--PURPLE
ELECTRICAL WIRING DIAGRAM
208 / 230, 1 PHASE
DIRECT DRIVE
DR. BY MCB
APP. BY
DATE 5-23-05
DWG. NO. 90-23596-23
REV 01
DWG. NO. 90-23596-23
REV 01


WIRING SCHEMATIC
WIRING DIAGRAM
SEE "DETAIL A" FOR FACTORY SETTINGS.
DETAIL "A"
DETAIL "B"
NOTES:
COMPONENT CODE
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., AND C.E.C. AND LOCAL CODES AS APPLICABLE.
ELECTRICAL WIRING DIAGRAM
208 / 230, 3 PHASE
DIRECT DRIVE
DWG. NO. 90-23596-22
REV 01


WIRING SCHEMATIC
WIRING DIAGRAM
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 PRIMARY LEADS: RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V 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 88,000 INPUT UNIT.
8. MOTOR FACTORY WIRED FOR CORRECT SPEED.
9. WIRES FROM PL2 (7 & 8) GO 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
GL CONVENIENCE OUTLET
GND GROUND LUG
GV GROUND
HPC GAS VALVE
IBM HIGH PRESSURE CONTROL
IDM INDOOR BLOWER MOTOR DIRECT DRIVE
IFC INDUCED DRAFT MOTOR
LAC INTERGRATED FURNACE CONTROL
LC LOW AMBIENT COOLING CONTROL
LPC LIMIT CONTROL
MRLC LOW PRESSURE CONTROL
NPC MANUAL RESET LIMIT CONTROL
OFM NEGATIVE PRESSURE CONTROL
PL PLUG
RC RUN CAPACITOR
SD SMOKE DETECTOR
SE SPARK ELECTRODE
TDC TIME DELAY CONTROL
WN WIRE NUT
DWG. NO. 90-23596-26
REV 02
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.
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.
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
ELECTRICAL WIRING DIAGRAM
208 / 230, 3 PHASE, 60 HZ
BELT DRIVE
DR. BY MCB
APP. BY
DATE 5-23-05
DWG. NO. 90-23596-26
REV 02



DETAIL "A"

NOMINAL COOLING CAPACITY	MOTOR SPEED FROM FACTORY HEAT	COOL	AVAILABLE SPEEDS
3 TON	80K MED (TAP 3)	LOW (TAP 2)	LOW (TAP 2)
	120K HIGH (TAP 4)		MED (TAP 3)
			HIGH (TAP 4)
3.5 AND 4 TON	80K LOW (TAP 1)	MED (TAP 2)	LOW (TAP 1)
	120K MED (TAP 3)		MED (TAP 2)
			MED (TAP 3)
			HIGH (TAP 4)
5 TON	100K LOW (TAP 1)	MED (TAP 2)	LOW (TAP 1)
	135K HIGH (TAP 3)		MED (TAP 2)
			HIGH (TAP 3)

DIFFERENT SPEEDS FOR COOLING & HEATING

DETAIL "B"

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.

COMPONENT CODE

ALC	AUX. LIMIT CONTROL	NPC	NEGATIVE PRESSURE CONTROL
BR	BLOWER RELAY	OFM	OUTDOOR FAN MOTOR
CC	COMPRESSOR CONTACTOR	PL	PLUG
COMP	COMPRESSOR	RC	RUN CAPACITOR
CT	CONTROL TRANSFORMER	SE	SPARK ELECTRODE
FLMS	FLAME SENSOR	TDC	TIME DELAY CONTROL
FT	FREEZE STAT	WN	WIRE NUT
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		

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 PRIMARY LEADS: RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V 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 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

