



# PACKAGE HEAT PUMPS

FORM NO. P11-764 REV. 4  
Supersedes Form No. P11-764 Rev. 3

## RQNA- HIGH EFFICIENCY 13-SEER SERIES NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

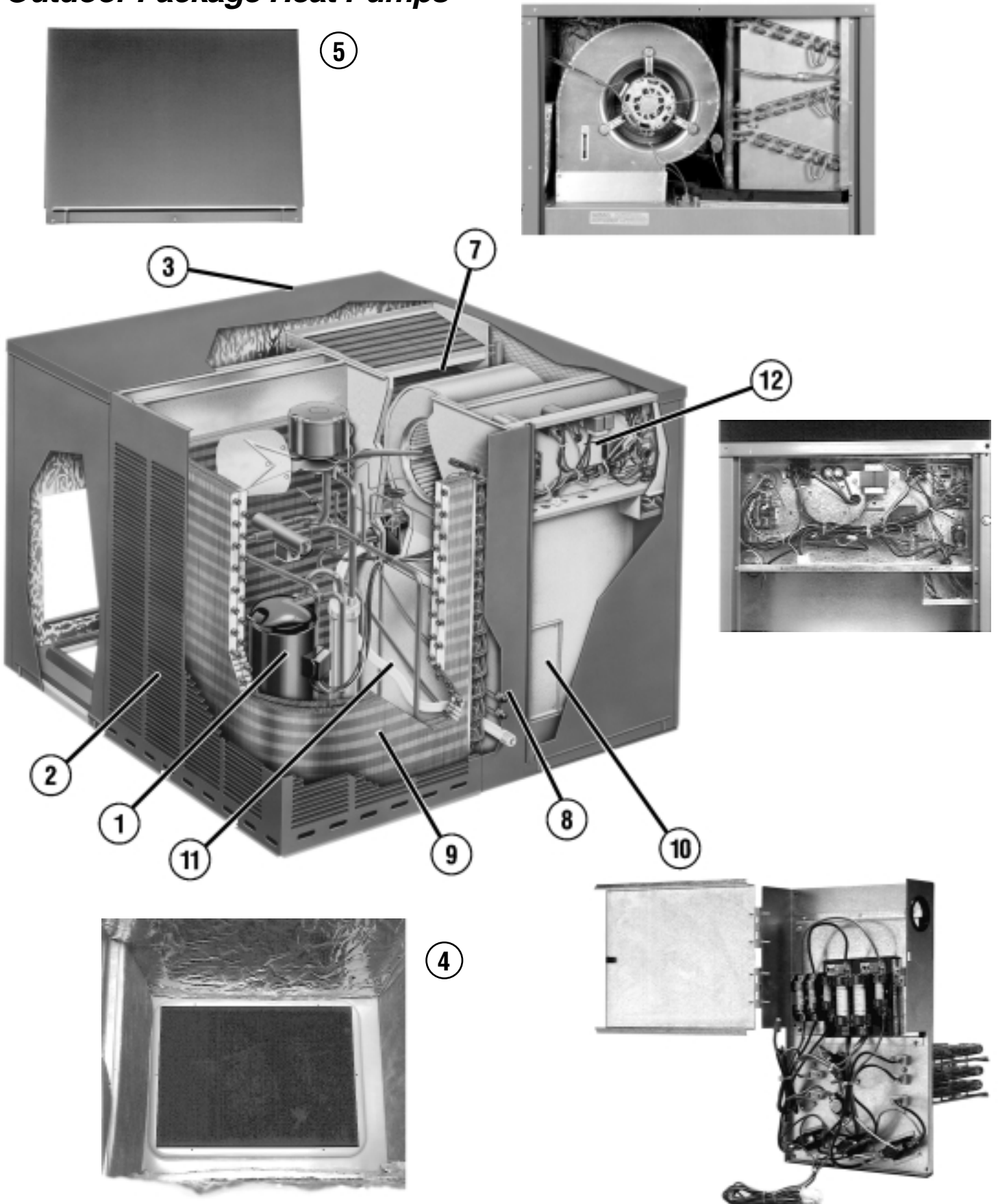




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*These quality features are included in the Rheem Outdoor Package Heat Pumps*





## Features Below Correspond to Photos on Page 3

1. All models feature Scroll® compressors for maximum efficiency and quiet operation.
2. Louvered condenser compartment for protecting the coil against yard hazards and/or weather extremes.
3. One-piece top with a deep flange to help keep water out of the unit.
4. Supply and return air openings feature a one-inch tall flange to prevent water migration into the ductwork.
5. Access panels have “weep holes” and channels to further help manage water run-off.
6. Side and down discharge options available on all models. (Shipped Downflow Standard).
7. Easily accessible blower section complete with slide-out blower. All units feature a system matched indoor coil with low static pressure drop and excellent cooling capacities.
8. Refrigerant connections are conveniently located for easy service diagnostics.
9. Condenser and evaporator coils feature enhanced fins for better heat transfer and rifled copper tubing for greater efficiency.
10. Supplemental electric heat strips up to 15 kW are available (field or factory installed) for periods of extreme cold temperatures. Single point wiring makes installation even easier.
11. All units feature an internal trap on the condensate line eliminating the need for installing an on-site external trap.
12. Easily accessible control box.



# MODEL IDENTIFICATION—RQNA- SERIES



**R Q N A — 036 J K 000 XXX**

Factory Installed Options  
(See Next Page)

Heating Capacity (Factory Installed)  
000 = No Resistance Heat  
005 = 05 KW Resistance Heat (018-030)  
010 = 10 KW Resistance Heat (024-048)  
015 = 15 KW Resistance Heat (036-048)

Drive Package  
K = Direct Drive

Electrical Designation  
J = 208-230V—1PH—60 Hz  
C = 208-230V—3PH—60 Hz

Cooling Capacity (BTUH) [kW]  
024 = 24,000 [7.03]  
030 = 30,000 [8.79]  
036 = 36,000 [10.55]  
042 = 42,000 [12.31]  
048 = 48,000 [14.07]

Design Series  
A = 1st Design

Efficiency Designation  
N = 13 SEER High Efficiency

Product Classification  
Q = Package Heat Pump

Tradebrand  
R = Rheem

[ ] Designates Metric Conversions



## Instructions for Factory Installed Option(s) Selection

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

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

## FACTORY INSTALLED OPTION CODES

Option Code	Side Flow
AA	No Option
AKA	x

Example: RQNA-036JK000**XX** (where **XX** is factory installed option)

Example: No Options

RQNA-036JK000

Example: Options with Sideflow

RQNA-036JK000AKA

Note: Factory installed economizer is not available on these models.



**NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]**

Model RQNA- Series	B024JK	B030JK	B036CK	B036JK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED →</b>
Gross Cooling Capacity Btu [kW]	24,400 [7.15]	31,400 [9.2]	36,600 [10.72]	36,600 [10.72]
EER/SEER <sup>2</sup>	11/13	11/13	11/13	11/13
Nominal CFM/ARI Rated CFM [L/s]	800/800 [378/378]	1000/1050 [472/495]	1200/1200 [566/566]	1200/1200 [566/566]
ARI Net Cooling Capacity Btu [kW]	23,600 [6.91]	30,200 [8.85]	35,400 [10.37]	35,400 [10.37]
Net Sensible Capacity Btu [kW]	17,900 [5.24]	22,100 [6.48]	26,300 [7.71]	26,300 [7.71]
Net Latent Capacity Btu [kW]	5,700 [1.67]	8,100 [2.37]	9,100 [2.67]	9,100 [2.67]
Net System Power kW	2.14	2.74	3.22	3.22
<b>Heating Performance (Heat Pumps)</b>				
Heating Input Btu [kW] Rating	23,000 [6.74]	29,000 [8.5]	34,200 [10.02]	34,200 [10.02]
System Power KW/COP	1.95/3.4	2.44/3.4	2.91/3.4	2.91/3.4
Low Temp. Btuh [kW] Rating	12,900 [3.78]	16,100 [4.72]	19,500 [5.71]	19,500 [5.71]
System Power KW/COP	1.89/2	2.29/2	2.72/2.1	2.72/2.1
HSPF (Btu/Watts-hr)	7.7	7.7	7.7	7.7
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	76	76	76	76
<b>Outdoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	14.51 [1.35]	16.32 [1.52]	11.2 [1.04]	11.2 [1.04]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.54 [0.51]	7.39 [0.69]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	2700 [1274]	2700 [1274]	2700 [1274]	2700 [1274]
No. Motors/HP	1 at 1/5 HP	1 at 1/5 HP	1 at 1/5 HP	1 at 1/5 HP
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan—Type</b>				
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/9x7 [228.6x177.8]	1/10x9 [254x228.6]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/3	Direct/1	Direct/1
No. Motors	1	1	1	1
Motor HP	1/4	1/2	1/3	1/3
Motor RPM	1075	1075	1075	1075
Motor Frame Size	48	48	48	48
<b>Filter—Type</b>				
Field Supplied	Field Supplied	Field Supplied	Field Supplied	Field Supplied
Furnished	No	No	No	No
(No.) Size Recommended in. [mm]	(1)1x20x20 [25x508x508]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
<b>Refrigerant Charge Oz. [g]</b>				
	86 [2438]	93 [2637]	122 [3459]	122 [3459]
<b>Weights</b>				
Net Weight lbs. [kg]	391 [177]	444 [201]	471 [214]	468 [212]
Ship Weight lbs. [kg]	401 [182]	455 [206]	482 [219]	479 [217]

See Page 9 for Notes.

[ ] Designates Metric Conversions



## NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

Model RQNA- Series	B042CK	B042JK	B048CK	B048JK
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	44,500 [13.04]	44,500 [13.04]	50,000 [14.65]	50,000 [14.65]
EER/SEER <sup>2</sup>	11/13	11/13	11/13	11/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1400 [661/661]	1400/1400 [661/661]	1600/1600 [755/755]	1600/1600 [755/755]
ARI Net Cooling Capacity Btu [kW]	43,500 [12.75]	43,500 [12.75]	48,500 [14.21]	48,500 [14.21]
Net Sensible Capacity Btu [kW]	31,800 [9.32]	31,800 [9.32]	36,000 [10.55]	36,000 [10.55]
Net Latent Capacity Btu [kW]	11,700 [3.43]	11,700 [3.43]	12,500 [3.66]	12,500 [3.66]
Net System Power kW	3.96	3.96	4.41	4.41
<b>Heating Performance (Heat Pumps)</b>				
Heating Input Btu [kW] Rating	39,500 [11.57]	39,500 [11.57]	46,000 [13.48]	46,000 [13.48]
System Power KW/COP	3.34/3.4	3.34/3.4	4.11/3.28	4.11/3.28
Low Temp. Btuh [kW] Rating	22,800 [6.68]	22,800 [6.68]	27,400 [8.03]	28,000 [8.2]
System Power KW/COP	3.18/2.1	3.18/2.1	3.86/2.08	3.86/2.08
HSPF (Btu/Watts-hr)	7.7	7.7	7.7	7.7
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>				
	76	76	78	78
<b>Outdoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.32 [1.52]	16.32 [1.52]	16.32 [1.52]	16.32 [1.52]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil—Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	7.39 [0.69]	7.39 [0.69]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3300 [1557]	3300 [1557]	3000 [1416]	3000 [1416]
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
<b>Indoor Fan—Type</b>				
FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x9 [254x228.6]	1/10x9 [254x228.6]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/2	Direct/2	Direct/2
No. Motors	1	1	1	1
Motor HP	3/4	3/4	3/4	3/4
Motor RPM	1075	1075	1725	1075
Motor Frame Size	48	48	48	48
<b>Filter—Type</b>				
Field Supplied	Field Supplied	Field Supplied	Field Supplied	Field Supplied
Furnished	No	No	No	No
(No.) Size Recommended in. [mm]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
<b>Refrigerant Charge Oz. [g]</b>				
	158 [4479]	158 [4479]	150 [4252]	150 [4252]
<b>Weights</b>				
Net Weight lbs. [kg]	508 [230]	505 [229]	500 [227]	510 [231]
Ship Weight lbs. [kg]	519 [235]	516 [234]	511 [232]	521 [236]

See Page 9 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 in CFM range shown in airflow tables. 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. Outdoor Sound Rating shown is tested in accordance with ARI Standard 270.



## COOLING PERFORMANCE DATA—RQNA-024

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		900 [425]	800 [378]	700 [330]	900 [425]	800 [378]	700 [330]	900 [425]	800 [378]	700 [330]	
		CFM [L/s]									
		DR ①	.19	.16	.11	.19	.16	.11	.19	.16	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	31.4 [9.20] 18.2 [5.33] 1.6	30.7 [9.00] 17.2 [5.04] 1.5	30.0 [8.79] 16.2 [4.75] 1.5	29.1 [8.53] 21.6 [6.33] 1.6	28.4 [8.32] 20.4 [5.98] 1.5	27.8 [8.15] 19.2 [5.63] 1.5	28.6 [8.38] 23.3 [6.83] 1.5	28.0 [8.21] 22.0 [6.45] 1.5	27.4 [8.03] 20.7 [6.07] 1.5
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	30.5 [8.94] 18.0 [5.28] 1.6	29.8 [8.73] 17.0 [4.98] 1.6	29.2 [8.56] 16.0 [4.69] 1.6	28.2 [8.26] 21.4 [6.27] 1.6	27.6 [8.09] 20.2 [5.92] 1.6	27.0 [7.91] 19.0 [5.57] 1.6	27.8 [8.15] 23.1 [6.77] 1.6	27.2 [7.97] 21.8 [6.39] 1.6	26.5 [7.77] 20.5 [6.01] 1.6
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	29.5 [8.65] 17.6 [5.16] 1.7	28.8 [8.44] 16.6 [4.86] 1.7	28.2 [8.26] 15.7 [4.60] 1.7	27.2 [7.97] 21.0 [6.15] 1.7	26.6 [7.80] 19.8 [5.80] 1.7	26.0 [7.62] 18.7 [5.48] 1.7	26.8 [7.85] 22.7 [6.65] 1.7	26.2 [7.68] 21.4 [6.27] 1.7	25.6 [7.50] 20.2 [5.92] 1.7
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	28.4 [8.32] 17.1 [5.01] 1.8	27.8 [8.15] 16.1 [4.72] 1.8	27.1 [7.94] 15.2 [4.45] 1.8	26.1 [7.65] 20.4 [5.98] 1.8	25.5 [7.47] 19.3 [5.66] 1.8	25.0 [7.33] 18.2 [5.33] 1.8	25.7 [7.53] 22.1 [6.48] 1.8	25.1 [7.36] 20.9 [6.13] 1.8	24.5 [7.18] 19.7 [5.77] 1.8
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	27.3 [8.00] 16.5 [4.84] 1.9	26.7 [7.83] 15.6 [4.57] 1.9	26.1 [7.65] 14.7 [4.31] 1.9	25.0 [7.33] 19.9 [5.83] 1.9	24.5 [7.18] 18.8 [5.51] 1.9	23.9 [7.00] 17.7 [5.19] 1.9	24.6 [7.21] 21.6 [6.33] 1.9	24.0 [7.03] 20.4 [5.98] 1.9	23.5 [6.89] 19.2 [5.63] 1.9
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	26.3 [7.71] 15.9 [4.66] 2.0	25.7 [7.53] 15.0 [4.40] 2.0	25.1 [7.36] 14.1 [4.13] 2.0	24.0 [7.03] 19.2 [5.63] 2.0	23.5 [6.89] 18.2 [5.33] 2.0	22.9 [6.71] 17.1 [5.01] 2.0	23.5 [6.89] 20.9 [6.13] 2.0	23.0 [6.74] 19.8 [5.80] 2.0	22.5 [6.59] 18.6 [5.45] 2.0
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	25.4 [7.44] 15.3 [4.48] 2.1	24.9 [7.30] 14.5 [4.25] 2.1	24.3 [7.12] 13.6 [3.99] 2.0	23.1 [6.77] 18.7 [5.48] 2.1	22.6 [6.62] 17.6 [5.16] 2.1	22.1 [6.48] 16.6 [4.86] 2.0	22.7 [6.65] 20.4 [5.98] 2.1	22.2 [6.51] 19.2 [5.63] 2.1	21.7 [6.36] 18.1 [5.30] 2.0
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	24.8 [7.27] 14.8 [4.34] 2.2	24.3 [7.12] 14.0 [4.10] 2.2	23.7 [6.95] 13.2 [3.87] 2.1	22.5 [6.59] 18.1 [5.30] 2.2	22.0 [6.45] 17.1 [5.01] 2.2	21.5 [6.30] 16.1 [4.72] 2.1	22.1 [6.48] 19.8 [5.80] 2.2	21.6 [6.33] 18.7 [5.48] 2.1	21.1 [6.18] 17.7 [5.19] 2.1
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	24.5 [7.18] 14.4 [4.22] 2.3	24.0 [7.03] 13.6 [3.99] 2.2	23.4 [6.86] 12.8 [3.75] 2.2	22.2 [6.51] 17.8 [5.22] 2.3	21.7 [6.36] 16.8 [4.92] 2.2	21.3 [6.24] 15.8 [4.63] 2.2	21.8 [6.39] 19.5 [5.71] 2.3	21.3 [6.24] 18.4 [5.39] 2.2	20.8 [6.10] 17.3 [5.07] 2.2

