



# PACKAGE AIR CONDITIONERS

FORM NO. S11-933 REV. 2  
Supersedes Form No. S11-933 Rev. 1

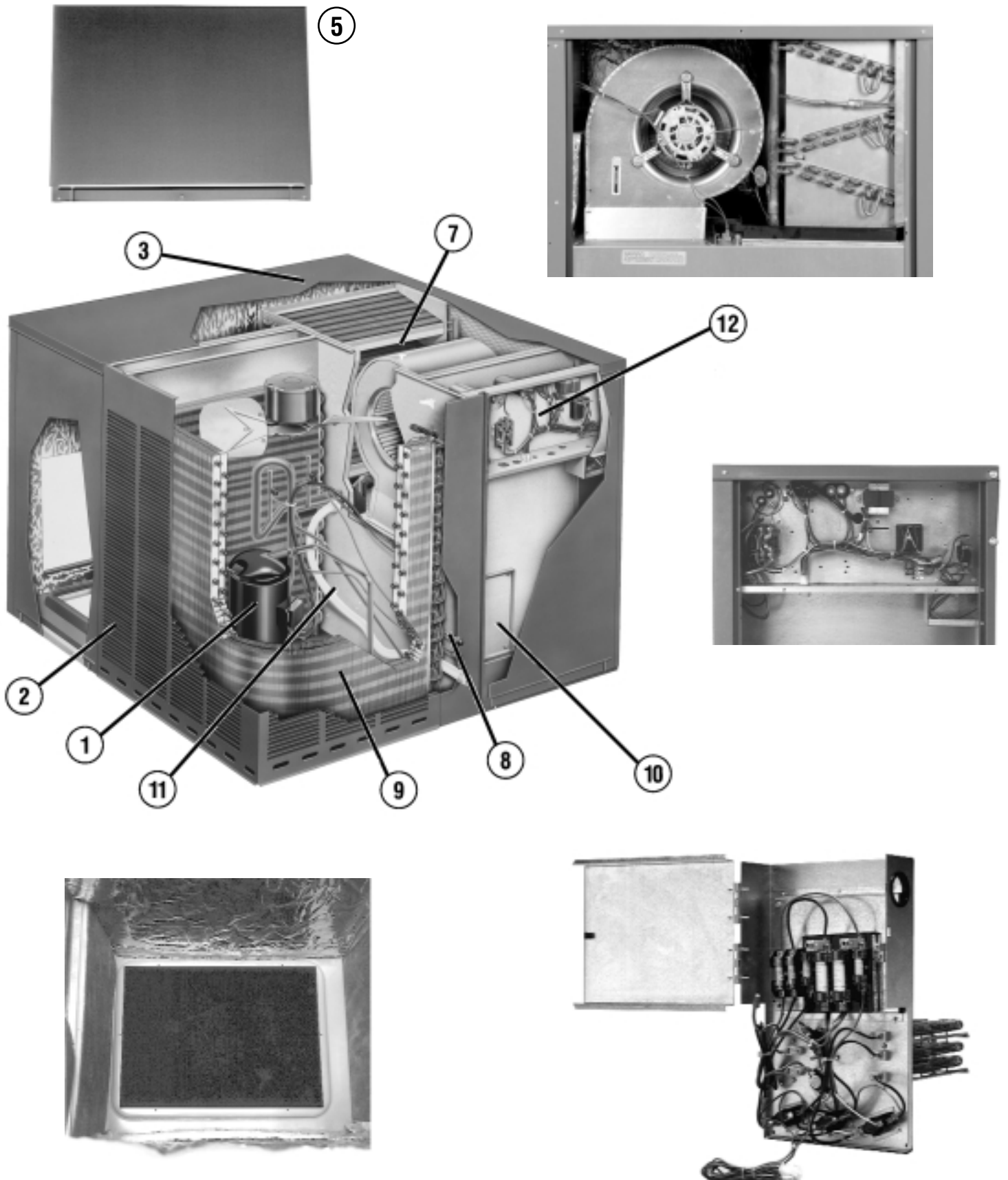
## RSNA-B SUPER HIGH EFFICIENCY 13-SEER SERIES NOMINAL SIZES 2-5 TONS [7.0-17.6 kW]





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*These quality features are included in the Rheem Package Air Conditioner*





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## Features Below Correspond to Photos on Page 3

1. All models feature Copeland® 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 drip lip to help keep water off of the unit sides.
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.
7. Easily accessible blower section complete with slide-out blower.
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—RSNA-B SERIES



**R S N A — B 036 J K 010 X X**

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]  
060 = 60,000 [17.59]

Future Technical Variations

Design Series  
B = 2nd Design

Efficiency Designation  
N = 13 SEER Super High Efficiency

Product Classification  
S = Package Air Conditioner

Tradebrand  
R = Rheem

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## 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
AK	x

Example: RSNA-B036JK000**XX** (where **XX** is factory installed option)

Example: No Options

RSNA-B036JK000

Example: Options with Sideflow

RSNA-B036JK000AK

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



## NOMINAL SIZES 2-5 TONS [7.0-17.6 kW]

Model RSNA-B Series	B024JK	B030JK	B036CK	B036JK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	24,800 [7.27]	31,200 [9.14]	37,400 [10.96]	37,400 [10.96]
EER/SEER <sup>2</sup>	11.8/13	11.1/13	11.7/13	11.7/13
Nominal CFM/ARI Rated CFM [L/s]	800/800 [378/378]	1000/1000 [472/472]	1200/1200 [566/566]	1200/1200 [566/566]
ARI Net Cooling Capacity Btu [kW]	24,000 [7.03]	30,000 [8.79]	36,000 [10.55]	36,000 [10.55]
Net Sensible Capacity Btu [kW]	17,171 [5.03]	20,984 [6.15]	25,736 [7.54]	25,736 [7.54]
Net Latent Capacity Btu [kW]	6,829 [2]	9,016 [2.64]	10,264 [3.01]	10,264 [3.01]
Net System Power kW	2.04	2.7	3.07	3.07
<b>Compressor</b>				
No./Type	1/Copeland Scroll	1/Copeland Scroll	1/Copeland Scroll	1/Copeland Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	76	76	76	76
<b>Outdoor Coil—Fin Type</b>	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]	10.56 [0.98]	10.56 [0.98]	14.8 [1.37]	14.8 [1.37]
Rows / FPI [FPcm]	1 / 18 [7]	1 / 18 [7]	1 / 22 [9]	1 / 22 [9]
<b>Indoor Coil—Fin Type</b>	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]	5.54 [0.51]	5.54 [0.51]	5.54 [0.51]
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]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan—Type</b>	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]	2500 [1180]	2500 [1180]	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
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/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/4	1/2	1/2	1/2
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
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>	69.6 [1973]	72 [2041]	83.2 [2359]	83.2 [2359]
<b>Weights</b>				
Net Weight lbs. [kg]	370 [168]	379 [178]	392 [178]	392 [178]
Ship Weight lbs. [kg]	379 [172]	388 [176]	401 [182]	401 [182]

See Page 10 for Notes.