WIRING INFORMATION

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

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

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

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

WIRE COLOR CODE

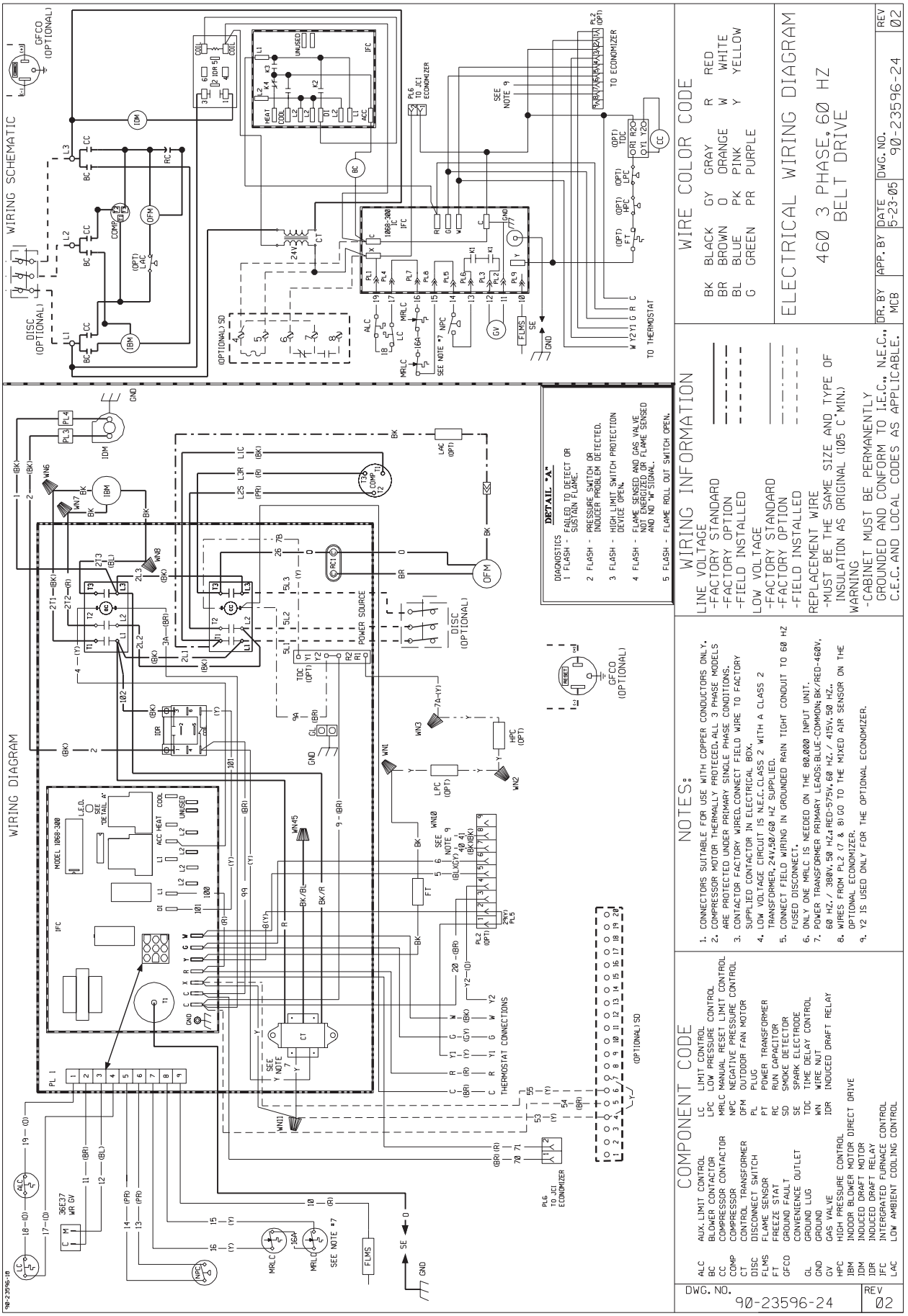
BK__BLACK	GY__GRAY	R___RED
BR__BROWN	O___ORANGE	W___WHITE
BL__BLUE	PK__PINK	Y___YELLOW
G___GREEN	PR__PURPLE	