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

## HEATING PERFORMANCE DATA—RQNA-024

		IDB	60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
		CFM [L/s]	900 [425]	800 [378]	700 [330]	900 [425]	800 [378]	700 [330]	900 [425]	800 [378]	700 [330]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	7.8 [2.29] 1.2	7.7 [2.26] 1.2	7.6 [2.23] 1.3	7.1 [2.08] 1.4	7.0 [2.05] 1.4	7.0 [2.05] 1.5	5.8 [1.70] 1.5	5.8 [1.70] 1.6	5.7 [1.67] 1.6
	5 [-15]	Total BTUH [kW] Power	9.4 [2.75] 1.3	9.3 [2.73] 1.3	9.2 [2.70] 1.3	8.7 [2.55] 1.4	8.6 [2.52] 1.5	8.5 [2.49] 1.5	7.4 [2.17] 1.6	7.3 [2.14] 1.6	7.3 [2.14] 1.6
	10 [-12.2]	Total BTUH [kW] Power	10.9 [3.19] 1.3	10.8 [3.17] 1.3	10.7 [3.14] 1.3	10.2 [2.99] 1.5	10.1 [2.96] 1.5	10.0 [2.93] 1.5	8.9 [2.61] 1.6	8.9 [2.61] 1.6	8.8 [2.58] 1.6
	15 [-9.4]	Total BTUH [kW] Power	12.4 [3.63] 1.3	12.3 [3.60] 1.3	12.2 [3.58] 1.4	11.7 [3.43] 1.5	11.6 [3.40] 1.5	11.5 [3.37] 1.5	10.4 [3.05] 1.6	10.3 [3.02] 1.7	10.2 [2.99] 1.7
	20 [-6.7]	Total BTUH [kW] Power	13.9 [4.07] 1.3	13.8 [4.04] 1.4	13.6 [3.99] 1.4	13.2 [3.87] 1.5	13.1 [3.84] 1.6	13.0 [3.81] 1.6	11.9 [3.49] 1.7	11.8 [3.46] 1.7	11.7 [3.43] 1.7
	25 [-3.9]	Total BTUH [kW] Power	15.4 [4.51] 1.4	15.3 [4.48] 1.4	15.1 [4.43] 1.4	14.7 [4.31] 1.6	14.6 [4.28] 1.6	14.4 [4.22] 1.6	13.4 [3.93] 1.7	13.3 [3.90] 1.7	13.2 [3.87] 1.7
	30 [-1.1]	Total BTUH [kW] Power	17.0 [4.98] 1.4	16.8 [4.92] 1.4	16.7 [4.89] 1.4	16.3 [4.78] 1.6	16.1 [4.72] 1.6	16.0 [4.69] 1.6	15.0 [4.40] 1.7	14.9 [4.37] 1.7	14.7 [4.31] 1.8
	35 [1.7]	Total BTUH [kW] Power	18.6 [5.45] 1.4	18.4 [5.39] 1.4	18.3 [5.36] 1.5	17.9 [5.25] 1.6	17.7 [5.19] 1.6	17.6 [5.16] 1.7	16.6 [4.86] 1.7	16.5 [4.84] 1.8	16.3 [4.78] 1.8
	40 [4.4]	Total BTUH [kW] Power	20.3 [5.95] 1.4	20.2 [5.92] 1.5	20.0 [5.86] 1.5	19.7 [5.77] 1.6	19.5 [5.71] 1.7	19.3 [5.66] 1.7	18.4 [5.39] 1.8	18.2 [5.33] 1.8	18.1 [5.30] 1.8
	45 [7.2]	Total BTUH [kW] Power	22.2 [6.51] 1.5	22.0 [6.45] 1.5	21.8 [6.39] 1.5	21.5 [6.30] 1.7	21.3 [6.24] 1.7	21.2 [6.21] 1.7	20.3 [5.95] 1.8	20.1 [5.89] 1.8	19.9 [5.83] 1.8
50 [10]	Total BTUH [kW] Power	24.3 [7.12] 1.5	24.1 [7.06] 1.5	23.9 [7.00] 1.5	23.6 [6.92] 1.7	23.4 [6.86] 1.7	23.2 [6.80] 1.7	22.3 [6.54] 1.8	22.1 [6.48] 1.8	21.9 [6.42] 1.9	

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions



**COOLING PERFORMANCE DATA—RQNA-030**

		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]		1180 [557]	1050 [496]	920 [434]	1180 [557]	1050 [496]	920 [434]	1180 [557]	1050 [496]	920 [434]	
DR ①		.19	.16	.11	.19	.16	.11	.19	.16	.11	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	37.6 [11.02]	36.8 [10.79]	35.9 [10.52]	35.2 [10.32]	34.4 [10.08]	33.6 [9.85]	34.1 [9.99]	33.3 [9.76]	32.5 [9.52]
		Sens BTUH [kW]	22.4 [6.56]	21.2 [6.21]	19.9 [5.83]	26.5 [7.77]	25.0 [7.33]	23.6 [6.92]	28.8 [8.44]	27.2 [7.97]	25.6 [7.50]
		Power	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	80 [26.7]	Total BTUH [kW]	37.4 [10.96]	36.6 [10.73]	35.7 [10.46]	35.0 [10.26]	34.2 [10.02]	33.5 [9.82]	33.9 [9.94]	33.1 [9.70]	32.4 [9.50]
		Sens BTUH [kW]	22.4 [6.56]	21.2 [6.21]	19.9 [5.83]	26.5 [7.77]	25.0 [7.33]	23.6 [6.92]	28.8 [8.44]	27.2 [7.97]	25.6 [7.50]
		Power	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.0
	85 [29.4]	Total BTUH [kW]	36.7 [10.76]	35.9 [10.52]	35.1 [10.29]	34.4 [10.08]	33.6 [9.85]	32.8 [9.61]	33.2 [9.73]	32.5 [9.52]	31.7 [9.29]
		Sens BTUH [kW]	22.0 [6.45]	20.8 [6.10]	19.6 [5.74]	26.1 [7.65]	24.7 [7.24]	23.2 [6.80]	28.4 [8.32]	26.9 [7.88]	25.3 [7.41]
		Power	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1
	90 [32.2]	Total BTUH [kW]	35.7 [10.46]	34.9 [10.23]	34.2 [10.02]	33.3 [9.76]	32.6 [9.55]	31.9 [9.35]	32.2 [9.44]	31.5 [9.23]	30.8 [9.03]
Sens BTUH [kW]		21.4 [6.27]	20.2 [5.92]	19.0 [5.57]	25.5 [7.47]	24.1 [7.06]	22.7 [6.65]	27.8 [8.15]	26.3 [7.71]	24.7 [7.24]	
Power		2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	
95 [35]	Total BTUH [kW]	34.5 [10.11]	33.7 [9.88]	33.0 [9.67]	32.1 [9.41]	31.4 [9.20]	30.7 [9.00]	31.0 [9.09]	30.3 [8.88]	29.6 [8.67]	
	Sens BTUH [kW]	20.6 [6.04]	19.5 [5.71]	18.3 [5.36]	24.7 [7.24]	23.3 [6.83]	21.9 [6.42]	27.0 [7.91]	25.5 [7.47]	24.0 [7.03]	
	Power	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
100 [37.8]	Total BTUH [kW]	33.2 [9.73]	32.4 [9.50]	31.7 [9.29]	30.8 [9.03]	30.1 [8.82]	29.4 [8.62]	29.6 [8.67]	29.0 [8.50]	28.3 [8.29]	
	Sens BTUH [kW]	19.7 [5.77]	18.6 [5.45]	17.6 [5.16]	23.8 [6.98]	22.5 [6.59]	21.2 [6.21]	26.1 [7.65]	24.7 [7.24]	23.3 [6.83]	
	Power	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
105 [40.6]	Total BTUH [kW]	31.8 [9.32]	31.1 [9.11]	30.4 [8.91]	29.4 [8.62]	28.8 [8.44]	28.1 [8.24]	28.3 [8.29]	27.7 [8.12]	27.0 [7.91]	
	Sens BTUH [kW]	18.9 [5.54]	17.9 [5.25]	16.8 [4.92]	23.0 [6.74]	21.7 [6.36]	20.5 [6.01]	25.3 [7.41]	23.9 [7.00]	22.5 [6.59]	
	Power	2.7	2.6	2.6	2.7	2.6	2.6	2.6	2.6	2.6	
110 [43.3]	Total BTUH [kW]	30.6 [8.97]	29.9 [8.76]	29.2 [8.56]	28.2 [8.26]	27.6 [8.09]	26.9 [7.88]	27.1 [7.94]	26.5 [7.77]	25.9 [7.59]	
	Sens BTUH [kW]	18.3 [5.36]	17.3 [5.07]	16.3 [4.78]	22.3 [6.54]	21.1 [6.18]	19.9 [5.83]	24.7 [7.24]	23.3 [6.83]	21.9 [6.42]	
	Power	2.8	2.8	2.7	2.8	2.7	2.7	2.8	2.7	2.7	
115 [46.1]	Total BTUH [kW]	29.6 [8.67]	29.0 [8.50]	28.3 [8.29]	27.2 [7.97]	26.6 [7.80]	26.0 [7.62]	26.1 [7.65]	25.5 [7.47]	24.9 [7.30]	
	Sens BTUH [kW]	17.9 [5.25]	16.9 [4.95]	15.9 [4.66]	21.9 [6.42]	20.7 [6.07]	19.5 [5.71]	24.3 [7.12]	22.9 [6.71]	21.6 [6.33]	
	Power	2.9	2.9	2.8	2.9	2.9	2.8	2.9	2.9	2.8	

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

**HEATING PERFORMANCE DATA—RQNA-030**

		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
IDB		1180 [557]	1050 [496]	920 [434]	1180 [557]	1050 [496]	920 [434]	1180 [557]	1050 [496]	920 [434]	
CFM [L/s]											
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW]	9.7 [2.84]	9.7 [2.84]	9.6 [2.81]	8.7 [2.55]	8.6 [2.52]	8.5 [2.49]	8.0 [2.34]	7.9 [2.32]	7.8 [2.29]
		Power	1.5	1.5	1.5	1.7	1.7	1.8	1.9	1.9	1.9
	5 [-15]	Total BTUH [kW]	11.8 [3.46]	11.7 [3.43]	11.6 [3.40]	10.7 [3.14]	10.7 [3.14]	10.6 [3.11]	10.1 [2.96]	10.0 [2.93]	9.9 [2.90]
		Power	1.5	1.5	1.6	1.7	1.8	1.8	1.9	1.9	2.0
	10 [-12.2]	Total BTUH [kW]	13.8 [4.04]	13.7 [4.02]	13.6 [3.99]	12.7 [3.72]	12.6 [3.69]	12.5 [3.66]	12.0 [3.52]	11.9 [3.49]	11.8 [3.46]
		Power	1.5	1.6	1.6	1.8	1.8	1.8	2.0	2.0	2.0
	15 [-9.4]	Total BTUH [kW]	15.7 [4.60]	15.6 [4.57]	15.4 [4.51]	14.7 [4.31]	14.5 [4.25]	14.4 [4.22]	14.0 [4.10]	13.8 [4.04]	13.7 [4.02]
		Power	1.6	1.6	1.6	1.8	1.8	1.9	2.0	2.0	2.1
	20 [-6.7]	Total BTUH [kW]	17.6 [5.16]	17.5 [5.13]	17.3 [5.07]	16.6 [4.86]	16.4 [4.81]	16.3 [4.78]	15.9 [4.66]	15.7 [4.60]	15.6 [4.57]
		Power	1.6	1.6	1.7	1.9	1.9	1.9	2.0	2.1	2.1
25 [-3.9]	Total BTUH [kW]	19.5 [5.71]	19.4 [5.69]	19.2 [5.63]	18.5 [5.42]	18.3 [5.36]	18.1 [5.30]	17.8 [5.22]	17.6 [5.16]	17.5 [5.13]	
	Power	1.7	1.7	1.7	1.9	1.9	2.0	2.1	2.1	2.1	
30 [-1.1]	Total BTUH [kW]	21.5 [6.30]	21.3 [6.24]	21.1 [6.18]	20.4 [5.98]	20.3 [5.95]	20.1 [5.89]	19.8 [5.80]	19.6 [5.74]	19.4 [5.69]	
	Power	1.7	1.7	1.7	1.9	2.0	2.0	2.1	2.1	2.2	
35 [1.7]	Total BTUH [kW]	23.6 [6.92]	23.4 [6.86]	23.2 [6.80]	22.5 [6.59]	22.3 [6.54]	22.1 [6.48]	21.8 [6.39]	21.6 [6.33]	21.4 [6.27]	
	Power	1.7	1.8	1.8	2.0	2.0	2.0	2.1	2.2	2.2	
40 [4.4]	Total BTUH [kW]	25.8 [7.56]	25.5 [7.47]	25.3 [7.41]	24.7 [7.24]	24.5 [7.18]	24.3 [7.12]	24.0 [7.03]	23.8 [6.98]	23.6 [6.92]	
	Power	1.8	1.8	1.8	2.0	2.0	2.1	2.2	2.2	2.2	
45 [7.2]	Total BTUH [kW]	28.1 [8.24]	27.9 [8.18]	27.6 [8.09]	27.1 [7.94]	26.8 [7.85]	26.6 [7.80]	26.4 [7.74]	26.1 [7.65]	25.9 [7.59]	
	Power	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.3	
50 [10]	Total BTUH [kW]	30.7 [9.00]	30.4 [8.91]	30.2 [8.85]	29.6 [8.67]	29.4 [8.62]	29.1 [8.53]	28.9 [8.47]	28.7 [8.41]	28.4 [8.32]	
	Power	1.8	1.9	1.9	2.1	2.1	2.1	2.3	2.3	2.3	

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions



## COOLING PERFORMANCE DATA—RQNA-036

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		1350 [637]	1200 [566]	1050 [496]	1350 [637]	1200 [566]	1050 [496]	1350 [637]	1200 [566]	1050 [496]	
		DR ①	.19	.16	.11	.19	.16	.11	.19	.16	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	46.3 [13.57] 26.6 [7.80] 2.4	45.3 [13.28] 25.1 [7.36] 2.4	44.3 [12.98] 23.7 [6.95] 2.4	43.0 [12.60] 31.7 [9.29] 2.4	42.1 [12.34] 29.9 [8.76] 2.4	41.1 [12.05] 28.2 [8.26] 2.3	41.4 [12.13] 33.4 [9.79] 2.4	40.4 [11.84] 31.5 [9.23] 2.4	39.5 [11.58] 29.7 [8.70] 2.4
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	45.2 [13.25] 25.8 [7.56] 2.6	44.2 [12.95] 24.4 [7.15] 2.5	43.2 [12.66] 22.9 [6.71] 2.5	41.9 [12.28] 30.9 [9.06] 2.5	41.0 [12.02] 29.2 [8.56] 2.5	40.1 [11.75] 27.5 [8.06] 2.5	40.3 [11.81] 32.6 [9.55] 2.5	39.4 [11.55] 30.8 [9.03] 2.5	38.5 [11.28] 29.0 [8.50] 2.5
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	43.9 [12.87] 25.1 [7.36] 2.7	42.9 [12.57] 23.8 [6.98] 2.6	41.9 [12.28] 22.4 [6.56] 2.6	40.6 [11.90] 30.2 [8.85] 2.6	39.7 [11.63] 28.5 [8.35] 2.6	38.8 [11.37] 26.9 [7.88] 2.6	38.9 [11.40] 31.9 [9.35] 2.7	38.0 [11.14] 30.2 [8.85] 2.6	37.2 [10.90] 28.4 [8.32] 2.6
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	42.4 [12.43] 24.6 [7.21] 2.8	41.4 [12.13] 23.3 [6.83] 2.8	40.5 [11.87] 21.9 [6.42] 2.7	39.1 [11.46] 29.7 [8.70] 2.8	38.2 [11.20] 28.0 [8.21] 2.7	37.3 [10.93] 26.4 [7.74] 2.7	37.4 [10.96] 31.4 [9.20] 2.8	36.6 [10.73] 29.7 [8.70] 2.7	35.7 [10.46] 27.9 [8.18] 2.7
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	40.8 [11.96] 24.1 [7.06] 2.9	39.9 [11.69] 22.8 [6.68] 2.9	39.0 [11.43] 21.5 [6.30] 2.9	37.5 [10.99] 29.2 [8.56] 2.9	36.7 [10.76] 27.6 [8.09] 2.8	35.8 [10.49] 26.0 [7.62] 2.8	35.8 [10.49] 30.9 [9.06] 2.9	35.0 [10.26] 29.2 [8.56] 2.9	34.2 [10.02] 27.5 [8.06] 2.8
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	39.3 [11.52] 23.6 [6.92] 3.0	38.4 [11.25] 22.3 [6.54] 3.0	37.5 [10.99] 21.0 [6.15] 3.0	36.0 [10.55] 28.7 [8.41] 3.0	35.2 [10.32] 27.1 [7.94] 3.0	34.4 [10.08] 25.5 [7.47] 2.9	34.3 [10.05] 30.4 [8.91] 3.0	33.5 [9.82] 28.7 [8.41] 3.0	32.8 [9.61] 27.0 [7.91] 2.9
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	37.8 [11.08] 23.0 [6.74] 3.2	37.0 [10.84] 21.7 [6.36] 3.1	36.2 [10.61] 20.5 [6.01] 3.1	34.5 [10.11] 28.1 [8.24] 3.1	33.8 [9.91] 26.5 [7.77] 3.1	33.0 [9.67] 25.0 [7.33] 3.0	32.9 [9.64] 29.8 [8.73] 3.1	32.1 [9.41] 28.1 [8.24] 3.1	31.4 [9.20] 26.5 [7.77] 3.1
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	36.6 [10.73] 22.2 [6.51] 3.3	35.8 [10.49] 21.0 [6.15] 3.2	35.0 [10.26] 19.8 [5.80] 3.2	33.3 [9.76] 27.3 [8.00] 3.2	32.6 [9.55] 25.8 [7.56] 3.2	31.8 [9.32] 24.3 [7.12] 3.2	31.6 [9.26] 29.0 [8.50] 3.3	30.9 [9.06] 27.4 [8.03] 3.2	30.2 [8.85] 25.8 [7.56] 3.2
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	35.7 [10.46] 21.3 [6.24] 3.4	34.9 [10.23] 20.1 [5.89] 3.4	34.1 [9.99] 18.9 [5.54] 3.3	32.4 [9.50] 26.3 [7.71] 3.4	31.7 [9.29] 24.9 [7.30] 3.3	30.9 [9.06] 23.4 [6.86] 3.3	30.7 [9.00] 28.0 [8.21] 3.4	30.0 [8.79] 26.5 [7.77] 3.3	29.3 [8.59] 25.0 [7.33] 3.3