[ ] Designates Metric Conversions



## NOMINAL SIZES 2-5 TONS [7.0-17.6 kW]

Model RSNA-B Series	B042CK	B042JK	B048CK	B048JK
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	42,500 [12.45]	42,500 [12.45]	50,500 [14.8]	50,500 [14.8]
EER/SEER <sup>2</sup>	11.5/13	11.5/13	11.6/13	11.6/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1350 [661/637]	1400/1350 [661/637]	1600/1600 [755/755]	1600/1600 [755/755]
ARI Net Cooling Capacity Btu [kW]	41,000 [12.01]	41,000 [12.01]	48,500 [14.21]	48,500 [14.21]
Net Sensible Capacity Btu [kW]	28,511 [8.35]	28,511 [8.35]	34,516 [10.11]	34,516 [10.11]
Net Latent Capacity Btu [kW]	12,489 [3.66]	12,489 [3.66]	13,984 [4.1]	13,984 [4.1]
Net System Power kW	3.57	3.57	4.18	4.18
<b>Compressor</b>				
No./Type	1/Copeland Scroll	1/Copeland Scroll	1/Copeland Scroll	1/Copeland Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	76	76	78	78
<b>Outdoor Coil—Fin Type</b>	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]	16.65 [1.55]	16.65 [1.55]	16.23 [1.51]	16.23 [1.51]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 22 [9]	2 / 22 [9]
<b>Indoor Coil—Fin Type</b>	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]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan—Type</b>	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]	3500 [1652]	3500 [1652]	3300 [1557]	3300 [1557]
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
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/3	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	3/4	3/4
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
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>	104 [2948]	104 [2948]	153.6 [4355]	153.6 [4355]
<b>Weights</b>				
Net Weight lbs. [kg]	447 [203]	447 [203]	499 [226]	499 [226]
Ship Weight lbs. [kg]	456 [207]	456 [207]	508 [230]	508 [230]

See Page 10 for Notes.

[ ] Designates Metric Conversions





## NOMINAL SIZES 2-5 TONS [7.0-17.6 kW]

Model RSNA-B Series	B060CK	B060JK
<b>Cooling Performance<sup>1</sup></b>		
Gross Cooling Capacity Btu [kW]	60,000 [17.58]	60,000 [17.58]
EER/SEER <sup>2</sup>	11.1/13	11.1/13
Nominal CFM/ARI Rated CFM [L/s]	2000/1850 [897/873]	2000/1850 [897/873]
ARI Net Cooling Capacity Btu [kW]	58,000 [16.99]	58,000 [16.99]
Net Sensible Capacity Btu [kW]	40,561 [11.88]	40,561 [11.88]
Net Latent Capacity Btu [kW]	17,439 [5.11]	17,439 [5.11]
Net System Power kW	5.2	5.2
<b>Compressor</b>		
No./Type	1/Copeland Scroll	1/Copeland Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>		
	78	78
<b>Outdoor Coil—Fin Type</b>		
Tube 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]	16.23 [1.51]	16.23 [1.51]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]
<b>Indoor Coil—Fin Type</b>		
Tube Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan—Type</b>		
	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	3300 [1557]	3300 [1557]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
<b>Indoor Fan—Type</b>		
	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/2
No. Motors	1	1
Motor HP	1	1
Motor RPM	1075	1075
Motor Frame Size	48	48
<b>Filter—Type</b>		
	Field Supplied	Field Supplied
Furnished	No	No
(No.) Size Recommended in. [mm]	(1)1x24x30 [25x610x762]	(1)1x24x30 [25x610x762]
<b>Refrigerant Charge Oz. [g]</b>		
	145.6 [4128]	145.6 [4128]
<b>Weights</b>		
Net Weight lbs. [kg]	521 [236]	521 [236]
Ship Weight lbs. [kg]	530 [240]	530 [240]

See Page 10 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  $\pm 20\%$  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. Outdoor Sound Rating shown is tested in accordance with ARI Standard 270.

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# SYSTEMS PERFORMANCE—RSNA-B SERIES

## GROSS SYSTEMS PERFORMANCE DATA—RSNA-B024

		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]	880 [415]	800 [378]	680 [321]	880 [415]	800 [378]	680 [321]	880 [415]	800 [378]
		DR ①	.21	.20	.18	.21	.20	.18	.21	.20	.18
OUTDOOR DRY BULB TEMPERATURE °C	75 [23.9]	Total BTUH [kW]	28.9 [8.47]	28.4 [8.32]	27.6 [8.09]	27.3 [8.00]	26.8 [7.85]	26.1 [7.65]	25.0 [7.33]	24.6 [7.21]	23.9 [7.00]
		Sens BTUH [kW]	16.2 [4.75]	15.4 [4.51]	14.4 [4.22]	19.5 [5.71]	18.6 [5.45]	17.3 [5.07]	22.0 [6.45]	21.1 [6.18]	19.6 [5.74]
		Power	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	80 [26.7]	Total BTUH [kW]	28.9 [8.47]	28.4 [8.32]	27.6 [8.09]	27.2 [7.97]	26.8 [7.85]	26.0 [7.62]	25.0 [7.33]	24.5 [7.18]	23.9 [7.00]
		Sens BTUH [kW]	16.1 [4.72]	15.4 [4.51]	14.3 [4.19]	19.5 [5.71]	18.6 [5.45]	17.3 [5.07]	22.0 [6.45]	21.0 [6.15]	19.6 [5.74]
		Power	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.4	1.4
	85 [29.4]	Total BTUH [kW]	28.5 [8.35]	28.0 [8.21]	27.2 [7.97]	26.9 [7.88]	26.4 [7.54]	25.7 [7.53]	24.6 [7.21]	24.1 [7.06]	23.5 [6.89]
		Sens BTUH [kW]	16.0 [4.69]	15.3 [4.48]	14.2 [4.16]	19.3 [5.66]	18.5 [5.42]	17.2 [5.04]	21.9 [6.42]	20.9 [6.13]	19.5 [5.71]
		Power	1.6	1.6	1.5	1.6	1.6	1.5	1.5	1.5	1.5
	90 [32.2]	Total BTUH [kW]	27.8 [8.15]	27.3 [8.00]	26.6 [7.80]	26.2 [7.68]	25.7 [7.53]	25.0 [7.33]	23.9 [7.00]	23.5 [6.89]	22.8 [6.68]
Sens BTUH [kW]		15.8 [4.63]	15.1 [4.43]	14.0 [4.10]	19.1 [5.60]	18.3 [5.36]	17.0 [4.98]	21.7 [6.36]	20.7 [6.07]	19.3 [5.66]	
Power		1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	
95 [35]	Total BTUH [kW]	27.0 [7.91]	26.5 [7.77]	25.8 [7.56]	25.3 [7.41]	24.8 [7.27]	24.2 [7.09]	23.0 [6.74]	22.6 [6.62]	22.0 [6.45]	
	Sens BTUH [kW]	15.5 [4.54]	14.8 [4.34]	13.8 [4.04]	18.9 [5.54]	18.0 [5.28]	16.8 [4.92]	21.4 [6.27]	20.5 [6.01]	19.0 [5.57]	
	Power	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	
100 [37.8]	Total BTUH [kW]	26.0 [7.62]	25.5 [7.47]	24.8 [7.27]	24.3 [7.12]	23.9 [7.00]	23.2 [6.80]	22.1 [6.48]	21.7 [6.36]	21.1 [6.18]	
	Sens BTUH [kW]	15.2 [4.45]	14.5 [4.25]	13.5 [3.96]	18.5 [5.42]	17.7 [5.19]	16.4 [4.81]	21.1 [6.18]	20.1 [5.89]	18.7 [5.48]	
	Power	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	
105 [40.6]	Total BTUH [kW]	25.0 [7.33]	24.5 [7.18]	23.9 [7.00]	23.3 [6.83]	22.9 [6.71]	22.3 [6.54]	21.1 [6.18]	20.7 [6.07]	20.1 [5.89]	
	Sens BTUH [kW]	14.7 [4.31]	14.1 [4.13]	13.1 [3.84]	18.1 [5.30]	17.3 [5.07]	16.1 [4.72]	20.6 [6.04]	19.7 [5.77]	18.3 [5.36]	
	Power	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	
110 [43.3]	Total BTUH [kW]	24.1 [7.06]	23.7 [6.95]	23.0 [6.74]	22.4 [6.56]	22.0 [6.45]	21.4 [6.27]	20.2 [5.92]	19.8 [5.80]	19.3 [5.66]	
	Sens BTUH [kW]	14.3 [4.19]	13.6 [3.99]	12.7 [3.72]	17.6 [5.16]	16.8 [4.92]	15.6 [4.57]	20.1 [5.89]	19.2 [5.63]	17.9 [5.25]	
	Power	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
115 [46.1]	Total BTUH [kW]	23.3 [6.83]	22.9 [6.71]	22.3 [6.54]	21.7 [6.36]	21.3 [6.24]	20.7 [6.07]	19.4 [5.69]	19.1 [5.60]	18.5 [5.42]	
	Sens BTUH [kW]	13.7 [4.02]	13.1 [3.84]	12.2 [3.58]	17.0 [4.98]	16.3 [4.78]	15.1 [4.43]	19.4 [5.69]	18.7 [5.48]	17.4 [5.10]	
	Power	2.3	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	