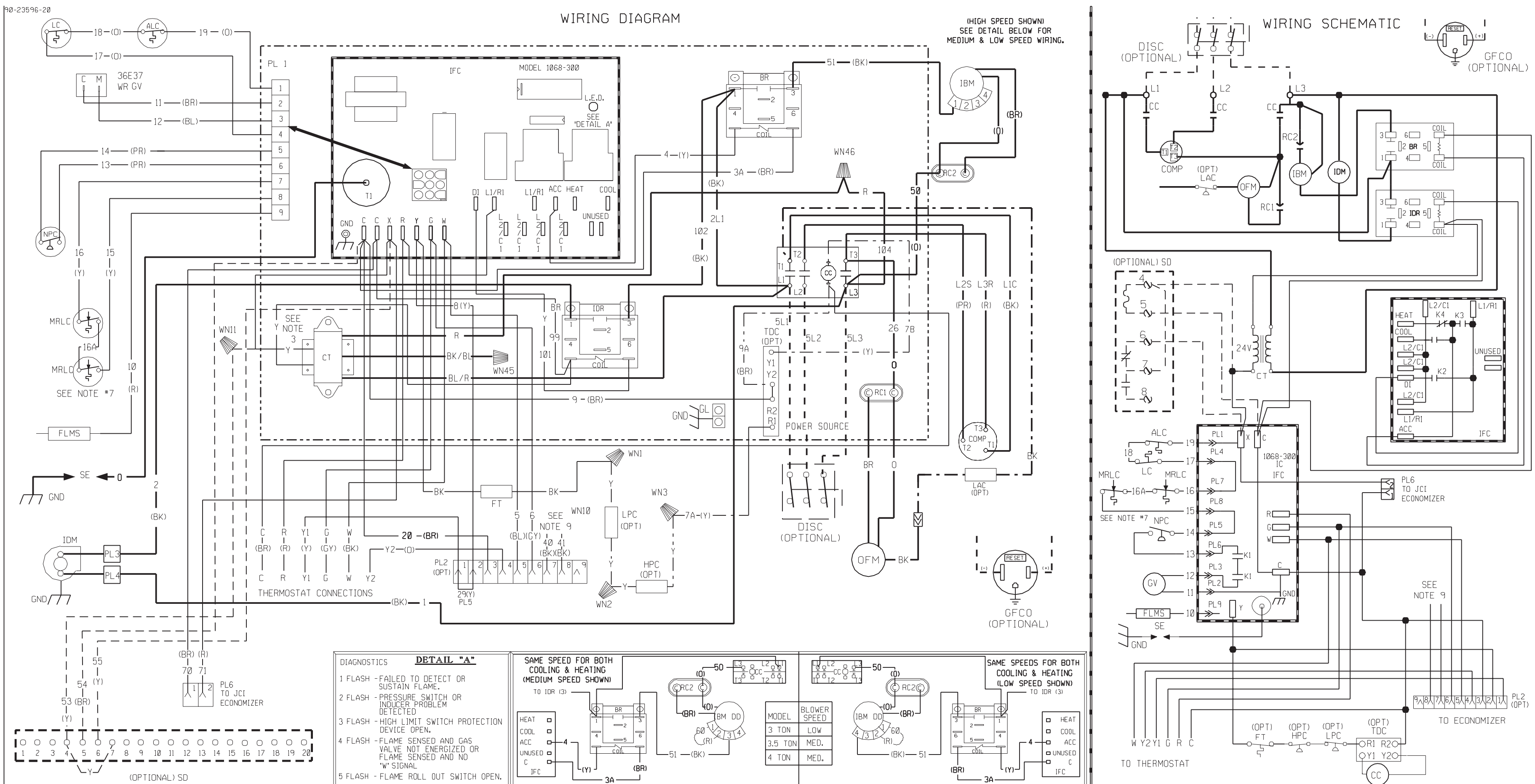
ELECTRICAL WIRING DIAGRAM

208 / 230, 3 PHASE DIRECT DRIVE w/ X-MOTOR

DR. BY	APP. BY	DATE	DWG. NO.	REV
MCB		6-16-05	90-23596-27	04

DWG. NO. 90-23596-27 REV 04


WIRING SCHEMATIC
WIRING DIAGRAM
ELECTRICAL WIRING DIAGRAM
460 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.
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. POWER TRANSFORMER PRIMARY LEADS:BLUE-COMMON;BK/RED-460V, 60 HZ./ 380V,50 HZ.RED-575V,60 HZ./ 415V,50 HZ.
8. WIRES FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
9. 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
DR. BY MCB
APP. BY
DATE 5-23-05
DWG. NO. 90-23596-24
REV 02
DWG. NO. 90-23596-24
REV 02



COMPONENT CODE			
ALC	AUX. LIMIT CONTROL	LC	LIMIT CONTROL
BC	BLOWER CONTACTOR	LPC	LOW PRESSURE CONTROL
CC	COMPRESSOR CONTACTOR	MRLC	MANUAL RESET LIMIT CONTROL
COMP	COMPRESSOR	NPC	NEGATIVE PRESSURE CONTROL
CT	CONTROL TRANSFORMER	OFM	OUTDOOR FAN MOTOR
DISC	DISCONNECT SWITCH	PL	PLUG
FLMS	FLAME SENSOR	PT	POWER TRANSFORMER
FT	FREEZE STAT	RC	RUN CAPACITOR
GFCO	GROUND FAULT CONVENIENCE OUTLET	SD	SMOKE DETECTOR
		SE	SPARK ELECTRODE
GL	GROUND LUG	TDC	TIME DELAY CONTROL
GND	GROUND	WN	WIRE NUT
GV	GAS VALVE		
HPC	HIGH PRESSURE CONTROL		
IBM	INDOOR BLOWER MOTOR DIRECT DRIVE		
IDM	INDUCED DRAFT MOTOR		
IDR	INDUCER DRAFT RELAY		
IFC	INTERGRATED FURNACE CONTROL		
LAC	LOW AMBIENT COOLING CONTROL		

DWG. NO. 90-23596-25 REV 02

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. POWER TRANSFORMER PRIMARY LEADS: BLUE-COMMON; BK/RED-460V, 60 HZ. / 380V, 50 HZ.; RED-575V, 60 HZ. / 415V, 50 HZ..