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

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

### NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

## HEATING PERFORMANCE DATA—RQNA-036

		IDB	60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
		CFM [L/s]	1350 [637]	1200 [566]	1050 [496]	1350 [637]	1200 [566]	1050 [496]	1350 [637]	1200 [566]	1050 [496]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	13.9 [4.07] 1.8	13.8 [4.04] 1.8	13.6 [3.99] 1.8	13.0 [3.81] 2.0	12.9 [3.78] 2.1	12.7 [3.72] 2.1	12.1 [3.55] 2.3	12.0 [3.52] 2.4	11.9 [3.49] 2.4
	5 [-15]	Total BTUH [kW] Power	15.8 [4.63] 1.8	15.7 [4.60] 1.9	15.5 [4.54] 1.9	14.9 [4.37] 2.1	14.8 [4.34] 2.1	14.7 [4.31] 2.2	14.1 [4.13] 2.4	14.0 [4.10] 2.4	13.8 [4.04] 2.4
	10 [-12.2]	Total BTUH [kW] Power	17.6 [5.16] 1.9	17.5 [5.13] 1.9	17.3 [5.07] 1.9	16.7 [4.89] 2.1	16.6 [4.86] 2.2	16.4 [4.81] 2.2	15.9 [4.66] 2.4	15.8 [4.63] 2.5	15.6 [4.57] 2.5
	15 [-9.4]	Total BTUH [kW] Power	19.4 [5.69] 1.9	19.2 [5.63] 2.0	19.1 [5.60] 2.0	18.5 [5.42] 2.2	18.3 [5.36] 2.2	18.2 [5.33] 2.3	17.7 [5.19] 2.5	17.5 [5.13] 2.5	17.3 [5.07] 2.5
	20 [-6.7]	Total BTUH [kW] Power	21.2 [6.21] 2.0	21.0 [6.15] 2.0	20.8 [6.10] 2.0	20.3 [5.95] 2.2	20.1 [5.89] 2.3	19.9 [5.83] 2.3	19.4 [5.69] 2.5	19.3 [5.66] 2.6	19.1 [5.60] 2.6
	25 [-3.9]	Total BTUH [kW] Power	23.0 [6.74] 2.0	22.8 [6.68] 2.1	22.6 [6.62] 2.1	22.1 [6.48] 2.3	21.9 [6.42] 2.3	21.7 [6.36] 2.4	21.3 [6.24] 2.6	21.1 [6.18] 2.6	20.9 [6.13] 2.6
	30 [-1.1]	Total BTUH [kW] Power	25.1 [7.36] 2.1	24.8 [7.27] 2.1	24.6 [7.21] 2.1	24.1 [7.06] 2.3	23.9 [7.00] 2.4	23.7 [6.95] 2.4	23.3 [6.83] 2.6	23.1 [6.77] 2.6	22.9 [6.71] 2.7
	35 [1.7]	Total BTUH [kW] Power	27.3 [8.00] 2.1	27.1 [7.94] 2.2	26.8 [7.85] 2.2	26.4 [7.74] 2.4	26.2 [7.68] 2.4	25.9 [7.59] 2.5	25.6 [7.50] 2.7	25.3 [7.41] 2.7	25.1 [7.36] 2.7
	40 [4.4]	Total BTUH [kW] Power	29.9 [8.76] 2.2	29.6 [8.67] 2.2	29.4 [8.62] 2.2	29.0 [8.50] 2.4	28.7 [8.41] 2.5	28.5 [8.35] 2.5	28.1 [8.24] 2.7	27.9 [8.18] 2.7	27.6 [8.09] 2.8
	45 [7.2]	Total BTUH [kW] Power	32.8 [9.61] 2.2	32.6 [9.55] 2.3	32.3 [9.47] 2.3	31.9 [9.35] 2.5	31.7 [9.29] 2.5	31.4 [9.20] 2.6	31.1 [9.11] 2.8	30.8 [9.03] 2.8	30.6 [8.97] 2.8
50 [10]	Total BTUH [kW] Power	36.3 [10.64] 2.3	35.9 [10.52] 2.3	35.6 [10.43] 2.3	35.4 [10.37] 2.5	35.0 [10.26] 2.6	34.7 [10.17] 2.6	34.5 [10.11] 2.8	34.2 [10.02] 2.8	33.9 [9.94] 2.9	

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions



## COOLING PERFORMANCE DATA—RQNA-042

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		1580 [746]	1400 [661]	1220 [576]	1580 [746]	1400 [661]	1220 [576]	1580 [746]	1400 [661]	1220 [576]	
		CFM [L/s]									
		DR ①	.19	.16	.11	.19	.16	.11	.19	.16	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	57.5 [16.85]	56.2 [16.47]	54.9 [16.09]	53.3 [15.62]	52.1 [15.27]	51.0 [14.95]	51.4 [15.06]	50.3 [14.74]	49.2 [14.42]
		Sens BTUH [kW]	33.3 [9.76]	31.4 [9.20]	29.6 [8.67]	38.9 [11.40]	36.8 [10.79]	34.6 [10.14]	41.3 [12.10]	39.0 [11.43]	36.7 [10.76]
		Power	3.1	3.1	3.1	3.1	3.1	3.0	3.1	3.1	3.0
	80 [26.7]	Total BTUH [kW]	54.2 [15.88]	53.0 [15.53]	51.8 [15.18]	50.0 [14.65]	48.9 [14.33]	47.8 [14.01]	48.2 [14.13]	47.1 [13.80]	46.0 [13.48]
		Sens BTUH [kW]	31.6 [9.26]	29.8 [8.73]	28.1 [8.24]	37.2 [10.90]	35.2 [10.32]	33.1 [9.70]	39.6 [11.61]	37.4 [10.96]	35.2 [10.32]
		Power	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	85 [29.4]	Total BTUH [kW]	52.0 [15.24]	50.8 [14.89]	49.7 [14.57]	47.8 [14.01]	46.7 [13.69]	45.7 [13.39]	45.9 [13.45]	44.9 [13.16]	43.9 [12.87]
		Sens BTUH [kW]	30.4 [8.91]	28.7 [8.41]	27.0 [7.91]	36.1 [10.58]	34.1 [9.99]	32.1 [9.41]	38.4 [11.25]	36.3 [10.64]	34.2 [10.02]
		Power	3.4	3.4	3.4	3.4	3.4	3.3	3.4	3.4	3.3
	90 [32.2]	Total BTUH [kW]	50.5 [14.80]	49.4 [14.48]	48.3 [14.16]	46.4 [13.60]	45.3 [13.28]	44.3 [12.98]	44.5 [13.04]	43.5 [12.75]	42.5 [12.46]
Sens BTUH [kW]		29.6 [8.67]	27.9 [8.18]	26.3 [7.71]	35.2 [10.32]	33.3 [9.76]	31.3 [9.17]	37.6 [11.02]	35.5 [10.40]	33.4 [9.79]	
Power		3.6	3.6	3.5	3.6	3.5	3.5	3.6	3.5	3.5	
95 [35]	Total BTUH [kW]	49.6 [14.54]	48.5 [14.21]	47.4 [13.89]	45.5 [13.33]	44.5 [13.04]	43.5 [12.75]	43.6 [12.78]	42.6 [12.48]	41.7 [12.22]	
	Sens BTUH [kW]	29.0 [8.50]	27.4 [8.03]	25.8 [7.56]	34.7 [10.17]	32.8 [9.61]	30.9 [9.06]	37.0 [10.84]	35.0 [10.26]	32.9 [9.64]	
	Power	3.7	3.7	3.7	3.7	3.7	3.6	3.7	3.7	3.6	
100 [37.8]	Total BTUH [kW]	49.0 [14.36]	47.9 [14.04]	46.8 [13.72]	44.8 [13.13]	43.8 [12.84]	42.8 [12.54]	42.9 [12.57]	42.0 [12.31]	41.0 [12.02]	
	Sens BTUH [kW]	28.6 [8.38]	27.0 [7.91]	25.5 [7.47]	34.3 [10.05]	32.4 [9.50]	30.5 [8.94]	36.6 [10.73]	34.6 [10.14]	32.6 [9.55]	
	Power	3.9	3.9	3.8	3.9	3.8	3.8	3.9	3.8	3.8	
105 [40.6]	Total BTUH [kW]	48.3 [14.16]	47.2 [13.83]	46.1 [13.51]	44.1 [12.92]	43.2 [12.66]	42.2 [12.37]	42.3 [12.40]	41.3 [12.10]	40.4 [11.84]	
	Sens BTUH [kW]	28.3 [8.29]	26.7 [7.83]	25.1 [7.36]	33.9 [9.94]	32.0 [9.38]	30.2 [8.85]	36.3 [10.64]	34.3 [10.05]	32.3 [9.47]	
	Power	4.1	4.0	4.0	4.0	4.0	3.9	4.0	4.0	3.9	
110 [43.3]	Total BTUH [kW]	47.3 [13.86]	46.3 [13.57]	45.2 [13.25]	43.2 [12.66]	42.2 [12.37]	41.2 [12.07]	41.3 [12.10]	40.4 [11.84]	39.5 [11.58]	
	Sens BTUH [kW]	27.8 [8.15]	26.3 [7.71]	24.8 [7.27]	33.5 [9.82]	31.7 [9.29]	29.8 [8.73]	35.8 [10.49]	33.9 [9.94]	31.9 [9.35]	
	Power	4.2	4.2	4.1	4.2	4.1	4.1	4.2	4.1	4.1	
115 [46.1]	Total BTUH [kW]	45.8 [13.42]	44.8 [13.13]	43.7 [12.81]	41.6 [12.19]	40.7 [11.93]	39.8 [11.66]	39.7 [11.63]	38.9 [11.40]	38.0 [11.14]	
	Sens BTUH [kW]	27.2 [7.97]	25.7 [7.53]	24.2 [7.09]	32.9 [9.64]	31.1 [9.11]	29.3 [8.59]	35.3 [10.35]	33.3 [9.76]	31.4 [9.20]	
	Power	4.4	4.3	4.3	4.3	4.3	4.2	4.3	4.3	4.2	

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

## HEATING PERFORMANCE DATA—RQNA-042

		IDB	60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
		CFM [L/s]	1580 [746]	1400 [661]	1220 [576]	1580 [746]	1400 [661]	1220 [576]	1580 [746]	1400 [661]	1220 [576]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW]	16.0 [4.69]	15.8 [4.63]	15.7 [4.60]	14.4 [4.22]	14.3 [4.19]	14.2 [4.16]	13.4 [3.93]	13.3 [3.90]	13.1 [3.84]
		Power	2.2	2.2	2.3	2.5	2.6	2.6	2.8	2.9	2.9
	5 [-15]	Total BTUH [kW]	18.0 [5.28]	17.8 [5.22]	17.7 [5.19]	16.4 [4.81]	16.3 [4.78]	16.1 [4.72]	15.4 [4.51]	15.2 [4.45]	15.1 [4.43]
		Power	2.3	2.3	2.3	2.6	2.6	2.7	2.9	2.9	3.0
	10 [-12.2]	Total BTUH [kW]	20.3 [5.95]	20.1 [5.89]	20.0 [5.86]	18.7 [5.48]	18.6 [5.45]	18.4 [5.39]	17.7 [5.19]	17.6 [5.16]	17.4 [5.10]
		Power	2.3	2.4	2.4	2.6	2.7	2.7	2.9	3.0	3.0
	15 [-9.4]	Total BTUH [kW]	22.9 [6.71]	22.7 [6.65]	22.5 [6.59]	21.3 [6.24]	21.1 [6.18]	20.9 [6.13]	20.3 [5.95]	20.1 [5.89]	19.9 [5.83]
		Power	2.4	2.4	2.4	2.7	2.7	2.8	3.0	3.0	3.1
	20 [-6.7]	Total BTUH [kW]	25.6 [7.50]	25.4 [7.44]	25.2 [7.39]	24.1 [7.06]	23.8 [6.98]	23.6 [6.92]	23.0 [6.74]	22.8 [6.68]	22.6 [6.62]
		Power	2.4	2.5	2.5	2.7	2.8	2.8	3.0	3.1	3.1
25 [-3.9]	Total BTUH [kW]	28.5 [8.35]	28.2 [8.26]	28.0 [8.21]	26.9 [7.88]	26.7 [7.83]	26.4 [7.74]	25.9 [7.59]	25.7 [7.53]	25.4 [7.44]	
	Power	2.5	2.5	2.6	2.8	2.8	2.9	3.1	3.1	3.2	
30 [-1.1]	Total BTUH [kW]	31.4 [9.20]	31.1 [9.11]	30.8 [9.03]	29.8 [8.73]	29.5 [8.65]	29.3 [8.59]	28.8 [8.44]	28.5 [8.35]	28.3 [8.29]	
	Power	2.5	2.6	2.6	2.8	2.9	2.9	3.1	3.2	3.2	
35 [1.7]	Total BTUH [kW]	34.2 [10.02]	33.9 [9.94]	33.6 [9.85]	32.6 [9.55]	32.4 [9.50]	32.1 [9.41]	31.6 [9.26]	31.3 [9.17]	31.1 [9.11]	
	Power	2.6	2.6	2.7	2.9	2.9	3.0	3.2	3.3	3.3	
40 [4.4]	Total BTUH [kW]	37.0 [10.84]	36.6 [10.73]	36.3 [10.64]	35.4 [10.37]	35.1 [10.29]	34.8 [10.20]	34.4 [10.08]	34.1 [9.99]	33.8 [9.91]	
	Power	2.6	2.7	2.7	2.9	3.0	3.0	3.3	3.3	3.4	
45 [7.2]	Total BTUH [kW]	39.5 [11.58]	39.2 [11.49]	38.8 [11.37]	38.0 [11.14]	37.6 [11.02]	37.3 [10.93]	36.9 [10.81]	36.6 [10.73]	36.3 [10.64]	
	Power	2.7	2.7	2.8	3.0	3.0	3.1	3.3	3.4	3.4	
50 [10]	Total BTUH [kW]	41.8 [12.25]	41.5 [12.16]	41.1 [12.05]	40.3 [11.81]	39.9 [11.69]	39.6 [11.61]	39.2 [11.49]	38.9 [11.40]	38.5 [11.28]	
	Power	2.7	2.8	2.8	3.0	3.1	3.1	3.4	3.4	3.5	

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions



## COOLING PERFORMANCE DATA—RQNA-048

		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]	1800 [850]	1600 [755]	1400 [661]	1800 [850]	1600 [755]	1400 [661]	1800 [850]	1600 [755]	1400 [661]
		DR ①	.19	.16	.11	.19	.16	.11	.19	.16	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	61.3 [17.97] 36.1 [10.58] 3.4	60.0 [17.58] 34.1 [9.99] 3.3	58.6 [17.17] 32.1 [9.41] 3.3	57.1 [16.73] 42.7 [12.51] 3.3	55.9 [16.38] 40.3 [11.81] 3.3	54.6 [16.00] 38.0 [11.14] 3.2	54.2 [15.88] 44.8 [13.13] 3.3	53.0 [15.53] 42.3 [12.40] 3.2	51.8 [15.18] 39.9 [11.69] 3.2
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	60.0 [17.58] 35.7 [10.46] 3.5	58.7 [17.20] 33.7 [9.88] 3.5	57.3 [16.79] 31.7 [9.29] 3.5	55.8 [16.35] 42.2 [12.37] 3.5	54.6 [16.00] 39.9 [11.69] 3.4	53.3 [15.62] 37.6 [11.02] 3.4	52.9 [15.50] 44.4 [13.01] 3.5	51.7 [15.15] 41.9 [12.28] 3.4	50.5 [14.80] 39.5 [11.58] 3.4
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	58.5 [17.14] 35.0 [10.26] 3.7	57.2 [16.76] 33.0 [9.67] 3.7	55.9 [16.38] 31.1 [9.11] 3.6	54.3 [15.91] 41.5 [12.16] 3.7	53.1 [15.56] 39.3 [11.52] 3.6	51.9 [15.21] 37.0 [10.84] 3.6	51.4 [15.06] 43.7 [12.81] 3.6	50.3 [14.74] 41.2 [12.07] 3.6	49.1 [14.39] 38.8 [11.37] 3.6
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	56.9 [16.68] 34.1 [9.99] 3.9	55.7 [16.32] 32.2 [9.44] 3.9	54.4 [15.94] 30.3 [8.88] 3.8	52.7 [15.44] 40.7 [11.93] 3.8	51.6 [15.12] 38.4 [11.25] 3.8	50.4 [14.77] 36.2 [10.61] 3.7	49.8 [14.59] 42.8 [12.54] 3.8	48.7 [14.27] 40.4 [11.84] 3.8	47.6 [13.95] 38.1 [11.17] 3.7
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	55.4 [16.24] 33.2 [9.73] 4.1	54.1 [15.86] 31.3 [9.17] 4.0	52.9 [15.50] 29.5 [8.65] 4.0	51.2 [15.01] 39.7 [11.63] 4.0	50.0 [14.65] 37.5 [10.99] 4.0	48.9 [14.33] 35.3 [10.35] 3.9	48.3 [14.16] 41.8 [12.25] 4.0	47.2 [13.83] 39.5 [11.58] 3.9	46.1 [13.51] 37.2 [10.90] 3.9
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	53.9 [15.80] 32.2 [9.44] 4.2	52.7 [15.44] 30.4 [8.91] 4.2	51.5 [15.09] 28.7 [8.41] 4.2	49.7 [14.57] 38.8 [11.37] 4.2	48.6 [14.24] 36.6 [10.73] 4.1	47.5 [13.92] 34.5 [10.11] 4.1	46.8 [13.72] 40.9 [11.99] 4.2	45.7 [13.39] 38.6 [11.31] 4.1	44.7 [13.10] 36.4 [10.67] 4.1
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	52.5 [15.39] 31.4 [9.20] 4.4	51.3 [15.03] 29.6 [8.67] 4.4	50.2 [14.71] 27.9 [8.18] 4.3	48.3 [14.16] 37.9 [11.11] 4.4	47.2 [13.83] 35.8 [10.49] 4.3	46.2 [13.54] 33.7 [9.88] 4.3	45.4 [13.31] 40.0 [11.72] 4.3	44.4 [13.01] 37.8 [11.08] 4.3	43.4 [12.72] 35.6 [10.43] 4.2
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	51.3 [15.03] 30.7 [9.00] 4.6	50.2 [14.71] 29.0 [8.50] 4.5	49.1 [14.39] 27.3 [8.00] 4.5	47.2 [13.83] 37.3 [10.93] 4.5	46.1 [13.51] 35.2 [10.32] 4.5	45.1 [13.22] 33.2 [9.73] 4.4	44.3 [12.98] 39.4 [11.55] 4.5	43.3 [12.69] 37.2 [10.90] 4.5	42.3 [12.40] 35.0 [10.26] 4.4
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	50.5 [14.80] 30.3 [8.88] 4.8	49.3 [14.45] 28.7 [8.41] 4.7	48.2 [14.13] 27.0 [7.91] 4.7	46.3 [13.57] 36.9 [10.81] 4.7	45.2 [13.25] 34.9 [10.23] 4.7	44.2 [12.95] 32.8 [9.61] 4.6	43.4 [12.72] 39.0 [11.43] 4.7	42.4 [12.43] 36.9 [10.81] 4.6	41.4 [12.13] 34.7 [10.17] 4.6