## GROSS SYSTEMS PERFORMANCE DATA—RSNA-B030

		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]	1100 [519]	1000 [472]	850 [401]	1100 [519]	1000 [472]	850 [401]	1100 [519]	1000 [472]
		DR ①	.24	.23	.21	.24	.23	.21	.24	.23	.21
OUTDOOR DRY BULB TEMPERATURE °C	75 [23.9]	Total BTUH [kW]	37.6 [11.02]	36.9 [10.81]	35.9 [10.52]	35.0 [10.26]	34.4 [10.08]	33.4 [9.79]	33.6 [9.85]	33.0 [9.67]	32.1 [9.41]
		Sens BTUH [kW]	21.3 [6.24]	20.3 [5.95]	18.9 [5.54]	25.2 [7.39]	24.1 [7.06]	22.4 [6.56]	27.2 [7.97]	26.0 [7.62]	24.2 [7.09]
		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]	37.1 [10.87]	36.4 [10.67]	35.4 [10.37]	34.5 [10.11]	33.9 [9.94]	32.9 [9.64]	33.1 [9.70]	32.5 [9.52]	31.6 [9.26]
		Sens BTUH [kW]	20.8 [6.10]	19.9 [5.83]	18.5 [5.42]	24.7 [7.24]	23.6 [6.92]	22.0 [6.45]	26.7 [7.83]	25.5 [7.47]	23.8 [6.98]
		Power	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	85 [29.4]	Total BTUH [kW]	36.3 [10.64]	35.6 [10.43]	34.7 [10.17]	33.7 [9.88]	33.1 [9.70]	32.2 [9.44]	32.3 [9.47]	31.7 [9.29]	30.9 [9.06]
		Sens BTUH [kW]	20.3 [5.95]	19.4 [5.69]	18.0 [5.28]	24.2 [7.09]	23.1 [6.77]	21.5 [6.30]	26.2 [7.68]	25.1 [7.36]	23.3 [6.83]
		Power	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.1	2.1
	90 [32.2]	Total BTUH [kW]	35.3 [10.35]	34.7 [10.17]	33.8 [9.91]	32.8 [9.61]	32.2 [9.44]	31.3 [9.17]	31.4 [9.20]	30.8 [9.03]	30.0 [8.79]
Sens BTUH [kW]		19.8 [5.80]	18.9 [5.54]	17.6 [5.16]	23.7 [6.95]	22.6 [6.62]	21.1 [6.18]	25.7 [7.53]	24.6 [7.21]	22.9 [6.71]	
Power		2.3	2.3	2.2	2.3	2.2	2.2	2.3	2.2	2.2	
95 [35]	Total BTUH [kW]	34.3 [10.05]	33.7 [9.88]	32.8 [9.61]	31.7 [9.29]	31.2 [9.14]	30.3 [8.88]	30.3 [8.88]	29.8 [8.73]	29.0 [8.50]	
	Sens BTUH [kW]	19.3 [5.66]	18.4 [5.39]	17.1 [5.01]	23.2 [6.80]	22.1 [6.48]	20.6 [6.04]	25.2 [7.39]	24.1 [7.06]	22.4 [6.56]	
	Power	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.3	
100 [37.8]	Total BTUH [kW]	33.2 [9.73]	32.6 [9.55]	31.7 [9.29]	30.6 [8.97]	30.1 [8.82]	29.3 [8.59]	29.2 [8.56]	28.7 [8.41]	27.9 [8.18]	
	Sens BTUH [kW]	18.7 [5.48]	17.9 [5.25]	16.6 [4.86]	22.7 [6.65]	21.6 [6.33]	20.1 [5.89]	24.7 [7.24]	23.6 [6.92]	21.9 [6.42]	
	Power	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.4	
105 [40.6]	Total BTUH [kW]	32.1 [9.41]	31.6 [9.26]	30.7 [9.00]	29.6 [8.67]	29.0 [8.50]	28.3 [8.29]	28.2 [8.26]	27.7 [8.12]	26.9 [7.88]	
	Sens BTUH [kW]	18.2 [5.33]	17.4 [5.10]	16.2 [4.75]	22.1 [6.48]	21.2 [6.21]	19.7 [5.77]	24.2 [7.09]	23.1 [6.77]	21.5 [6.30]	
	Power	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	
110 [43.3]	Total BTUH [kW]	31.2 [9.14]	30.6 [8.97]	29.8 [8.73]	28.6 [8.38]	28.1 [8.24]	27.3 [8.00]	27.2 [7.97]	26.7 [7.83]	26.0 [7.62]	
	Sens BTUH [kW]	17.7 [5.19]	16.9 [4.95]	15.7 [4.60]	21.6 [6.33]	20.7 [6.07]	19.2 [5.63]	23.7 [6.95]	22.6 [6.62]	21.0 [6.15]	
	Power	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	
115 [46.1]	Total BTUH [kW]	30.4 [8.91]	29.8 [8.73]	29.0 [8.50]	27.8 [8.15]	27.3 [8.00]	26.6 [7.80]	26.4 [7.74]	25.9 [7.59]	25.2 [7.39]	
	Sens BTUH [kW]	17.2 [5.04]	16.5 [4.84]	15.3 [4.48]	21.1 [6.18]	20.2 [5.92]	18.8 [5.51]	23.2 [6.80]	22.1 [6.48]	20.6 [6.04]	
	Power	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