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. WIRES FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
8. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

WIRING INFORMATION

LINE VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

LOW VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

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

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

WIRE COLOR CODE

BK__BLACK	GY__GRAY	R___RED
BR__BROWN	O___ORANGE	W___WHITE
BL__BLUE	PK__PINK	Y___YELLOW
G___GREEN	PR__PURPLE	

ELECTRICAL WIRING DIAGRAM

460, 3 PHASE, 60 HZ
DIRECT DRIVE
ROOFTOP

DR. BY	APP. BY	DATE	DWG. NO.	REV
MCB		5-23-05	90-23596-25	02

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

GENERAL TERMS OF LIMITED WARRANTY

Ruud 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.

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

Heat Exchanger
- Factory Standard .....Ten (10) Years
- Stainless Steel/1-Phase Models/ Residential Applications .....Limited Lifetime
- Stainless Steel/1-Phase & 3-Phase Models/ Commercial Applications .....Twenty (20) Years

Compressor.....Five (5) Years

Any Other Part
- 1-Phase Models .....Five (5) Years
- 3-Phase Models .....One (1) Year

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.

Ruud Heating, Cooling and Water Heating

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

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

PRINTED IN U.S.A. 4-08 DC

FORM NO. R22-837 REV. 4
Supersedes Form No. R22-837 Rev. 3