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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

## HEATING PERFORMANCE DATA—RQNA-048

		IDB									
		CFM [L/s]	60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
		1800 [850]	1600 [755]	1400 [661]	1800 [850]	1600 [755]	1400 [661]	1800 [850]	1600 [755]	1400 [661]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	15.1 [4.43] 2.6	14.9 [4.37] 2.6	14.8 [4.34] 2.6	14.3 [4.19] 3.0	14.2 [4.16] 3.1	14.1 [4.13] 3.1	13.4 [3.93] 3.4	13.3 [3.90] 3.4	13.2 [3.87] 3.5
	5 [-15]	Total BTUH [kW] Power	18.3 [5.36] 2.6	18.1 [5.30] 2.7	17.9 [5.25] 2.7	17.5 [5.13] 3.1	17.3 [5.07] 3.1	17.2 [5.04] 3.2	16.6 [4.86] 3.4	16.5 [4.84] 3.5	16.3 [4.78] 3.5
	10 [-12.2]	Total BTUH [kW] Power	21.8 [6.39] 2.7	21.6 [6.33] 2.7	21.4 [6.27] 2.8	21.0 [6.15] 3.1	20.8 [6.10] 3.2	20.6 [6.04] 3.2	20.1 [5.89] 3.5	20.0 [5.86] 3.5	19.8 [5.80] 3.6
	15 [-9.4]	Total BTUH [kW] Power	25.5 [7.47] 2.7	25.3 [7.41] 2.8	25.0 [7.33] 2.8	24.7 [7.24] 3.2	24.5 [7.18] 3.3	24.3 [7.12] 3.3	23.9 [7.00] 3.5	23.6 [6.92] 3.6	23.4 [6.86] 3.7
	20 [-6.7]	Total BTUH [kW] Power	29.3 [8.59] 2.8	29.0 [8.50] 2.8	28.8 [8.44] 2.9	28.5 [8.35] 3.3	28.3 [8.29] 3.3	28.0 [8.21] 3.4	27.6 [8.09] 3.6	27.4 [8.03] 3.7	27.2 [7.97] 3.7
	25 [-3.9]	Total BTUH [kW] Power	33.0 [9.67] 2.9	32.7 [9.58] 2.9	32.4 [9.50] 3.0	32.3 [9.47] 3.3	32.0 [9.38] 3.4	31.7 [9.29] 3.4	31.4 [9.20] 3.7	31.1 [9.11] 3.7	30.8 [9.03] 3.8
	30 [-1.1]	Total BTUH [kW] Power	36.6 [10.73] 2.9	36.3 [10.64] 3.0	35.9 [10.52] 3.0	35.8 [10.49] 3.4	35.5 [10.40] 3.4	35.2 [10.32] 3.5	34.9 [10.23] 3.7	34.6 [10.14] 3.8	34.3 [10.05] 3.8
	35 [1.7]	Total BTUH [kW] Power	39.8 [11.66] 3.0	39.5 [11.58] 3.0	39.1 [11.46] 3.1	39.1 [11.46] 3.5	38.7 [11.34] 3.5	38.4 [11.25] 3.6	38.2 [11.20] 3.8	37.9 [11.11] 3.9	37.5 [10.99] 3.9
	40 [4.4]	Total BTUH [kW] Power	42.7 [12.51] 3.0	42.3 [12.40] 3.1	41.9 [12.28] 3.1	41.9 [12.28] 3.5	41.5 [12.16] 3.6	41.2 [12.07] 3.6	41.0 [12.02] 3.9	40.7 [11.93] 3.9	40.3 [11.81] 4.0
	45 [7.2]	Total BTUH [kW] Power	45.0 [13.19] 3.1	44.6 [13.07] 3.2	44.2 [12.95] 3.2	44.2 [12.95] 3.6	43.8 [12.84] 3.6	43.4 [12.72] 3.7	43.3 [12.69] 3.9	42.9 [12.57] 4.0	42.5 [12.46] 4.0
50 [10]	Total BTUH [kW] Power	46.5 [13.63] 3.2	46.1 [13.51] 3.2	45.7 [13.39] 3.3	45.8 [13.42] 3.6	45.4 [13.31] 3.7	45.0 [13.19] 3.8	44.9 [13.16] 4.0	44.5 [13.04] 4.0	44.1 [12.92] 4.1	

IDB—Indoor air dry bulb

[ ] Designates Metric Conversions





## INDOOR AIRFLOW PERFORMANCE—208 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory	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 Side Discharge—Wet Coil																							
					External Static Pressure—Inches W.C. [kPa]																							
					0.1 [1.02]	0.2 [1.05]	0.3 [1.07]	0.4 [1.10]	0.5 [1.12]	0.6 [1.15]	0.7 [1.17]																	
2.0 [7.03]	High	700 CFM/900 CFM [271/319 L/s]	9x7 1/4 HP [186] 2 Speed Motor	Low	CFM	675 [319]	657 [310]	634 [299]	602 [284]	560 [264]	505 [238]	435 [205]	RPM	695	785	870	905	940	980	1020	Watts	221	214	203	191	171	163	149
					CFM	898 [424]	861 [406]	822 [388]	777 [367]	721 [340]	651 [307]	562 [265]	RPM	940	965	995	1020	1045	1070	1090	Watts	292	278	266	253	239	221	199
					CFM	1076 [508]	1059 [500]	1032 [487]	996 [470]	950 [448]	896 [423]	832 [393]	RPM	730	775	820	865	905	940	975	Watts	356	349	341	331	320	305	287
2.5 [8.79]	Low	875 CFM/1125 CFM [413/531 L/s]	10x9 1/2 HP [372] 2 Speed Motor	Medium	CFM	1222 [577]	1197 [565]	1179 [556]	1162 [548]	1137 [537]	1097 [518]	1033 [488]	RPM	765	810	855	890	920	960	995	Watts	423	415	407	397	386	370	351
					CFM	1514 [715]	1461 [690]	1415 [668]	1370 [647]	1322 [624]	1266 [597]	1197 [565]	RPM	895	930	965	985	1005	1025	1045	Watts	538	514	493	473	454	434	412
					CFM	1222 [577]	1201 [567]	1173 [554]	1137 [537]	1090 [514]	1030 [486]	954 [450]	RPM	785	805	830	870	905	950	990	Watts	355	352	346	340	331	320	306
3.0 [10.55]	Low	1050 CFM/1350 CFM [496/637 L/s]	10x9 1/3 HP [248] 1 Speed Motor	High	CFM	1455 [687]	1431 [675]	1396 [659]	1360 [642]	1315 [621]	1285 [606]	1241 [586]	RPM	824	856	889	931	968	1009	1041	Watts	268	280	288	303	311	325	331
					CFM	1559 [736]	1530 [722]	1488 [702]	1454 [686]	1417 [669]	1375 [649]	1336 [631]	RPM	870	893	932	968	1007	1036	1072	Watts	321	327	338	351	364	371	381
					CFM	1675 [791]	1658 [782]	1610 [760]	1580 [746]	1535 [724]	1491 [704]	1422 [671]	RPM	923	944	979	1013	1045	1077	1098	Watts	390	401	412	425	433	440	432
4.0 [14.07]	Low	1350 CFM/1700 CFM [496/802 L/s]	10x9 3/4 HP [559] 2 Speed Motor	High	CFM	1770 [835]	1751 [826]	1706 [805]	1672 [789]	1624 [766]	1555 [734]	1463 [690]	RPM	966	989	1018	1050	1078	1100	1115	Watts	454	466	473	486	490	481	460

NOTE: Effect of electric heat strip on airflow performance is negligible.

[ ] Designates Metric Conversions



## INDOOR AIRFLOW PERFORMANCE—230 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory	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 Side Discharge—Wet Coil							
					External Static Pressure—Inches W.C. [kPa]							
					0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	
2.0 [7.03]	High	700 CFM/900 CFM [271/319 L/s]	9x7 1/4 HP [186] 2 Speed Motor	Low	CFM	771 [364]	751 [354]	725 [342]	691 [326]	645 [304]	584 [276]	546 [258]
					RPM	825	870	910	950	985	1010	1030
					Watts	253	242	230	217	204	189	181
2.5 [8.79]	Low	875 CFM/1125 CFM [413/531 L/s]	10x9 1/2 HP [373] 2 Speed Motor	Medium	CFM	946 [446]	922 [435]	882 [416]	830 [392]	769 [363]	701 [331]	630 [297]
					RPM	990	1015	1035	1055	1070	1085	1100
					Watts	315	303	288	273	257	241	226
3.0 [10.55]	High	1050 CFM/1350 CFM [496/637 L/s]	10x9 1/3 HP [249] 1 Speed Motor	High	CFM	1206 [569]	1182 [558]	1157 [546]	1128 [532]	1091 [515]	1044 [493]	983 [464]
					RPM	760	815	870	910	950	975	1000
					Watts	419	406	394	381	368	353	334
3.5 [12.31]	Low	1225 CFM/1575 CFM [578/743 L/s]	10x9 3/4 HP [559] 2 Speed Motor	High	CFM	1411 [666]	1388 [646]	1327 [626]	1285 [606]	1238 [584]	1183 [558]	1116 [527]
					RPM	865	900	935	970	1000	1020	1035
					Watts	498	498	481	464	447	431	391
4.0 [14.07]	Low	1350 CFM/1700 CFM [496/802 L/s]	10x9 3/4 HP [559] 2 Speed Motor	High	CFM	1641 [774]	1577 [744]	1515 [715]	1455 [687]	1393 [657]	1329 [627]	1262 [596]
					RPM	980	1000	1020	1035	1050	1065	1080
					Watts	589	565	543	523	503	481	456
3.0 [10.55]	High	1050 CFM/1350 CFM [496/637 L/s]	10x9 1/3 HP [249] 1 Speed Motor	High	CFM	1391 [656]	1357 [640]	1312 [619]	1258 [594]	1201 [567]	1145 [540]	1093 [516]
					RPM	835	875	915	940	965	985	1000
					Watts	428	419	406	392	378	365	355
3.5 [12.31]	Low	1225 CFM/1575 CFM [578/743 L/s]	10x9 3/4 HP [559] 2 Speed Motor	Low	CFM	1467 [692]	1439 [679]	1408 [665]	1360 [642]	1331 [628]	1287 [607]	1259 [594]
					RPM	831	854	894	932	972	1005	1042
					Watts	276	282	297	307	319	326	341
4.0 [14.07]	Low	1350 CFM/1700 CFM [496/802 L/s]	10x9 3/4 HP [559] 2 Speed Motor	High	CFM	1550 [732]	1520 [717]	1486 [701]	1449 [684]	1407 [664]	1382 [652]	1337 [631]
					RPM	867	890	930	974	1003	1039	1073
					Watts	317	323	339	355	362	377	385
3.0 [10.55]	High	1050 CFM/1350 CFM [496/637 L/s]	10x9 1/3 HP [249] 1 Speed Motor	High	CFM	1692 [799]	1661 [784]	1633 [771]	1589 [750]	1560 [736]	1512 [714]	1442 [681]
					RPM	931	950	982	1018	1054	1082	1103
					Watts	404	409	424	434	450	453	443
4.0 [14.07]	Low	1350 CFM/1700 CFM [496/802 L/s]	10x9 3/4 HP [559] 2 Speed Motor	High	CFM	1748 [825]	1718 [811]	1686 [796]	1647 [777]	1616 [763]	1543 [728]	1472 [695]
					RPM	955	978	1010	1043	1073	1096	1111
					Watts	440	446	462	475	484	473	459

NOTE: Effect of electric heat strip on airflow performance is negligible.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)			
CFM [L/s]	600 [283]	800 [378]	1600 [775]
Pressure Drop—Inches W.C. [kPa]	.00	.01 [0.002]	.07 [0.017]

[ ] Designates Metric Conversions





ELECTRICAL DATA – RQNA- SERIES									
		-024JK	-030JK	-036CK	-036JK	-042CK	-042JK	-048CK	-048JK
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	17/17	21/21	16/16	24/24	25/25	32/32	25/25	37/37
	Minimum Overcurrent Protection Device Size	20/20	25/25	20/20	30/30	30/30	40/40	30/30	45/45
	Maximum Overcurrent Protection Device Size	25/25	30/30	25/25	35/35	35/35	45/45	35/35	50/50
Compressor Motor	No.	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	200/230	208/230	200/230	208/230	200/230	208/230
	Phase	1	1	3	1	3	1	3	1
	HP	2	2 1/2	3	3	3 1/2	3 1/2	4	4
	RPM	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	10.9/10.9	13.5/13.5	10.3/10.3	16/16	12.4/12.4	17.9/17.9	12.4/12.4	22/22
	Amps (LRA)	54/54	72.5/72.5	77/77	88/88	88/88	95/95	88/88	137/137
Condenser Motor	No.	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
	Phase	1	1	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/3	1/3	1/3	1/3
	Amps (FLA)	1.3	1.3	1.3	1.3	2	2	2	2
	Amps (LRA)	2.2	2.2	2.2	2.2	3.9	3.9	3.9	3.9
Evaporator Fan	No.	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
	Phase	1	1	1	1	1	1	1	1
	HP	1/4	1/2	1/3	1/3	3/4	3/4	3/4	3/4
	Amps (FLA)	1.5	2.4	1.7	1.7	6.8	6.8	6.8	6.8
	Amps (LRA)	2.4	5.1	2.5	2.5	0	0	0	0

1. Horsepower Per Compressor.

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



Unit Model Application	Electric Heater Kit Models
RQNA-024JK	RXQJ-A05J (208-240 volt, 1-ph, 5kW)
	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
RQNA-030JK	RXQJ-A05J (208-240 volt, 1-ph, 5kW)
	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
RQNA-036JK	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
	RXQJ-A15J (208-240 volt, 1-ph, 15kW)
RQNA-042JK	RXQJ-B10J (208-240 volt, 1-ph, 10kW)
	RXQJ-B15J (208-240 volt, 1-ph, 15kW)
RQNA-048JK	RXQJ-B10J (208-240 volt, 1-ph, 10kW)
	RXQJ-B15J (208-240 volt, 1-ph, 15kW)
RQNA-036CK	RXQJ-A10C (208-240 volt, 3-ph, 10kW)
	RXQJ-A15C (208-240 volt, 3-ph, 15kW)
RQNA-042CK	RXQJ-A10C (208-240 volt, 3-ph, 10kW)
	RXQJ-A15C (208-240 volt, 3-ph, 15kW)
RQNA-048CK	RXQJ-A10C (208-240 volt, 3-ph, 10kW)
	RXQJ-A15C (208-240 volt, 3-ph, 15kW)

## WARNING

**ONLY ELECTRIC HEATER KITS SUPPLIED BY THIS MANUFACTURER AS DESCRIBED IN THIS PUBLICATION HAVE BEEN DESIGNED, TESTED, AND EVALUATED BY A NATIONALLY RECOGNIZED SAFETY TESTING AGENCY FOR USE WITH THIS UNIT. USE OF ANY OTHER MANUFACTURED ELECTRIC HEATERS INSTALLED WITHIN THIS UNIT MAY CAUSE HAZARDOUS CONDITIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.**