# SYSTEMS PERFORMANCE—RSNA-B SERIES



## GROSS SYSTEMS PERFORMANCE DATA—RSNA-B036

		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]		1320 [623]	1200 [566]	1020 [481]	1320 [623]	1200 [566]	1020 [481]	1320 [623]	1200 [566]	1020 [481]	
DR ①		.21	.20	.17	.21	.20	.17	.21	.20	.17	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	44.4 [13.01] 25.5 [7.47] 2.2	43.6 [12.78] 24.4 [7.15] 2.1	42.4 [12.43] 22.7 [6.65] 2.1	41.3 [12.10] 30.4 [8.91] 2.1	40.6 [11.90] 29.1 [8.53] 2.1	39.5 [11.58] 27.0 [7.91] 2.1	39.6 [11.61] 31.4 [9.20] 2.1	38.9 [11.40] 30.0 [8.79] 2.1	37.8 [11.08] 27.9 [8.18] 2.1
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	43.6 [12.78] 25.0 [7.33] 2.3	42.8 [12.54] 23.9 [7.00] 2.3	41.7 [12.22] 22.2 [6.51] 2.2	40.5 [11.87] 29.9 [8.76] 2.3	39.8 [11.66] 28.6 [8.38] 2.3	38.7 [11.34] 26.6 [7.80] 2.2	38.7 [11.34] 30.8 [9.03] 2.3	38.0 [11.14] 29.5 [8.65] 2.3	37.0 [10.84] 27.4 [8.03] 2.2
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	42.8 [12.54] 24.5 [7.18] 2.4	42.1 [12.34] 23.4 [6.86] 2.4	40.9 [11.99] 21.8 [6.39] 2.4	39.7 [11.63] 29.4 [8.62] 2.4	39.0 [11.43] 28.1 [8.24] 2.4	38.0 [11.14] 26.1 [7.65] 2.4	38.0 [11.14] 30.3 [8.88] 2.4	37.3 [10.93] 29.0 [8.50] 2.4	36.3 [10.64] 27.0 [7.91] 2.4
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	42.0 [12.31] 24.0 [7.03] 2.6	41.3 [12.10] 22.9 [6.71] 2.5	40.2 [11.78] 21.3 [6.24] 2.5	38.9 [11.40] 28.9 [8.47] 2.6	38.3 [11.22] 27.6 [8.09] 2.5	37.2 [10.90] 25.7 [7.53] 2.5	37.2 [10.90] 29.9 [8.76] 2.5	36.5 [10.70] 28.5 [8.35] 2.5	35.5 [10.40] 26.5 [7.77] 2.5
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	41.1 [12.05] 23.5 [6.89] 2.7	40.4 [11.84] 22.4 [6.56] 2.7	39.3 [11.52] 20.9 [6.13] 2.6	38.0 [11.14] 28.4 [8.32] 2.7	37.4 [10.96] 27.1 [7.94] 2.7	36.3 [10.64] 25.2 [7.39] 2.6	36.3 [10.64] 29.3 [8.59] 2.7	35.6 [10.43] 28.0 [8.21] 2.7	34.7 [10.17] 26.0 [7.62] 2.6
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	40.0 [11.72] 22.8 [6.68] 2.8	39.3 [11.52] 21.8 [6.39] 2.8	38.2 [11.20] 20.3 [5.95] 2.8	36.9 [10.81] 27.7 [8.12] 2.8	36.3 [10.64] 26.5 [7.77] 2.8	35.3 [10.35] 24.6 [7.21] 2.8	35.2 [10.32] 28.7 [8.41] 2.8	34.5 [10.11] 27.4 [8.03] 2.8	33.6 [9.85] 25.5 [7.47] 2.8
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	38.6 [11.31] 22.1 [6.48] 3.0	37.9 [11.11] 21.1 [6.18] 3.0	36.9 [10.81] 19.6 [5.74] 2.9	35.5 [10.40] 26.9 [7.88] 3.0	34.9 [10.23] 25.7 [7.53] 2.9	33.9 [9.94] 23.9 [7.00] 2.9	33.8 [9.91] 27.9 [8.18] 3.0	33.2 [9.73] 26.6 [7.80] 2.9	32.3 [9.47] 24.8 [7.27] 2.9
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	36.9 [10.81] 21.1 [6.18] 3.1	36.2 [10.61] 20.1 [5.89] 3.1	35.2 [10.32] 18.7 [5.48] 3.1	33.8 [9.91] 26.0 [7.62] 3.1	33.1 [9.70] 24.8 [7.27] 3.1	32.2 [9.44] 23.1 [6.77] 3.0	32.0 [9.38] 26.9 [7.88] 3.1	31.4 [9.20] 25.7 [7.53] 3.1	30.6 [8.97] 23.9 [7.00] 3.0
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	34.6 [10.14] 19.9 [5.83] 3.3	34.0 [9.96] 19.0 [5.57] 3.2	33.1 [9.70] 17.7 [5.19] 3.2	31.5 [9.23] 24.8 [7.27] 3.2	30.9 [9.06] 23.7 [6.95] 3.2	30.1 [8.82] 22.0 [6.45] 3.2	29.7 [8.70] 25.7 [7.53] 3.2	29.2 [8.56] 24.6 [7.21] 3.2	28.4 [8.32] 22.9 [6.71] 3.2