**208-240 VOLT, SINGLE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION**

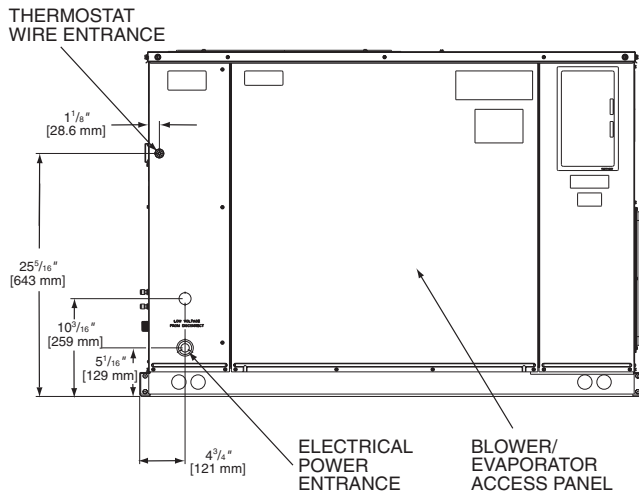
Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit						
Unit Model No. RQNA-	Heater Kit					Heat Pump					Heater Kit			Heat Pump		
	RXQJ-Heater Kit Nominal kW	No. of Elements	No. of Sequence Steps	Rated Heater kW @ 208-240 V	Heater KBTU/Hr @ 208-240 V	Heater Amp. @ 208-240 V	Unit Min. Ckt. Ampacity @ 208-240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208-240 V	Over Current Protective Device Size			
								Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V		
024JK	No Heat	—	—	—	—	—	17/17	20/25	20/25	—	—	17/17	20/25	20/25		
	A05J A10J	1 2	1 2	3.6/4.8 7.2/9.6	12.28/16.38 24.56/32.75	17.3/20.0 34.6/40.0	39/42 60/67	40/40 60/60	45/45 70/70	22/25 44/50	25/25 45/50	—	—	—		
030JK	No Heat	—	—	—	—	—	21/21	25/30	25/30	—	—	21/21	25/30	25/30		
	A05J A10J	1 2	1 2	3.6/4.8 7.2/9.6	12.28/16.38 24.56/32.75	17.3/20.0 34.6/40.0	43/46 64/71	45/50 70/70	50/50 80/80	22/25 44/50	25/25 45/50	—	—	—		
036JK	No Heat	—	—	—	—	—	24/24	30/35	30/35	—	—	24/24	30/35	30/35		
	A10J A15J	2 3	2 2	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	34.6/40.0 51.9/60.0	67/74 88/99	70/70 90/90	80/80 100/100	44/50 65/75	45/50 70/80	—	—	—		
042JK	No Heat	—	—	—	—	—	31/31	35/45	35/45	—	—	31/31	35/45	35/45		
	B10J B15J	2 3	2 2	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	34.6/40.0 51.9/60.0	74/81 96/106	80/80 100/100	90/90 110/110	44/50 65/75	45/50 70/80	—	—	—		
048JK	No Heat	—	—	—	—	—	36/36	45/50	45/50	—	—	36/36	45/50	45/50		
	B10J B15J	2 3	2 2	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	34.6/40.0 51.9/60.0	79/86 101/111	80/90 110/110	90/90 125/125	44/50 65/75	45/50 70/80	—	—	—		

**208-240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION**

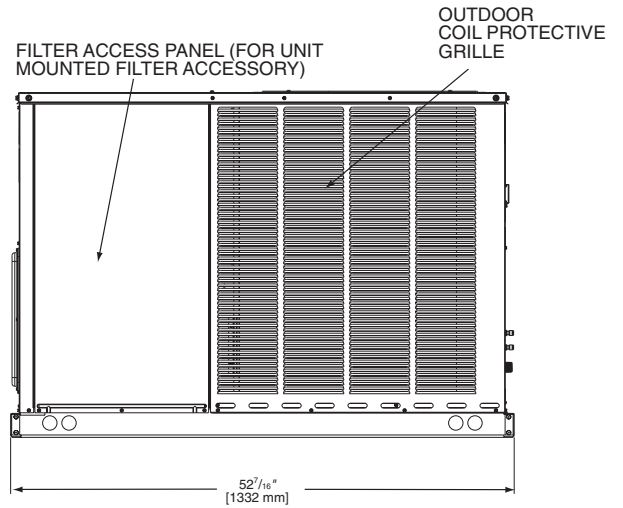
Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit						
Unit Model No. RQNA-	Heater Kit					Heat Pump					Heater Kit			Heat Pump		
	RXQJ-Heater Kit Nominal kW	No. of Elements	No. of Sequence Steps	Rated Heater kW @ 208-240 V	Heater KBTU/Hr @ 208-240 V	Heater Amp. @ 208-240 V	Unit Min. Ckt. Ampacity @ 208-240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208-240 V	Over Current Protective Device Size			
								Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V		
036CK	No Heat	—	—	—	—	—	16/16	20/25	20/25	—	—	16/16	20/25	20/25		
	A10C A15C	3 3	3 3	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	20.0/23.1 30.1/34.7	41/45 54/60	45/45 60/60	45/45 60/60	25/29 38/44	25/30 40/45	—	—	—		
042CK	No Heat	—	—	—	—	—	24/24	30/35	30/35	—	—	24/24	30/35	30/35		
	A10C A15C	3 3	3 3	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	20.0/23.1 30.1/34.7	49/53 62/67	50/50 70/70	60/60 70/70	25/29 38/44	25/30 40/45	—	—	—		
048CK	No Heat	—	—	—	—	—	26/26	30/35	30/35	—	—	26/26	30/35	30/35		
	A10C A15C	3 3	3 3	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	20.0/23.1 30.1/34.7	51/55 63/69	60/60 70/70	60/60 70/70	25/29 38/44	25/30 40/45	—	—	—		



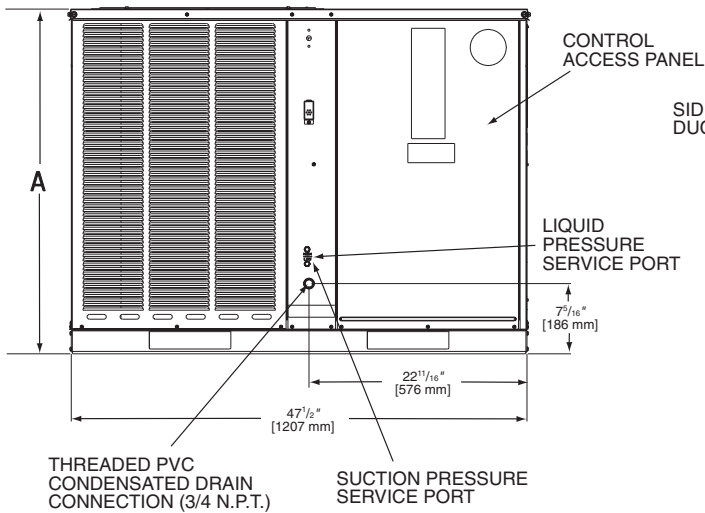
### SIDE VIEW



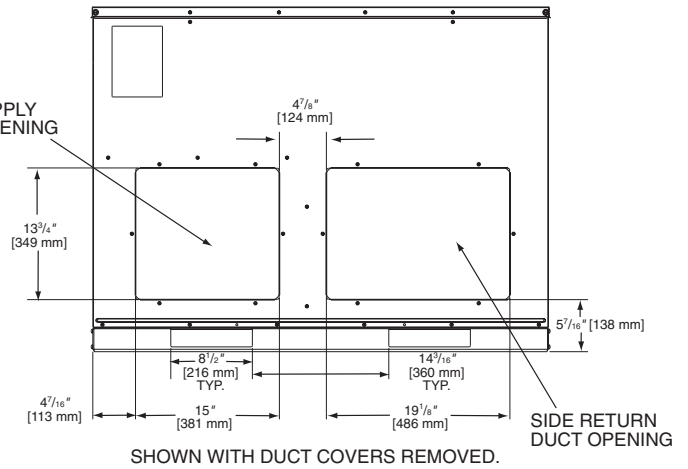
### SIDE VIEW



### FRONT VIEW



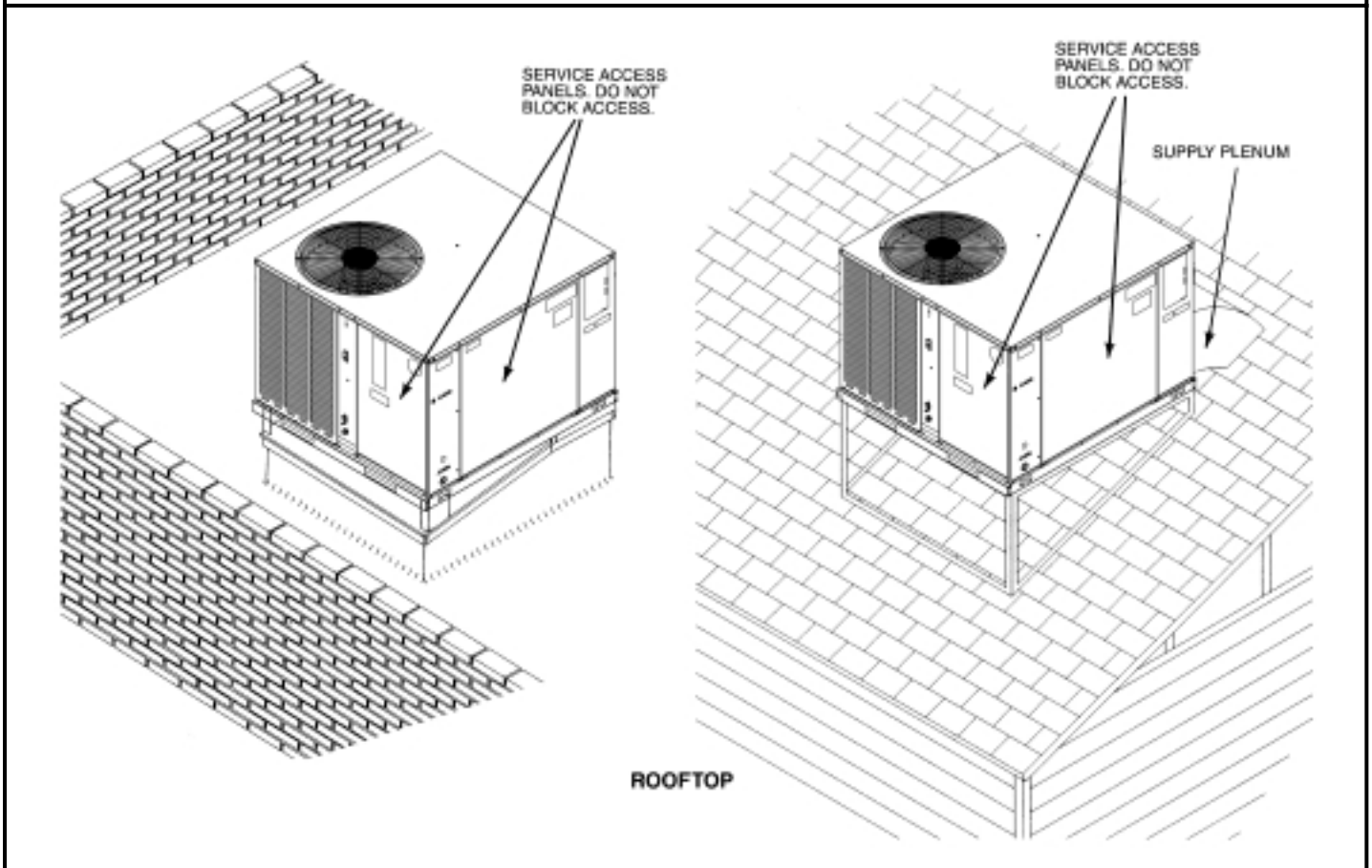
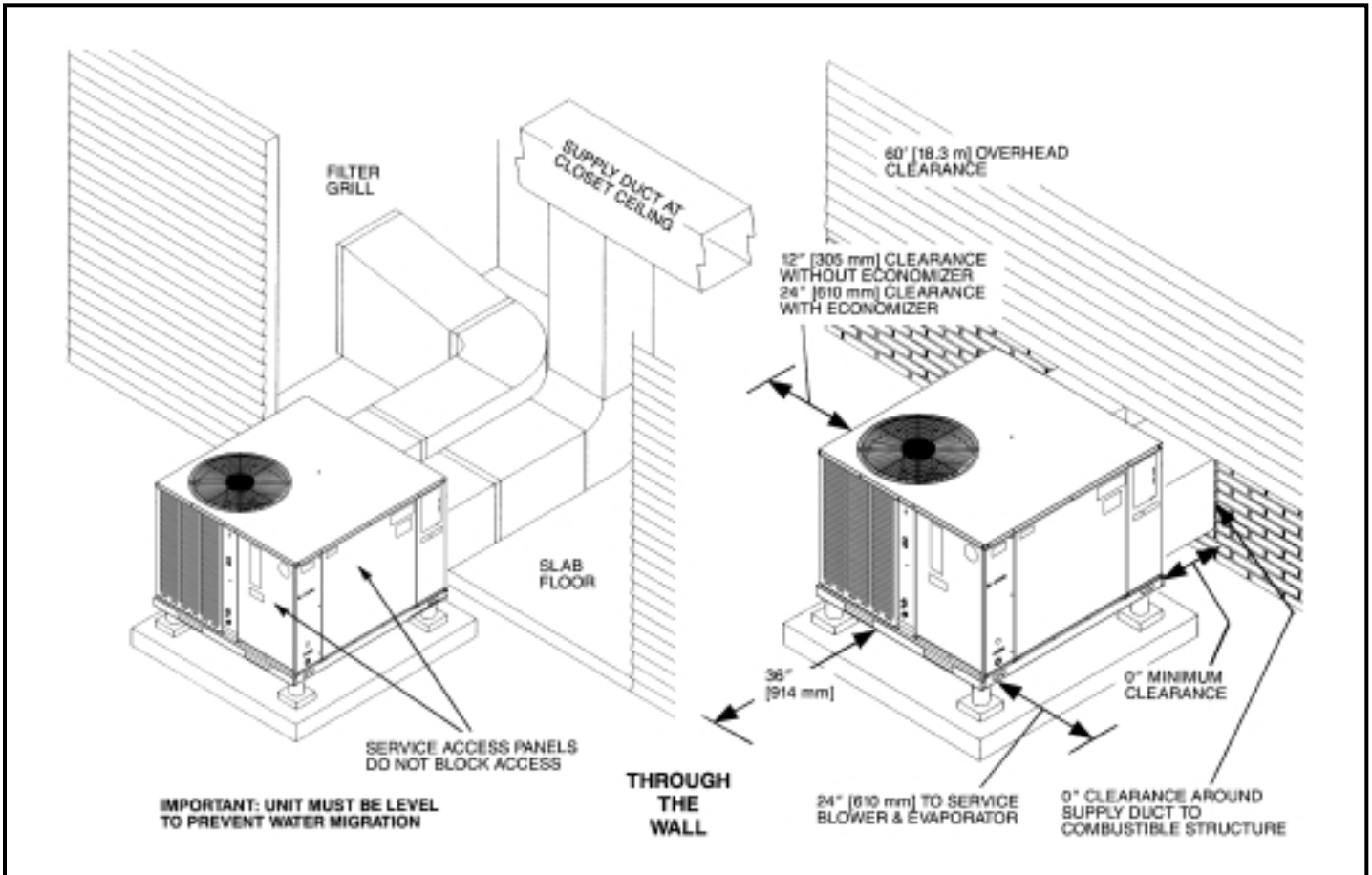
### BACK VIEW



**IMPORTANT:**  
 INSTALLATION MUST NOT INTERFERE WITH DRAINAGE OPENINGS IN BOTTOM OF UNIT UNDER OUTDOOR COIL.

Model Number	Height "A"
024	35 <sup>15</sup> / <sub>16</sub>
030, 036, 042, 048	41

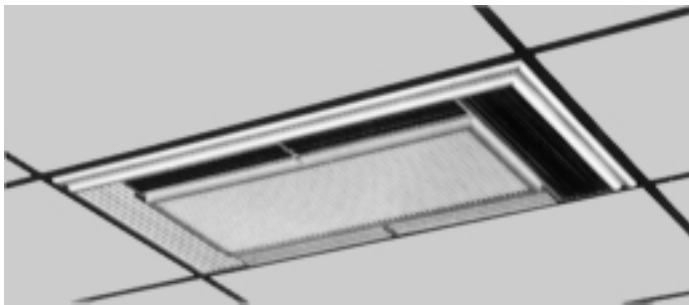
**IMPORTANT:**  
 UNIT MUST BE LEVEL TO PREVENT WATER MIGRATION.



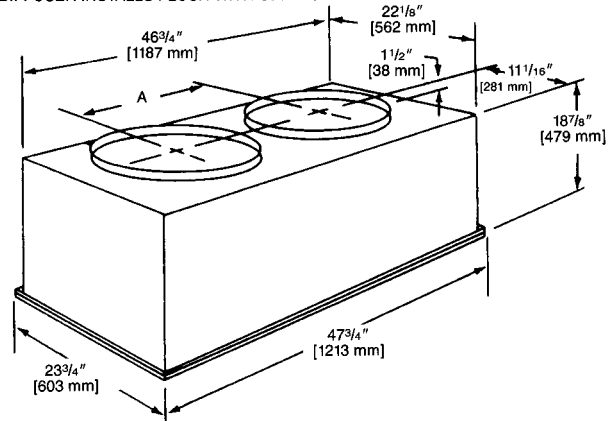
## ACCESSORY EQUIPMENT

Accessory Description	Model Application	Accessory Model No.
Thermostats	RQNA-	See Thermostat Specification Sheet (T11-001)
Roofcurbs	RQNA-	RXQG-AAA14 (14" [356 mm] Height) RXQG-AAA24 (24" [610 mm] Height)
Supply & Return Diffusers	RQNA-	RXRN-D15
Economizers (Downflow Only)	RQNA-	RXRE-CAA30 (3 Position) RXRD-CAM10 (Fully Modulating)
Economizers (Sideflow Only)	RQNA-	RXRD-CCM10 (Fully Modulating) RXRE-CAA30 (3 Position)
Fresh Air Damper	RQNA-	RXRF-FAB1 (Motorized-35%) RXRF-FAA1 (Fixed-35%)
Rectangular to Round Transition (Downflow)	RQNA-	RXMC-CA02 (16" [406 mm] Ducts) RXMC-CA03 (18" [457 mm] Ducts)
Filter Kit	RQNA-	RXRY-01
High Pressure Control	RQNA-	RXAB-A04
Outdoor Thermostat	RQNA-	RXPT-A01
Low Ambient Control	RQNA-	RXPZ-C01 or RXPZ-F01
Duct Adapter Sideflow Square to Round Transition	RQNA-	RXMC-A01

## COMMON SUPPLY/RETURN CONCENTRIC AIR DIFFUSER



DIFFUSER INSTALLS FLUSH WITH CEILING



## SUPPLY/RETURN DIFFUSER



Designed to convert a side by side or an over and under arrangement into a concentric distribution of air. The diffuser is flush mounted, completely insulated, assembled, and internally baffled to provide four way supply air distribution with a center return. To make the assembly complete and ready to fit into a 2' [0.61 m] x 4' [1.22 m] suspended ceiling grid, the diffuser includes adjustable supply louvers, hanging rings, anti-sweat gasket, and round flanges for use with flexible ducts.

Model No.	Diameter Inches [mm]	Shipping Wt. Lbs. [kg]	Dimension A Inches [mm]
RXRN-BD15	16 [406]	90 [40.82]	20 1/2 [521]

**NOTE:** The location of the combination supply and return diffuser should not exceed 10 feet [3.05 m] above the floor level for units @ 1000 CFM [472 L/s] or less and 12 [3.66 m] to 14 feet [4.27 m] above the floor level for units with CFM greater than 1000 [472 L/s]. If the diffuser is installed with a greater distance than recommended above, the supply air may become stratified above the required comfort area causing uncomfortable conditions.

## AIRFLOW/PRESSURE DROP INFORMATION (INCHES W.C. [kPa])

Accessory	Approximate CFM [L/s]-Supply Air			
	1300 [614]	1575 [743]	1800 [850]	2200 [1038]
Plenum & Supply/Return Duct	.07 [.017]	.10 [.024]	.12 [.030]	.17 [.042]
Diffuser	.09 [.022]	.13 [.032]	.16 [.040]	.24 [.060]
Economizer	.06 [.015]	.09 [.022]	.11 [.027]	.17 [.042]

## SUPPLY AIR/PERFORMANCE

Diffuser Airflow CFM [L/s]	Range of Throw Ft. [m]
800 [378]-1200 [566]	14 [4.27]-16 [4.88]
1600 [755]-2000 [944]	18 [5.49]-28 [8.53]

[ ] Designates Metric Conversions



## THERMOSTATS



**300-Series \***  
Deluxe Programmable



**200-Series \***  
Programmable



**100-Series \***  
Non-Programmable

**400-Series \***  
Special Applications/Programmable

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

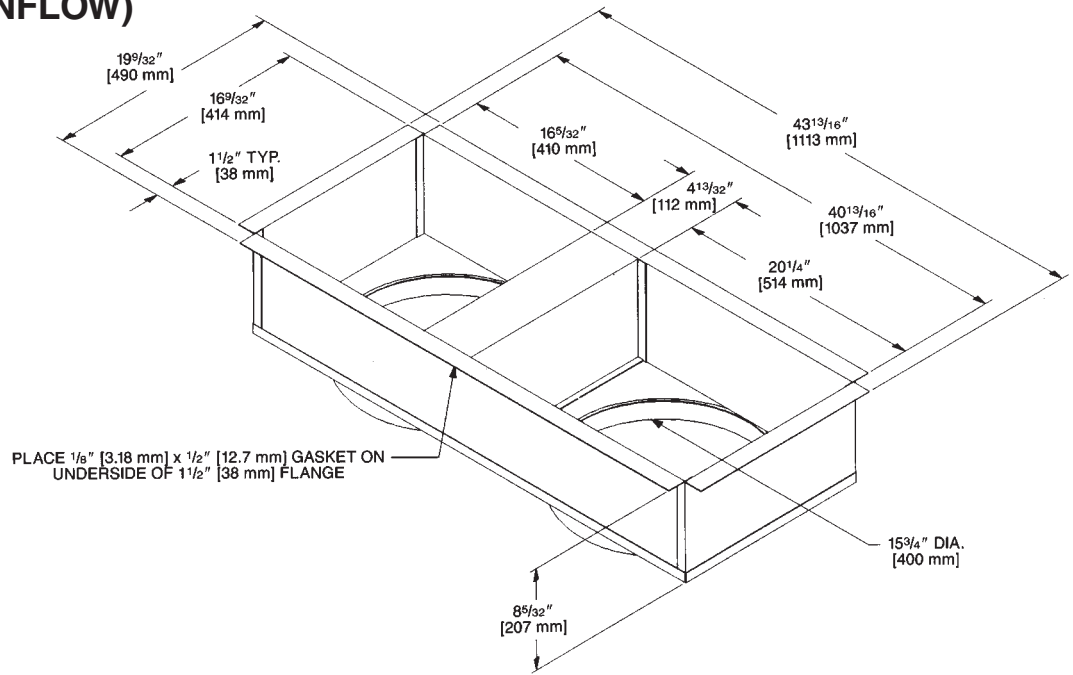
\* Photos are representative. Actual models may vary.

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

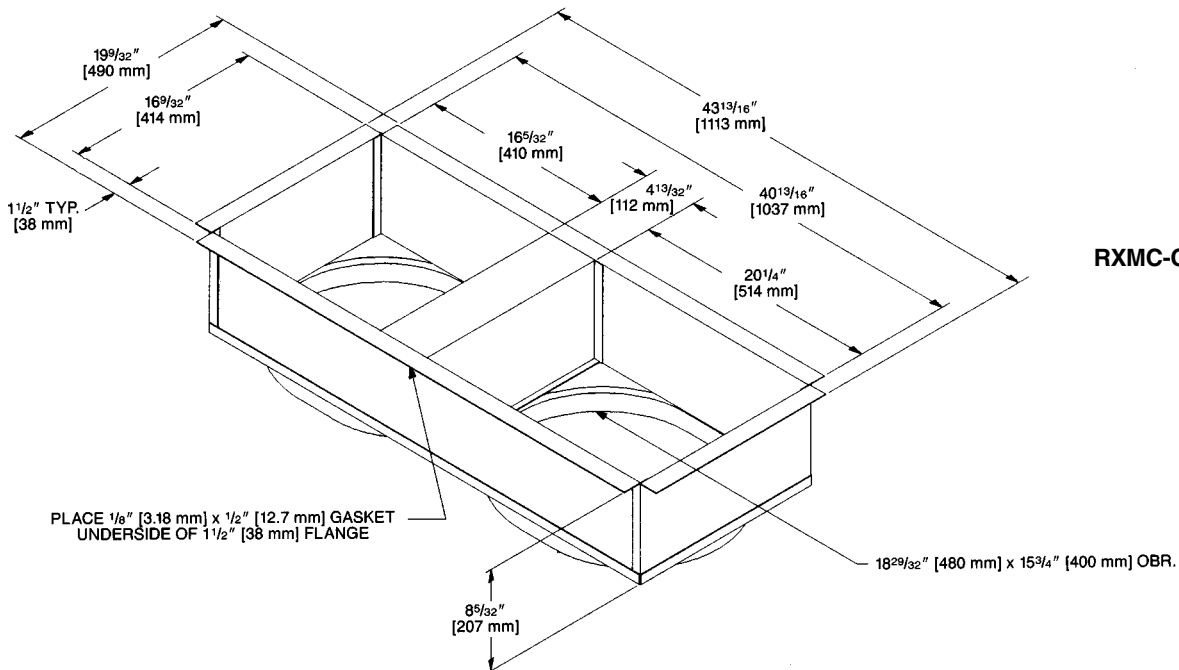


**DUCT ADAPTERS  
RECTANGULAR TO ROUND  
TRANSITIONS (DOWNFLOW)**

**RXMC-CA02**



**RXMC-CA03**



[ ] Designates Metric Conversions

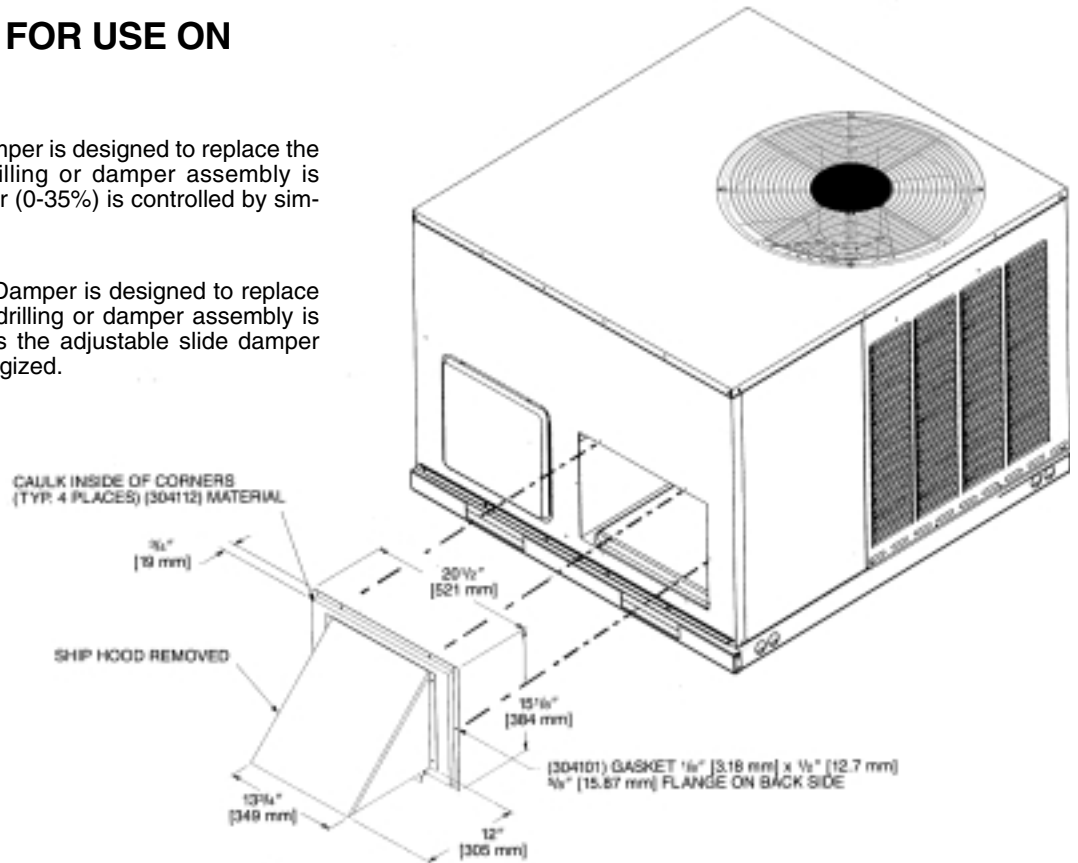
## FRESH AIR DAMPER FOR USE ON RQNA- SERIES

### **RXRF-FAA1 (Fixed - 0-35%)**

The 0-35% manual outside Air Damper is designed to replace the unit return air duct cover. No drilling or damper assembly is required. The amount of outside air (0-35%) is controlled by simply adjusting the side damper.

### **RXRF-FAB1 (Motorized - 0-35%)**

The 0-35% motorized outside Air Damper is designed to replace the unit return air duct cover. No drilling or damper assembly is required. The control motor opens the adjustable slide damper when the unit blower motor is energized.



## ECONOMIZERS

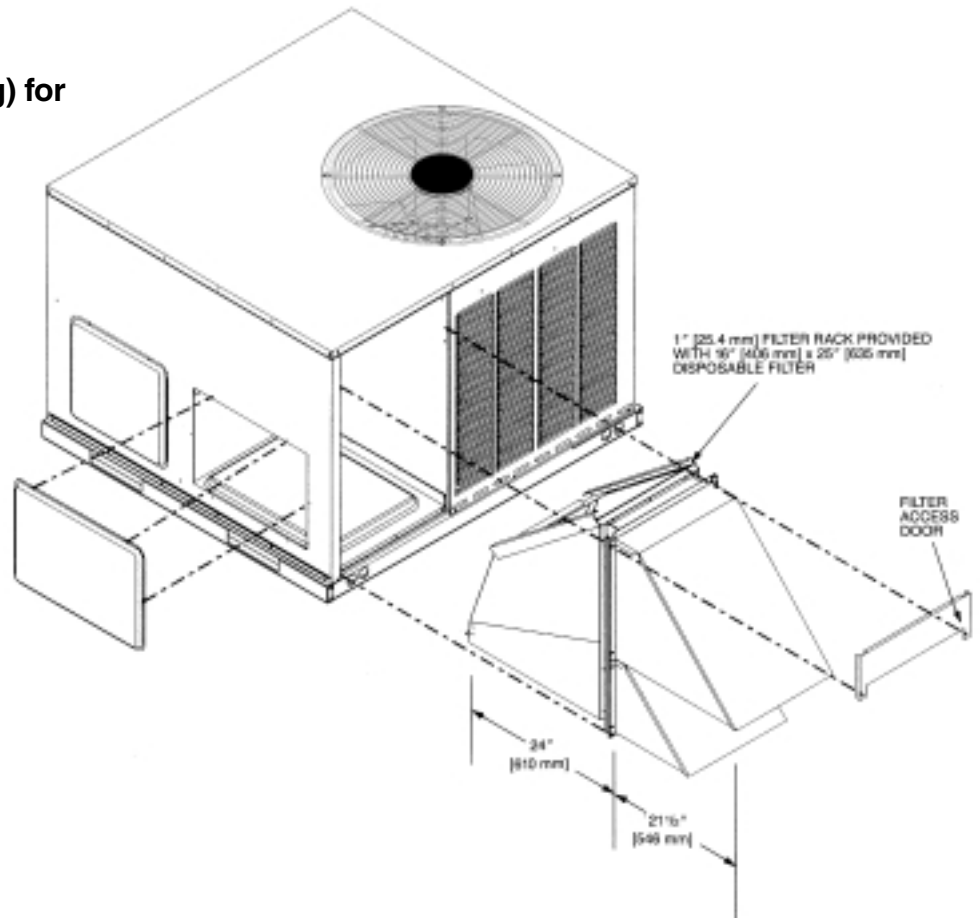
### **RXRE-CAA30 (3 Position) and RXRD-CAM10 (Fully Modulating) for RQNA- Series**

#### **RXRE-CAA30 (3 Position)**

Provided with enthalpy control, and mixed air sensor. Settings include fully open, fully closed and adjustable mid point.

#### **RXRD-CAM10 (Fully Modulating)**

Provided with enthalpy control, mixed air sensor and minimum position potentiometer for proportioning (modulating) the amount of fresh air.



[ ] Designates Metric Conversions

## ECONOMIZERS

### RXRD-CCM10 (Fully Modulating) and RXRE-CCA30 (3 Position) Horizontal Application

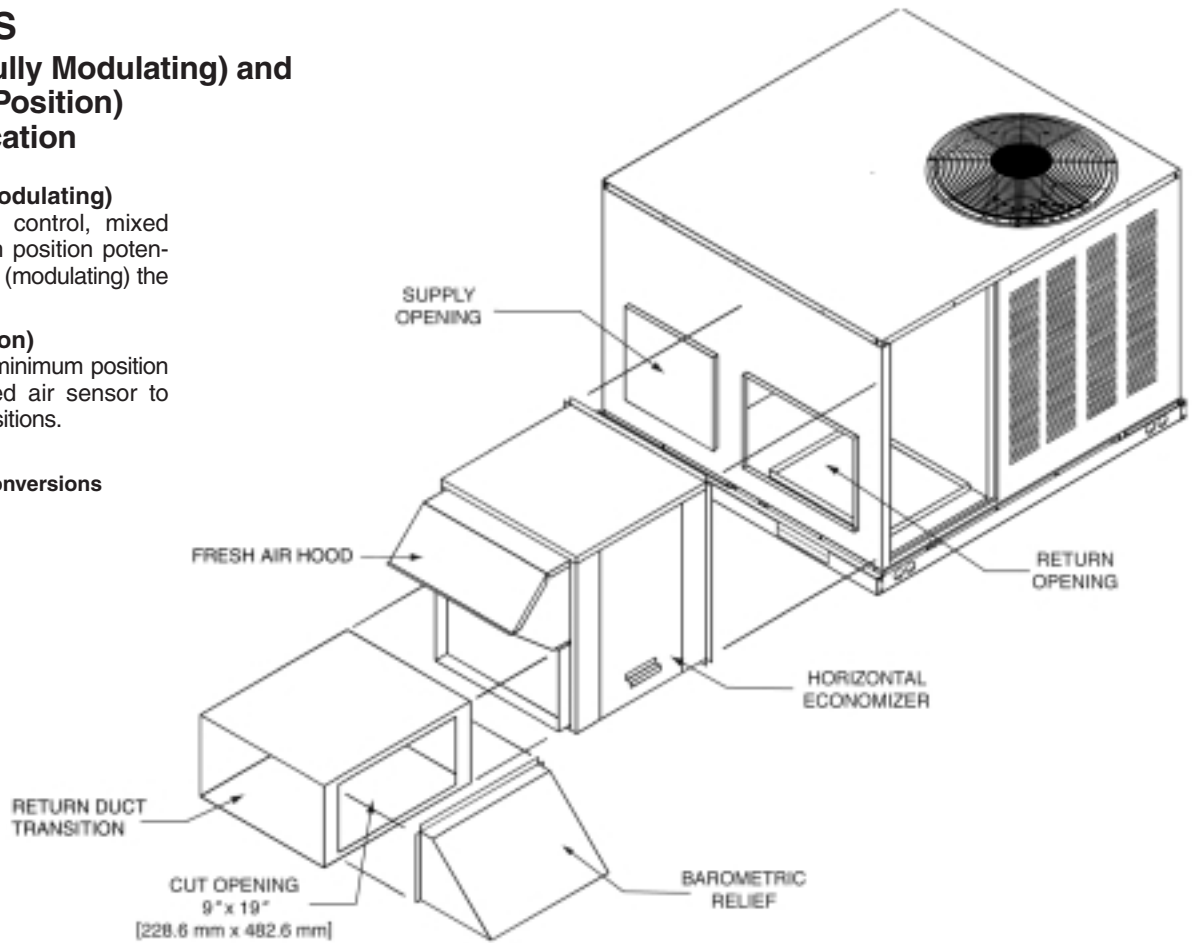
#### RXRD-CCM10 (Fully Modulating)

Provided with enthalpy control, mixed air sensor and minimum position potentiometer for proportioning (modulating) the amount of fresh air.