## GROSS SYSTEMS PERFORMANCE DATA—RSNA-B042

		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]		1490 [703]	1350 [637]	1150 [543]	1490 [703]	1350 [637]	1150 [543]	1490 [703]	1350 [637]	1150 [543]	
DR ①		.24	.23	.21	.24	.23	.21	.24	.23	.21	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	51.1 [14.98] 28.1 [8.24] 2.6	50.2 [14.71] 26.9 [7.88] 2.6	48.8 [14.30] 25.0 [7.33] 2.5	47.7 [13.98] 33.4 [9.79] 2.5	46.9 [13.75] 31.9 [9.35] 2.5	45.6 [13.36] 29.7 [8.70] 2.5	45.2 [13.25] 37.9 [11.11] 2.5	44.3 [12.98] 36.2 [10.61] 2.5	43.1 [12.63] 33.6 [9.85] 2.5
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	50.1 [14.68] 27.9 [8.18] 2.7	49.2 [14.42] 26.7 [7.83] 2.7	47.8 [14.01] 24.8 [7.27] 2.7	46.7 [13.69] 33.2 [9.73] 2.7	45.9 [13.45] 31.7 [9.29] 2.7	44.6 [13.07] 29.5 [8.65] 2.6	44.1 [12.92] 37.6 [11.02] 2.7	43.3 [12.69] 36.0 [10.55] 2.7	42.2 [12.37] 33.5 [9.82] 2.6
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	49.0 [14.36] 27.5 [8.06] 2.9	48.1 [14.10] 26.3 [7.71] 2.8	46.8 [13.72] 24.5 [7.18] 2.8	45.6 [13.36] 32.8 [9.61] 2.8	44.8 [13.13] 31.3 [9.17] 2.8	43.6 [12.78] 29.1 [8.53] 2.8	43.1 [12.63] 37.2 [10.90] 2.8	42.3 [12.40] 35.6 [10.43] 2.8	41.1 [12.05] 33.1 [9.70] 2.8
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	47.9 [14.04] 27.0 [7.91] 3.0	47.0 [13.77] 25.8 [7.56] 3.0	45.8 [13.42] 24.0 [7.03] 2.9	44.5 [13.04] 32.2 [9.44] 3.0	43.7 [12.81] 30.8 [9.03] 3.0	42.5 [12.46] 28.6 [8.38] 2.9	42.0 [12.31] 36.7 [10.76] 3.0	41.2 [12.07] 35.0 [10.26] 2.9	40.1 [11.75] 32.6 [9.55] 2.9
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	46.8 [13.72] 26.3 [7.71] 3.2	45.9 [13.45] 25.1 [7.36] 3.1	44.7 [13.10] 23.4 [6.86] 3.1	43.4 [12.72] 31.5 [9.23] 3.1	42.6 [12.48] 30.1 [8.82] 3.1	41.4 [12.13] 28.0 [8.21] 3.1	40.8 [11.96] 36.0 [10.55] 3.1	40.1 [11.75] 34.4 [10.08] 3.1	39.0 [11.43] 32.0 [9.38] 3.0
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	45.6 [13.36] 25.6 [7.50] 3.3	44.8 [13.13] 24.4 [7.15] 3.3	43.6 [12.78] 22.7 [6.65] 3.2	42.2 [12.37] 30.8 [9.03] 3.3	41.5 [12.16] 29.4 [8.62] 3.2	40.4 [11.84] 27.4 [8.03] 3.2	39.7 [11.63] 35.3 [10.35] 3.3	39.0 [11.43] 33.7 [9.88] 3.2	37.9 [11.11] 31.3 [9.17] 3.2
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	44.5 [13.04] 24.8 [7.27] 3.4	43.7 [12.81] 23.7 [6.95] 3.4	42.5 [12.46] 22.1 [6.48] 3.4	41.1 [12.05] 30.1 [8.82] 3.4	40.4 [11.84] 28.7 [8.41] 3.4	39.3 [11.52] 26.7 [7.83] 3.3	38.6 [11.31] 34.5 [10.11] 3.4	37.9 [11.11] 33.0 [9.67] 3.4	36.8 [10.79] 30.7 [9.00] 3.3
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	43.4 [12.72] 24.2 [7.09] 3.6	42.6 [12.48] 23.1 [6.77] 3.6	41.5 [12.16] 21.5 [6.30] 3.5	40.0 [11.72] 29.4 [8.62] 3.6	39.3 [11.52] 28.1 [8.24] 3.5	38.2 [11.20] 26.1 [7.65] 3.5	37.5 [10.99] 33.9 [9.94] 3.5	36.8 [10.79] 32.4 [9.50] 3.5	35.8 [10.49] 30.1 [8.82] 3.5
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	42.3 [12.40] 23.6 [6.92] 3.7	41.6 [12.19] 22.5 [6.59] 3.7	40.4 [11.84] 21.0 [6.15] 3.7	39.0 [11.43] 28.8 [8.44] 3.7	38.3 [11.22] 27.5 [8.06] 3.7	37.2 [10.90] 25.6 [7.50] 3.6	36.4 [10.67] 33.3 [9.76] 3.7	35.7 [10.46] 31.8 [9.32] 3.7	34.8 [10.20] 29.6 [8.67] 3.6

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

[ ] Designates Metric Conversions



# SYSTEMS PERFORMANCE—RSNA-B SERIES

## GROSS SYSTEMS PERFORMANCE DATA—RSNA-B048

		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]	1760 [831]	1600 [755]	1360 [642]	1760 [831]	1600 [755]	1360 [642]	1760 [831]	1600 [755]
		DR ①	.20	.19	.17	.20	.19	.17	.20	.19	.17
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	60.8 [17.82]	59.7 [17.50]	58.1 [17.03]	56.4 [16.53]	55.4 [16.24]	53.9 [15.80]	53.1 [15.56]	52.2 [15.30]	50.8 [14.89]
		Sens BTUH [kW]	36.3 [10.64]	34.7 [10.17]	32.3 [9.47]	41.5 [12.16]	39.7 [11.63]	36.9 [10.81]	48.2 [14.13]	46.0 [13.48]	42.8 [12.54]
		Power	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8
	80 [26.7]	Total BTUH [kW]	59.9 [17.55]	58.8 [17.23]	57.2 [16.76]	55.5 [16.27]	54.5 [15.97]	53.0 [15.53]	52.3 [15.33]	51.3 [15.03]	49.9 [14.62]
		Sens BTUH [kW]	35.2 [10.32]	33.7 [9.88]	31.3 [9.17]	40.4 [11.84]	38.6 [11.31]	35.9 [10.52]	47.1 [13.80]	45.0 [13.19]	41.8 [12.25]
		Power	3.1	3.1	3.0	3.1	3.1	3.0	3.0	3.0	3.0
	85 [29.4]	Total BTUH [kW]	58.8 [17.23]	57.7 [16.91]	56.1 [16.44]	54.4 [15.94]	53.4 [15.65]	51.9 [15.21]	51.1 [14.98]	50.2 [14.71]	48.8 [14.30]
		Sens BTUH [kW]	34.3 [10.05]	32.8 [9.61]	30.5 [8.94]	39.5 [11.58]	37.7 [11.05]	35.1 [10.29]	46.1 [13.51]	44.1 [12.92]	41.0 [12.02]
		Power	3.3	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.1
	90 [32.2]	Total BTUH [kW]	57.4 [16.82]	56.4 [16.53]	54.8 [16.06]	53.0 [15.53]	52.0 [15.24]	50.6 [14.83]	49.7 [14.57]	48.8 [14.30]	47.5 [13.92]
Sens BTUH [kW]		33.5 [9.82]	32.0 [9.38]	29.8 [8.73]	38.7 [11.34]	37.0 [10.84]	34.4 [10.08]	45.3 [13.28]	43.4 [12.72]	40.3 [11.81]	
Power		3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	
95 [35]	Total BTUH [kW]	55.9 [16.38]	54.9 [16.09]	53.4 [15.65]	51.5 [15.09]	50.6 [14.83]	49.2 [14.42]	48.2 [14.13]	47.4 [13.89]	46.1 [13.51]	
	Sens BTUH [kW]	33.1 [9.70]	31.6 [9.26]	29.4 [8.62]	38.3 [11.22]	36.6 [10.73]	34.0 [9.96]	45.0 [13.19]	42.9 [12.57]	39.9 [11.69]	
	Power	3.6	3.6	3.5	3.6	3.6	3.5	3.5	3.5	3.5	
100 [37.8]	Total BTUH [kW]	54.3 [15.91]	53.3 [15.62]	51.9 [15.21]	49.9 [14.62]	49.0 [14.36]	47.7 [13.98]	46.7 [13.69]	45.8 [13.42]	44.6 [13.07]	
	Sens BTUH [kW]	33.0 [9.67]	31.5 [9.23]	29.3 [8.59]	38.2 [11.20]	36.5 [10.70]	34.0 [9.96]	45.0 [13.19]	42.9 [12.57]	39.9 [11.69]	
	Power	3.8	3.7	3.7	3.8	3.7	3.7	3.7	3.7	3.6	
105 [40.6]	Total BTUH [kW]	52.8 [15.47]	51.8 [15.18]	50.4 [14.77]	48.4 [14.18]	47.5 [13.92]	46.2 [13.54]	45.1 [13.22]	44.3 [12.98]	43.1 [12.63]	
	Sens BTUH [kW]	33.4 [9.79]	31.9 [9.35]	29.7 [8.70]	38.6 [11.31]	36.9 [10.81]	34.3 [10.05]	45.1 [13.22]	43.2 [12.66]	40.2 [11.78]	
	Power	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.8	
110 [43.3]	Total BTUH [kW]	51.3 [15.03]	50.4 [14.77]	49.0 [14.36]	46.9 [13.75]	46.1 [13.51]	44.8 [13.13]	43.6 [12.78]	42.9 [12.57]	41.7 [12.22]	
	Sens BTUH [kW]	34.4 [10.08]	32.9 [9.64]	30.6 [8.97]	39.6 [11.61]	37.8 [11.08]	35.2 [10.32]	43.6 [12.78]	42.9 [12.57]	41.1 [12.05]	
	Power	4.1	4.1	4.0	4.1	4.1	4.0	4.1	4.0	4.0	
115 [46.1]	Total BTUH [kW]	50.0 [14.65]	49.1 [14.39]	47.8 [14.01]	45.6 [13.36]	44.8 [13.13]	43.6 [12.78]	42.3 [12.40]	41.6 [12.19]	40.4 [11.84]	
	Sens BTUH [kW]	36.0 [10.55]	34.4 [10.08]	32.0 [9.38]	41.2 [12.07]	39.4 [11.55]	36.6 [10.73]	42.3 [12.40]	41.6 [12.19]	40.4 [11.84]	
	Power	4.3	4.2	4.2	4.3	4.3	4.2	4.2	4.2	4.1	