#### RXRE-CCA30 (3 Position)

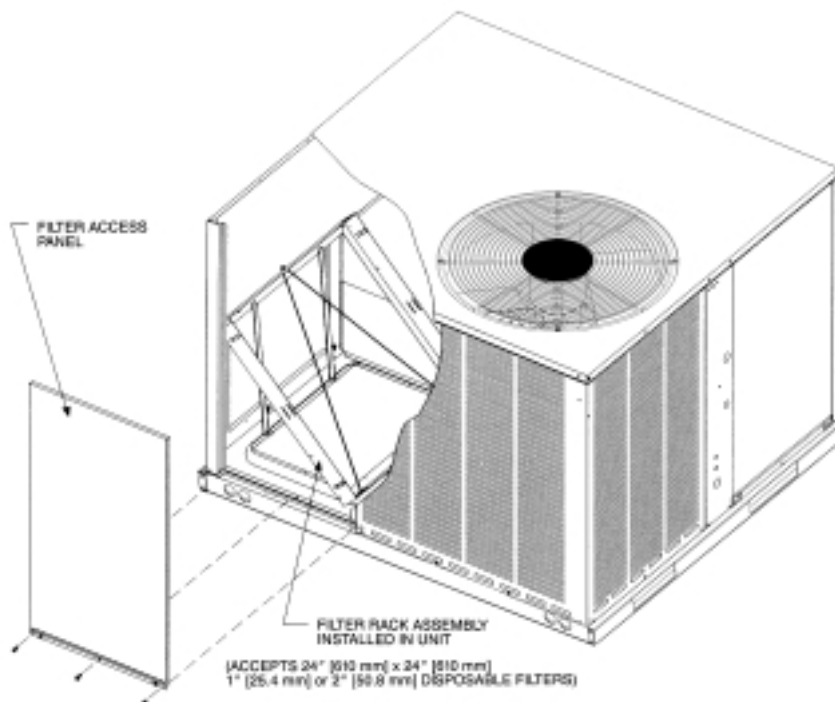
Has outdoor air sensor, minimum position potentiometer and mixed air sensor to provide three damper positions.

[ ] Designates Metric Conversions



## FILTER KIT INSTALLATION RXRY-01

For use in either  
vertical or horizontal  
discharge.



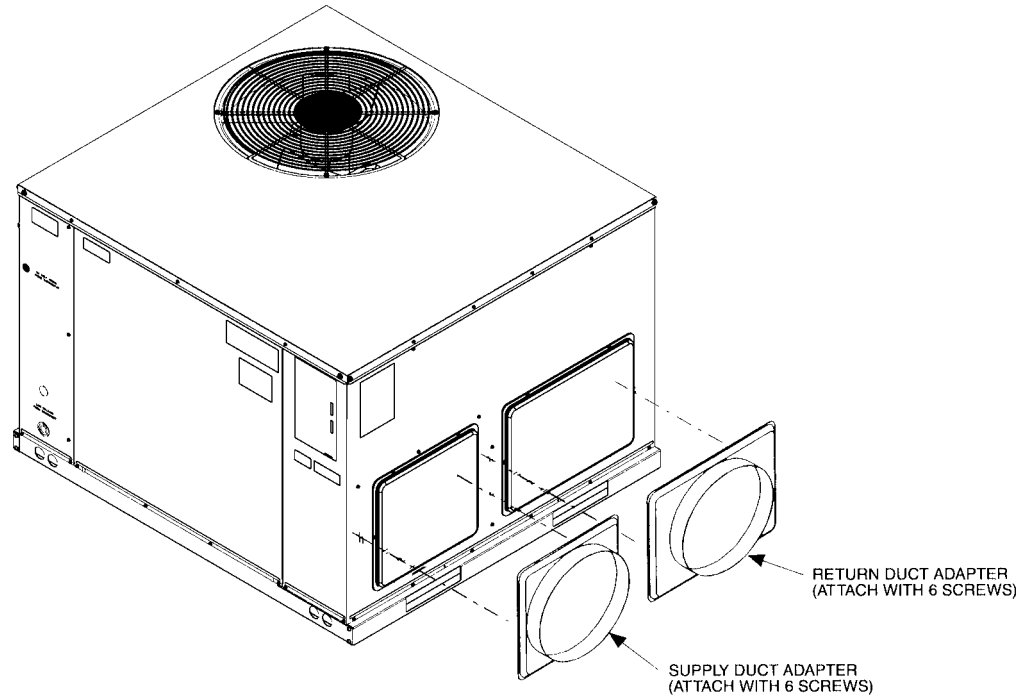
CFM [L/s]		
Minimum Airflow	Nominal Airflow	Maximum Airflow
510 [241]	600 [283]	660 [311]
680 [321]	800 [378]	880 [415]
850 [401]	1000 [472]	1100 [519]
1020 [481]	1200 [566]	1320 [623]
1190 [562]	1400 [661]	1540 [727]
1275 [602]	1500 [708]	1650 [779]
1700 [802]	2000 [944]	2200 [1039]

Airflow Pressure Drop, Inches W.C. [kPa]		
CFM [L/s]	1" Filter	2" Filter
500 [236]	.02 [.0050]	.03 [.0075]
600 [283]	.02 [.0050]	.03 [.0075]
700 [330]	.03 [.0075]	.04 [.0101]
800 [378]	.04 [.0101]	.05 [.0124]
900 [425]	.05 [.0124]	.06 [.0149]
1000 [472]	.07 [.0174]	.08 [.0199]
1100 [519]	.08 [.0199]	.09 [.0224]
1200 [566]	.10 [.0249]	.12 [.0299]
1300 [614]	.13 [.0324]	.15 [.0373]
1400 [661]	.16 [.0398]	.19 [.0473]
1500 [708]	.19 [.0473]	.21 [.0523]
1600 [755]	.20 [.0498]	.23 [.0572]
1700 [802]	.21 [.0523]	.24 [.0598]
1800 [850]	.22 [.0548]	.25 [.0623]
1900 [897]	.24 [.0598]	.27 [.0672]
2000 [944]	.26 [.0647]	.29 [.0722]

[ ] Designates Metric Conversions

## DUCT ADAPTER SIDEFLOW SQUARE TO ROUND TRANSITION RXMC-BA01

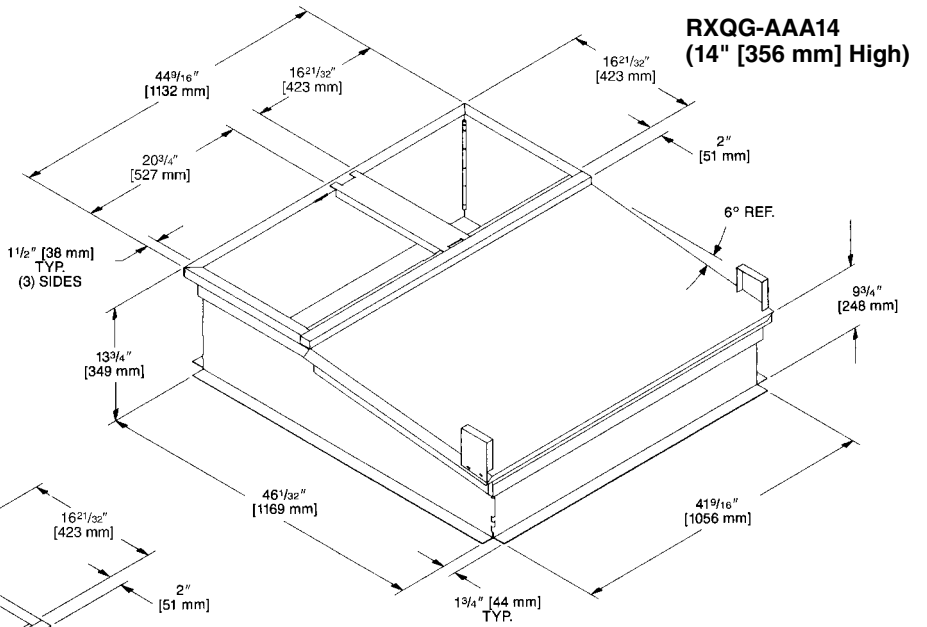
Adapts the side rectangular supply and return openings to 14" [356 mm] diameter round openings. Adapters provided with same finish as unit and also provided with thermal insulation.



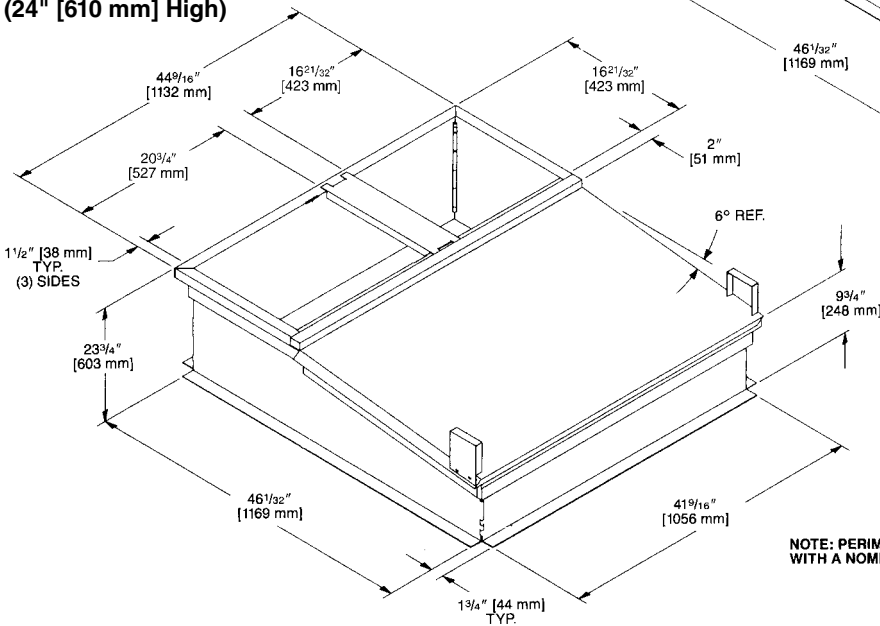
## Roofcurb (Sloped) RXQG-AAA14 & RXQG-AAA24 for RQNA- Series

Heat pump models must use sloped curbs.

Hinged corners make for fast, easy set-up.

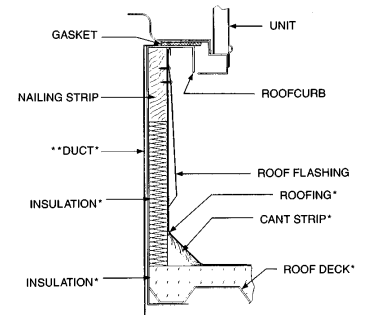
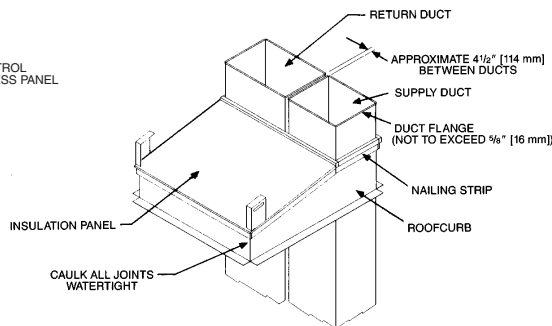
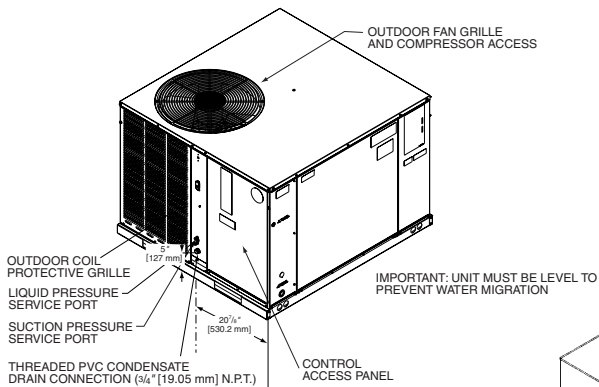


## RXQG-AAA24 (24" [610 mm] High)



NOTE: PERIMETER OF ROOFCURB IS SUPPLIED WITH A NOMINAL 1" [25.4 mm] x 4" [102 mm] PINE NAILING STRIP.

## Packaged Heat Pump Roofcurb Installation (Sloped)



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

## ROOFCURB ADAPTERS

Fabricated from galvanized steel to adapt the New cabinet to the old style curb. All are furnished with a New gasket.

**OLD MODEL PACKAGE  
HEAT PUMP**

**OLD CURB MODEL**

**NEW MODEL TO OLD MODEL  
ROOFCURB ADAPTER**

**NEW MODEL PACKAGE  
HEAT PUMP**

**SMALL CABINET**  
(1½-2 TON) [5.28-7.03 kW]  
RPNC-  
RPND-



RXPA-CA20

**MEDIUM CABINET**  
(2½-3 TON) [8.79-10.55 kW]  
RPNC-  
RPND-



RXPA-CA21

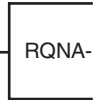
**EXTRA LARGE CABINET**  
(3½-5 TON) [12.31-17.58 kW]  
RPNC-  
RPND-



RXPA-CA23

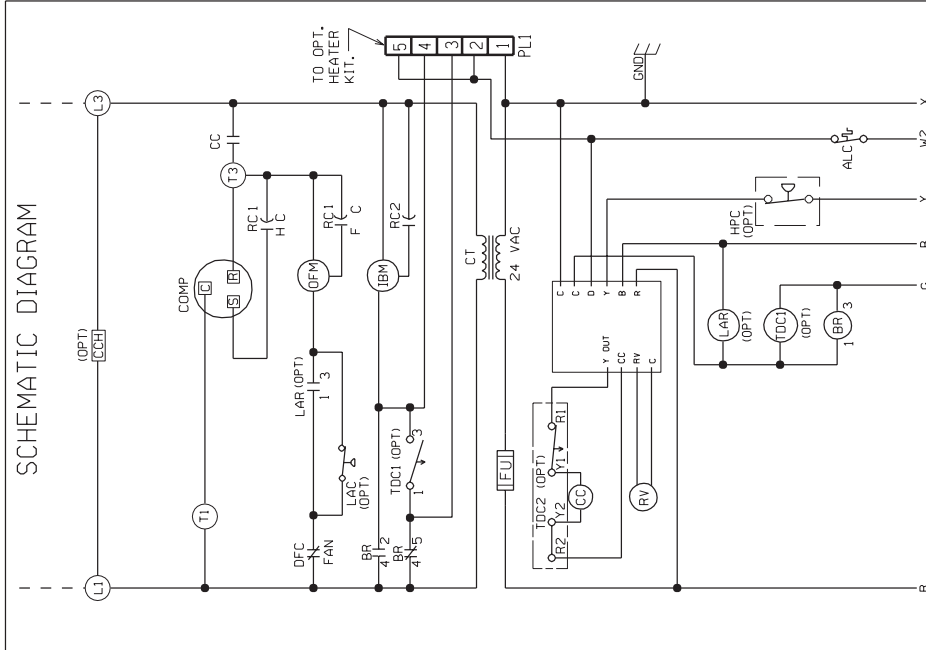
RXPX-BACCA20  
RXPX-BACCA21  
RXPX-BCCCA23

ONLY 1 CABINET SIZE—  
ALL MODELS



- (1) SLOPE TYPE
- (2) FULL PERIMETER TYPE

[ ] Designates Metric Conversions

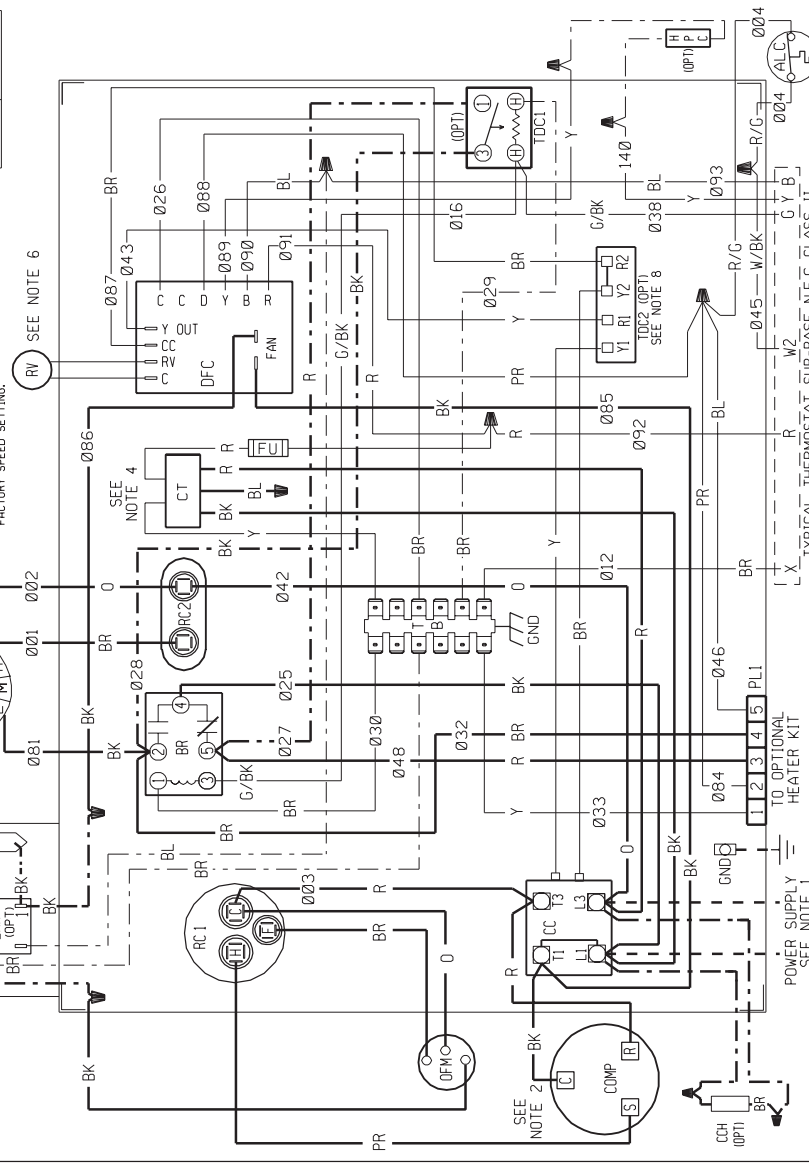


MODEL	FACTORY BLOWER SPEED
2.0 TON	HIGH
2.5 TON	LOW
3.0 TON	HIGH

**NOTE:** BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR THIS MODEL. REFER TO BLOWER AIR-FLOW PERFORMANCE FACTORY SPEED SETTING.