## GROSS SYSTEMS PERFORMANCE DATA—RSNA-B060

		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]	2040 [963]	1850 [873]	1570 [741]	2040 [963]	1850 [873]	1570 [741]	2040 [963]	1850 [873]
		DR ①	.21	.20	.18	.21	.20	.18	.21	.20	.18
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	69.9 [20.49]	68.7 [20.13]	66.8 [19.58]	66.3 [19.43]	65.1 [19.08]	63.3 [18.55]	63.8 [18.70]	62.6 [18.35]	60.9 [17.85]
		Sens BTUH [kW]	41.5 [12.16]	39.7 [11.63]	36.9 [10.81]	48.8 [14.30]	46.7 [13.69]	43.4 [12.72]	53.0 [15.53]	50.6 [14.83]	47.1 [13.80]
		Power	3.9	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7
	80 [26.7]	Total BTUH [kW]	69.6 [20.40]	68.4 [20.05]	66.5 [19.49]	65.9 [19.31]	64.8 [18.99]	63.0 [18.46]	63.4 [18.58]	62.3 [18.26]	60.6 [17.76]
		Sens BTUH [kW]	40.4 [11.84]	38.6 [11.31]	35.9 [10.52]	47.8 [14.01]	45.6 [13.36]	42.4 [12.43]	51.9 [15.21]	49.6 [14.54]	46.1 [13.51]
		Power	4.1	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9
	85 [29.4]	Total BTUH [kW]	68.5 [20.08]	67.3 [19.72]	65.4 [19.17]	64.8 [18.99]	63.7 [18.67]	61.9 [18.14]	62.3 [18.26]	61.2 [17.94]	59.5 [17.44]
		Sens BTUH [kW]	39.4 [11.55]	37.6 [11.02]	35.0 [10.26]	46.7 [13.69]	44.6 [13.07]	41.5 [12.16]	50.9 [14.92]	48.6 [14.24]	45.2 [13.25]
		Power	4.3	4.3	4.2	4.2	4.2	4.1	4.2	4.1	4.1
	90 [32.2]	Total BTUH [kW]	66.8 [19.58]	65.6 [19.23]	63.9 [18.73]	63.2 [18.52]	62.0 [18.17]	60.4 [17.70]	60.7 [17.79]	59.6 [17.47]	58.0 [17.00]
Sens BTUH [kW]		38.3 [11.22]	36.6 [10.73]	34.0 [9.96]	45.7 [13.39]	43.6 [12.78]	40.6 [11.90]	49.8 [14.59]	47.6 [13.95]	44.3 [12.98]	
Power		4.5	4.5	4.4	4.4	4.4	4.3	4.4	4.3	4.3	
95 [35]	Total BTUH [kW]	64.8 [18.99]	63.7 [18.67]	61.9 [18.14]	61.2 [17.94]	60.1 [17.61]	58.4 [17.12]	58.7 [17.20]	57.6 [16.88]	56.0 [16.41]	
	Sens BTUH [kW]	37.3 [10.93]	35.6 [10.43]	33.1 [9.70]	44.6 [13.07]	42.6 [12.48]	39.7 [11.63]	48.8 [14.30]	46.6 [13.66]	43.4 [12.72]	
	Power	4.7	4.7	4.6	4.6	4.6	4.5	4.6	4.5	4.5	
100 [37.8]	Total BTUH [kW]	62.7 [18.38]	61.6 [18.05]	59.9 [17.55]	59.0 [17.29]	58.0 [17.00]	56.4 [16.53]	56.5 [16.56]	55.5 [16.27]	54.0 [15.83]	
	Sens BTUH [kW]	36.3 [10.64]	34.7 [10.17]	32.3 [9.47]	43.6 [12.78]	41.7 [12.22]	38.8 [11.37]	47.8 [14.01]	45.7 [13.39]	42.5 [12.46]	
	Power	4.9	4.9	4.8	4.8	4.8	4.7	4.8	4.8	4.7	
105 [40.6]	Total BTUH [kW]	60.6 [17.76]	59.6 [17.47]	57.9 [16.97]	57.0 [16.71]	55.9 [16.38]	54.4 [15.94]	54.5 [15.97]	53.5 [15.68]	52.0 [15.24]	
	Sens BTUH [kW]	35.3 [10.35]	33.8 [9.91]	31.4 [9.20]	42.7 [12.51]	40.8 [11.96]	37.9 [11.11]	46.9 [13.75]	44.8 [13.13]	41.6 [12.19]	
	Power	5.1	5.1	5.0	5.1	5.0	4.9	5.0	5.0	4.9	
110 [43.3]	Total BTUH [kW]	58.8 [17.23]	57.8 [16.94]	56.2 [16.47]	55.2 [16.18]	54.2 [15.88]	52.7 [15.44]	52.7 [15.44]	51.7 [15.15]	50.3 [14.74]	
	Sens BTUH [kW]	34.4 [10.08]	32.9 [9.64]	30.6 [8.97]	41.8 [12.25]	39.9 [11.69]	37.1 [10.87]	45.9 [13.45]	43.9 [12.87]	40.8 [11.96]	
	Power	5.3	5.3	5.2	5.3	5.2	5.2	5.2	5.2	5.1	
115 [46.1]	Total BTUH [kW]	57.5 [16.85]	56.5 [16.56]	55.0 [16.12]	53.9 [15.80]	52.9 [15.50]	51.4 [15.06]	51.3 [15.03]	50.4 [14.77]	49.0 [14.36]	
	Sens BTUH [kW]	33.5 [9.82]	32.0 [9.38]	29.8 [8.73]	40.9 [11.99]	39.1 [11.46]	36.3 [10.64]	45.0 [13.19]	43.0 [12.60]	40.0 [11.72]	
	Power	5.6	5.5	5.4	5.5	5.4	5.4	5.4	5.4	5.3	

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

[ ] Designates Metric Conversions



## INDOOR AIRFLOW PERFORMANCE—208 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory		Blower Size/ Motor HP [W] & # of Speeds	Motor Speed	CFM [L/s] Air Delivery/RPM/Watts—208 Volts Side Discharge—Wet Coil							
	Cool	Heat			External Static Pressure—Inches W.C. [kPa]							
					0.1 [1.02]	0.2 [0.05]	0.3 [0.07]	0.4 [1.10]	0.5 [1.12]	0.6 [1.15]	0.7 [1.17]	
2.0 [7.03]	High	Low	9x7 1/4 HP 2 Speed Motor	Low	CFM	675 [319]	657 [310]	634 [299]	602 [284]	560 [264]	505 [238]	435 [205]
		High			RPM	695	785	870	905	940	980	1020
	High	Low		Watts	221	214	203	191	171	193	149	
2.5 [8.79]	High	High	10x9 1/2 HP 3 Speed Motor	High	CFM	898 [424]	861 [406]	822 [388]	777 [367]	721 [340]	651 [307]	562 [265]
		Low			RPM	940	965	995	1020	1045	1070	1090
	Low	Low		Watts	292	278	266	253	239	221	199	
3.0 [10.55]	Med.	Med.	10x9 1/2 HP 3 Speed Motor	Med.	CFM	1076 [508]	1059 [500]	1032 [487]	996 [470]	950 [448]	896 [423]	832 [393]
		High			RPM	730	775	820	865	905	940	975
	High	Low		Watts	356	349	341	331	320	305	287	
3.5 [12.31]	High	High	10x9 1/2 HP 3 Speed Motor	High	CFM	1222 [577]	1197 [565]	1179 [556]	1162 [548]	1137 [537]	1097 [518]	1033 [488]
		Med.			RPM	765	810	855	890	920	960	995
	Low	Med.		Watts	423	415	407	397	386	370	351	
4.0 [14.07]	High	High	10x9 3/4 HP 3 Speed Motor	High	CFM	1514 [715]	1461 [670]	1415 [668]	1370 [647]	1322 [624]	1266 [597]	1197 [565]
		Med.			RPM	895	930	965	985	1005	1025	1045
	Low	Low		Watts	538	514	493	473	454	434	412	
5.0 [17.59]	High	High	10x9 1 HP ECM (Constant CFM)	High	CFM	1204 [568]	1202 [567]	1191 [562]	1171 [553]	1143 [539]	1107 [522]	1065 [503]
		Med.			RPM	734	810	886	923	959	988	1016
	Low	Med.		Watts	476	468	450	427	403	380	363	
5.0 [17.59]	High	High	10x9 1 HP ECM (Constant CFM)	High	CFM	1674 [790]	1620 [765]	1566 [739]	1511 [713]	1451 [685]	1384 [653]	1305 [616]
		Med.			RPM	997	1019	1040	1058	1076	1088	1100
	Low	Low		Watts	625	596	567	539	512	484	455	
5.0 [17.59]	High	High	10x9 1 HP ECM (Constant CFM)	High	CFM	<b>▲ 1843 [870]</b>	<b>▲ 1763 [832]</b>	1693 [799]	1627 [768]	1560 [736]	1485 [701]	1398 [660]
		Med.			RPM	<b>1085</b>	<b>1094</b>	1102	1110	1118	1126	1134
	Low	Low		Watts	<b>699</b>	<b>663</b>	632	604	576	548	517	
5.0 [17.59]	High	High	10x9 1 HP ECM (Constant CFM)	High	CFM	1500 [707]	1500 [707]	1500 [707]	1500 [707]	1500 [707]	1500 [707]	1500 [707]
		Med.			RPM	896	956	1008	1062	1093	1145	1194
	Low	Low		Watts	317	358	393	435	457	493	531	
5.0 [17.59]	High	High	10x9 1 HP ECM (Constant CFM)	High	CFM	1850 [873]	1850 [873]	1850 [873]	1850 [873]	1850 [873]	1850 [873]	1850 [873]
		Med.			RPM	1091	1141	1185	1233	1267	1308	1336
	Low	Low		Watts	579	630	673	724	759	800	826	

NOTE: On 4 ton models, switch to medium speed for cooling if external static pressure is less than 0.4" W.C. at 230 volts or less than 0.3" W.C. at 208 volts.

▲ WARNING: Do not operate unit in area of airflow table shown in bold (CFM greater than 1700 for 4 ton models) due to possibility of water blow-off.

▲ WARNING: Observe airflow operating limits if operating in area of airflow table shown in bold.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)			
CFM [L/s]	600 [283]	800 [378]	1000 [472]
Pressure Drop—Includes W.C. [kPa]	.00	.02 [1.005]	.05 [1.012]
MINIMUM RECOMMENDED FILTER SIZES			
Nominal Cooling Capacity Tons [kW]	20 x 20 x 1 [508 x 508 x 25]	2.0 [7.03]	2.5 [8.79] – 4.0 [14.07]
Minimum Filter Size—Inches [mm]	24 x 24 x 1 [610 x 610 x 25]	24 x 30 x 1 [610 x 762 x 1]	



## INDOOR AIRFLOW PERFORMANCE—230 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory		Blower Size/Motor HP [W] & # of Speeds	Motor Speed	CFM [L/s] Air Delivery/RPM/Watts—230 Volts Side Discharge—Wet Coil							
	Cool	Heat			External Static Pressure—Inches W.C. [kPa]							
					0.1 [1.02]	0.2 [0.05]	0.3 [0.07]	0.4 [1.10]	0.5 [1.12]	0.6 [1.15]	0.7 [1.17]	
2.0 [7.03]	High	Low	9x7 1/4 HP 2 Speed Motor	Low	CFM	771 [364]	751 [354]	725 [342]	691 [326]	645 [304]	584 [276]	546 [258]
		Watts			825	870	910	950	985	1010	1030	
	High	High			CFM	946 [446]	922 [435]	882 [415]	830 [392]	769 [363]	701 [331]	630 [298]
2.5 [8.79]	Low	Low	10x9 1/2 HP 3 Speed Motor	Low	CFM	1206 [569]	1182 [558]	1157 [546]	1128 [532]	1091 [515]	1044 [493]	983 [464]
		Watts			760	815	870	910	950	975	1000	
	Med.	High			CFM	1411 [666]	1368 [646]	1327 [626]	1285 [606]	1238 [584]	1183 [558]	1116 [527]
3.0 [10.55]	High	Low	10x9 3/4 HP 3 Speed Motor	Med.	CFM	1641 [774]	1577 [744]	1515 [715]	1455 [687]	1393 [657]	1329 [627]	1262 [596]
		Watts			859	905	951	981	1011	1034	1057	
	High	High			CFM	1412 [666]	1395 [658]	1371 [647]	1339 [632]	1296 [612]	1242 [586]	1176 [555]
4.0 [14.07]	High	Low	10x9 1 HP ECM (Constant CFM)	High	CFM	1793 [846]	1731 [817]	1665 [786]	1594 [752]	1519 [717]	1440 [680]	1356 [640]
		Watts			1053	1067	1080	1091	1101	1110	1119	
	High	High			CFM	1889 [892]	1826 [852]	1753 [827]	1672 [789]	1586 [749]	1499 [707]	1413 [667]
5.0 [17.59]	High	Low	10x9 1 HP ECM (Constant CFM)	Low	CFM	1110	1117	1124	1129	1133	1139	1144
		Watts			736	715	683	646	608	574	551	
	High	High			CFM	1500 [707]	1500 [707]	1500 [707]	1500 [707]	1500 [707]	1500 [707]	1500 [707]
		Watts	895	952	1010	1064	1102	1144	1196			
		CFM	1850 [873]	1850 [873]	1850 [873]	1850 [873]	1850 [873]	1850 [873]	1850 [873]			
		Watts	318	358	400	442	469	500	541			
		CFM	1096	1145	1191	1237	1278	1317	1353			
		Watts	593	643	692	743	791	836	875			