**NOTE:** ALL SWITCHES SHOWN IN COOLING POSITION.



**NOTE:** CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.  
 1. COMPRESSOR MOTOR THERMALLY PROTECTED.  
 2. IF LAC/LAR IS NOT USED, CONNECT BLACK WIRE FROM OPM TO WIRE NUT FROM DR  
 3. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. USE RED AND BLUE LEADS FOR 208 VOLTS.  
 4. MOTOR FACTORY WIRED FOR CORRECT SPEED.  
 5. THIS COMPONENT ENERGIZED IN HEATING.  
 6. SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.  
 7. BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL TDC2 IS NOT PRESENT.

COMPONENT CODE	WIRE COLOR CODE					
ALC	BK	BLACK	GY	GRAY	R	RED
BR	BR	BROWN	O	ORANGE	W	WHITE
CC	BL	BLUE	PK	PINK	Y	YELLOW
CCP	C	GREEN	PR	PURPLE		
CT						
DFC						
FUSE						
GROUND						
HPC						
INDOOR BLOWER MOTOR						

WIRING INFORMATION	ELECTRICAL WIRING DIAGRAM
LINE VOLTAGE	<p><b>PACKAGE HEAT PUMP</b>                      1 PH, 208-230 VOLT                      PSC INDOOR BLOWER MOTOR</p>
-FACTORY STANDARD	
-FACTORY OPTION	
-FIELD INSTALLED	
LOW VOLTAGE	<p><b>REPLACEMENT WIRE</b>                      -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C° MIN.)                      -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., AND LOCAL CODES AS APPLICABLE.</p>
-FACTORY STANDARD	
-FACTORY OPTION	
-FIELD INSTALLED	

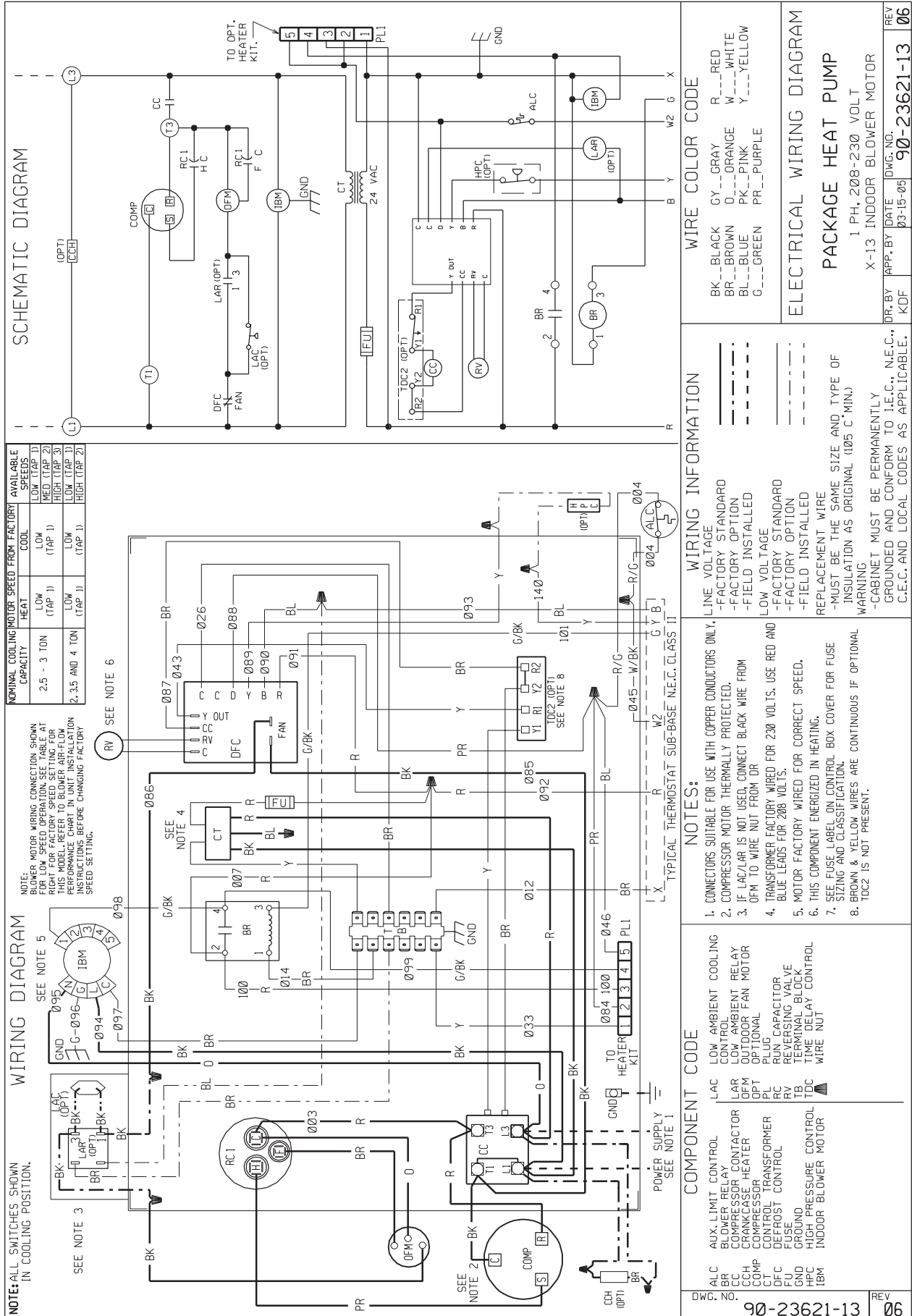
COMPONENT CODE	WIRE COLOR CODE					
ALC	BK	BLACK	GY	GRAY	R	RED
BR	BR	BROWN	O	ORANGE	W	WHITE
CC	BL	BLUE	PK	PINK	Y	YELLOW
CCP	C	GREEN	PR	PURPLE		
CT						
DFC						
FUSE						
GROUND						
HPC						
INDOOR BLOWER MOTOR						

DWG. NO.	90-23621-12	REV	04
DR. BY	APP. BY	DATE	DWG. NO.
KDF	KDF	03-15-06	90-23621-12

DR. BY	APP. BY	DATE	DWG. NO.
KDF	KDF	03-15-06	90-23621-12

DR. BY	APP. BY	DATE	DWG. NO.
KDF	KDF	03-15-06	90-23621-12





**SCHEMATIC DIAGRAM**

**NOMINAL COOLING MOTOR SPEED FROM FACTORY**

CAPACITY	HEAT	COOL	AVAILABLE SPEEDS
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	LOW (TAP 1) MED (TAP 2) HIGH (TAP 3)
2.35 AND 4 TON	LOW (TAP 1)	LOW (TAP 1)	LOW (TAP 1) HIGH (TAP 2)

**NOTE:** BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR THIS MODEL. REFER TO BLOWER AIR-FLOW PERFORMANCE CHART IN UNIT INSTALLATION INSTRUCTIONS BEFORE CHANGING FACTORY SPEED SETTING.

**WIRING DIAGRAM**

**NOTE:** ALL SWITCHES SHOWN IN COOLING POSITION.

**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**

**PACKAGE HEAT PUMP**

1 PH, 208-230 VOLT  
X-13 INDOOR BLOWER MOTOR

**WIRING INFORMATION**

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED.
- IF LAC/LAR IS NOT USED, CONNECT BLACK WIRE FROM OFM TO WIRE NUT FROM DR
- TRANSFORMER FACTORY WIRED FOR 230 VOLTS. USE RED AND BLUE LEADS FOR 208 VOLTS.
- MOTOR FACTORY WIRED FOR CORRECT SPEED.
- THIS COMPONENT ENERGIZED IN HEATING.
- SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.
- BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL TOCC2 IS NOT PRESENT.

**NOTES:**

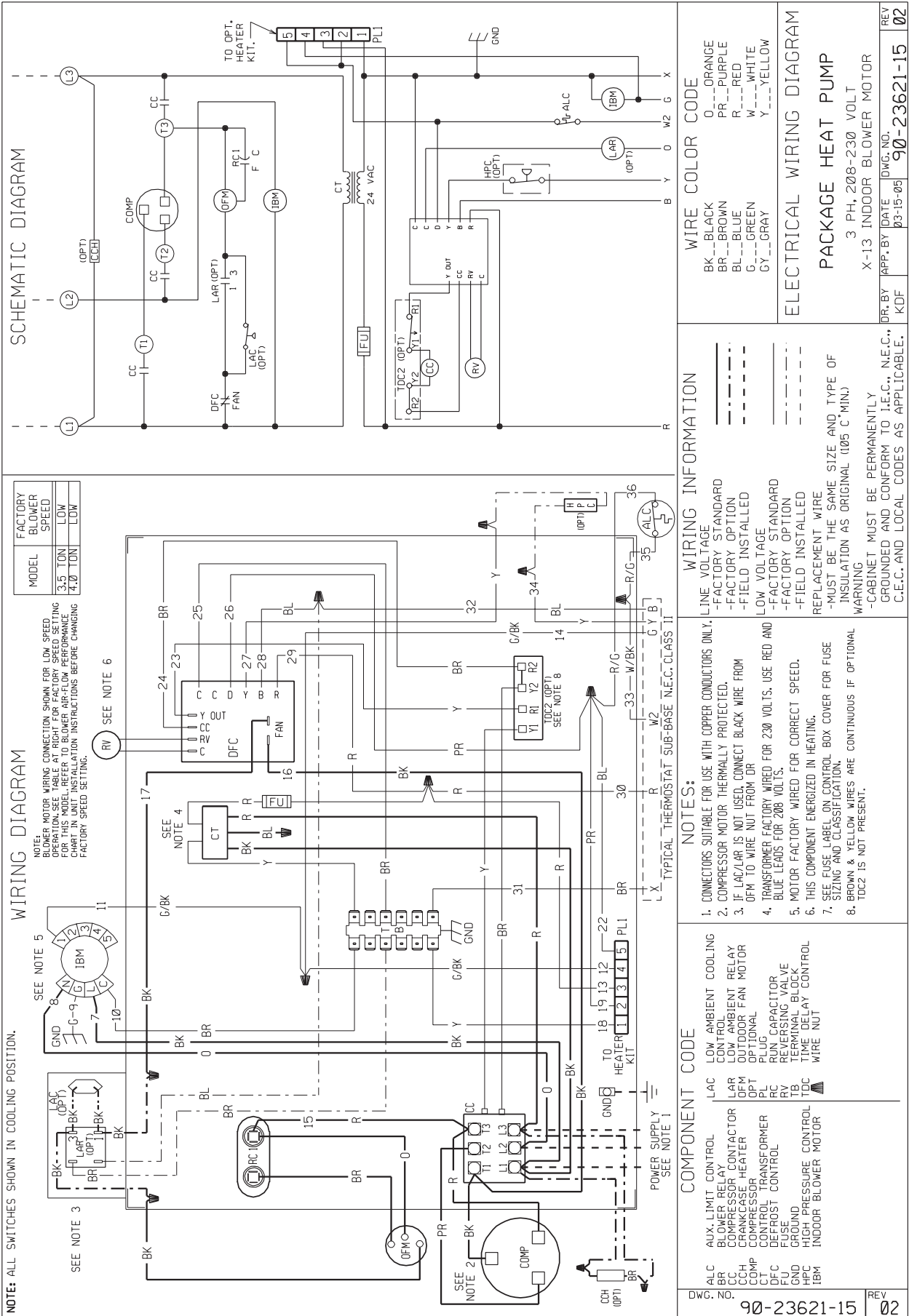
- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED.
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- THIS COMPONENT ENERGIZED IN HEATING.
- SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.
- BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL TOCC2 IS NOT PRESENT.

**COMPONENT CODE**

- AUX LIMIT CONTROL
- BLW RELAY
- COMPRESSOR CONTACTOR
- CRANKCASE HEATER
- COMPRESSOR
- CONTROL TRANSFORMER
- DEFROST CONTROL
- FUSE
- GROUND
- HIGH PRESSURE CONTROL
- INDOOR BLOWER MOTOR
- LAC
- LOW AMBIENT COOLING CONTROL
- LAR
- LOW AMBIENT RELAY
- OUTDOOR FAN MOTOR
- OPTIONAL
- PLUG
- RUN CAPACITOR
- REVERSING VALVE
- TERMINAL BLOCK
- TIME DELAY CONTROL
- WIRE NUT

DR. BY DATE DWG. NO. REV  
APP. BY DATE DWG. NO. REV  
KDF 03-15-05 90-23621-13 06





## SCHEMATIC DIAGRAM

## WIRING DIAGRAM

NOTE: ALL SWITCHES SHOWN IN COOLING POSITION.

NOTE: BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR THIS MODEL. REFER TO BLOWER AIR-FLOW PERFORMANCE TABLE AND INSTALLATION INSTRUCTIONS BEFORE CHANGING FACTORY SPEED SETTING.

NOTE: 1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.  
 2. COMPRESSOR MOTOR THERMALLY PROTECTED.  
 3. IF LAC/LAR IS NOT USED, CONNECT BLACK WIRE FROM OFM TO WIRE NUT FROM DR  
 4. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. USE RED AND BLUE LEADS FOR 208 VOLTS.  
 5. MOTOR FACTORY WIRED FOR CORRECT SPEED.  
 6. THIS COMPONENT ENERGIZED IN HEATING.  
 7. SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.  
 8. BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL REPLACEMENT WIRE.

### WIRE COLOR CODE

BK	BLACK
BR	BROWN
BL	BLUE
W	WHITE
GY	GRAY
O	ORANGE
PR	PURPLE
R	RED
W	WHITE
Y	YELLOW

### ELECTRICAL WIRING DIAGRAM

PACKAGE HEAT PUMP  
 3 PH, 208-230 VOLT  
 X-13 INDOOR BLOWER MOTOR

DR. BY	DATE	DWG. NO.	REV
KDF	03-15-05	90-23621-15	02

### COMPONENT CODE

- AUX. LIMIT CONTROL
- BLOWER RELAY
- COMPRESSOR CONTACTOR
- CRANKCASE HEATER
- COMPRESSOR
- CONTROL TRANSFORMER
- DEFROST CONTROL
- USE AND
- FUSE
- HIGH PRESSURE CONTROL
- INDOOR BLOWER MOTOR
- LAC
- LOW AMBIENT COOLING CONTROL
- LOW AMBIENT RELAY
- OUTDOOR FAN MOTOR
- OPTIONAL PLUG
- RC RUN CAPACITOR
- TRV THERMALLY SENSING VALVE
- TIME DELAY CONTROL
- TDC

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

### WIRING INFORMATION

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED.
- IF LAC/LAR IS NOT USED, CONNECT BLACK WIRE FROM OFM TO WIRE NUT FROM DR
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- MOTOR FACTORY WIRED FOR CORRECT SPEED.
- THIS COMPONENT ENERGIZED IN HEATING.
- SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.
- BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL REPLACEMENT WIRE.

### COMPONENT CODE

- AUX. LIMIT CONTROL
- BLOWER RELAY
- COMPRESSOR CONTACTOR
- CRANKCASE HEATER
- COMPRESSOR
- CONTROL TRANSFORMER
- DEFROST CONTROL
- USE AND
- FUSE
- HIGH PRESSURE CONTROL
- INDOOR BLOWER MOTOR
- LAC
- LOW AMBIENT COOLING CONTROL
- LOW AMBIENT RELAY
- OUTDOOR FAN MOTOR
- OPTIONAL PLUG
- RC RUN CAPACITOR
- TRV THERMALLY SENSING VALVE
- TIME DELAY CONTROL
- TDC

### WIRING INFORMATION

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED.
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### COMPONENT CODE

- AUX. LIMIT CONTROL
- BLOWER RELAY
- COMPRESSOR CONTACTOR
- CRANKCASE HEATER
- COMPRESSOR
- CONTROL TRANSFORMER
- DEFROST CONTROL
- USE AND
- FUSE
- HIGH PRESSURE CONTROL
- INDOOR BLOWER MOTOR
- LAC
- LOW AMBIENT COOLING CONTROL
- LOW AMBIENT RELAY
- OUTDOOR FAN MOTOR
- OPTIONAL PLUG
- RC RUN CAPACITOR
- TRV THERMALLY SENSING VALVE
- TIME DELAY CONTROL
- TDC

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

**GENERAL TERMS OF LIMITED WARRANTY**

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

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

Electric Heating Elements for Optional  
Electric Heating Kits .....Five (5) 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.**

**RHEEM  
AIR CONDITIONING  
DIVISION**

5600 Old Greenwood Road, Fort Smith, Arkansas 72908



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