NOTE: On 4 ton models, switch to medium speed for cooling if external static pressure is less than 0.4" W.C. at 230 volts or less than 0.3" W.C. at 208 volts.  
 ▲ **WARNING: Do not operate unit in area of airflow table shown in bold (CFM greater than 1700 for 4 ton models) due to possibility of water blow-off.**  
 ▲ **WARNING: Observe airflow operating limits if operating in area of airflow table shown in bold.**



## ELECTRICAL DATA – RSNA-B SERIES

		-B024JK	-B030JK	-B036CK	-B036JK	-B042CK	-B042JK	-B048CK	-B048JK	-B060CK	-B060JK
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	16/16	22/22	16/16	22/22	18/18	26/26	22/22	32/32	33/33	43/43
	Minimum Overcurrent Protection Device Size	20/20	25/25	20/20	30/30	20/20	30/30	25/25	40/40	40/40	50/50
	Maximum Overcurrent Protection Device Size	25/25	35/35	25/25	35/35	25/25	40/40	30/30	50/50	50/50	60/60
Compressor Motor	No.	1	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	208/230	208/230
	Phase	1	1	3	1	3	1	3	1	3	1
	HP	2 1/6	2 2/3	3 1/3	3 1/3	3 1/2	3 1/2	4	4	5	5
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	10.4/10.4	14.1/14.1	9.6/9.6	14.4/14.4	10.3/10.3	16.5/16.5	12.2/12.2	20.2/20.2	17.3/17.3	25/25
	Amps (LRA)	54/54	68/68	88/88	77/77	77/77	95/95	80.8/80.8	137/137	123/123	148/148
Condenser Motor	No.	1	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	208/230	208/230
	Phase	1	1	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	1/3	1/3
	Amps (FLA)	1.3	1.3	1.3	1.3	2	2	2	2	2	2
	Amps (LRA)	2.3	2.3	2.3	2.3	3.9	3.9	3.9	3.9	3.9	3.9
Evaporator Fan	No.	1	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	208/230	208/230
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	1/4	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1	1
	Amps (FLA)	1.3	2.4	2.4	2.4	2.4	2.4	4.4	4.4	9.1	9.1
	Amps (LRA)	2.3	5.1	5.1	5.1	5.1	5.1	9.5	9.5	0	0

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

### Copper Wire Size—AWG (1% Voltage Drop)

SUPPLY WIRE LENGTH-FEET	CIRCUIT AMPACITY																						
	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125
300	4	3	2	2	1	1/0	1/0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	250	250	250	250	300	300	300
250	4	4	3	3	2	1	1	1/0	1/0	2/0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	4/0	250	250	250
200	6	4	4	4	3	2	2	1	1	1/0	1/0	1/0	2/0	2/0	2/0	3/0	3/0	3/0	3/0	3/0	4/0	4/0	4/0
150	8	6	6	4	4	4	3	3	2	2	1	1	1/0	1/0	1/0	1/0	2/0	2/0	2/0	2/0	2/0	3/0	3/0
100	10	8	8	6	6	6	4	4	4	3	3	2	2	2	1	1	1	1	1	1/0	1/0	1/0	1/0
50	14	12	10	10	8	8	6	6	6	4	4	4	3	3	3	2	2	2	2	2	1	1	1

- Notes: 1. Wire size based on 60°C. type copper conductors below 100 ampacity. 2. Wire size based on 75°C. type copper conductors for 100 ampacity and above.

[ ] Designates Metric Conversions





# ELECTRIC HEATER KITS—RSNA-B SERIES

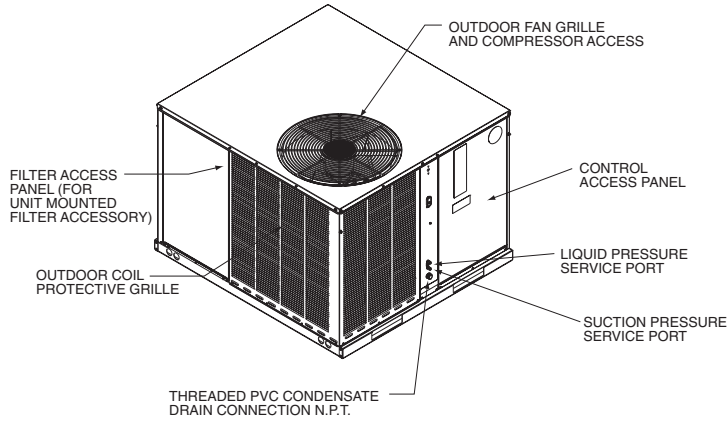
## 208-240 VOLT, SINGLE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit				
Unit Model No. RSNA-B	Heater Kit					Unit					Heater Kit		Air Conditioner	
	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. Circuit Ampacity 208/240 V	Max. Fuse Size 208/240V	Min. Ckt. Ampacity 208/240V	Over Current Protective Device Size	
								Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
B024JK	No Heat A05J A10J	1 2	1 1	3.6/4.8 7.2/9.6	12.28/16.38 24.57/32.76	17.3/20.0 34.6/40.0	16/16 24/27 45/52	20/25 25/25 45/45	20/25 30/30 60/60	16/16	25/25 45/50	22/25 44/50	20/25	20/25
B030JK	No Heat A05J A10J	1 2	1 1	3.6/4.8 7.2/9.6	12.28/16.38 24.57/32.76	17.3/20.0 34.6/40.0	22/22 25/28 47/53	25/35 25/35 50/50	25/35 25/35 60/60	22/22	25/25 45/50	22/25 44/50	25/35	25/35
B036JK	No Heat A10J A15J	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	34.6/40.0 51.9/60.0	22/22 47/53 68/78	30/35 50/50 70/70	30/35 60/60 80/80	22/22	45/50 70/80	44/50 65/75	30/35	30/35
B042JK	No Heat A10J A15J	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	34.6/40.0 51.9/60.0	26/26 46/53 68/78	30/40 50/50 70/70	30/40 60/60 80/80	26/26	45/50 70/80	44/50 65/75	30/40	30/40
B048JK	No Heat B10J B15J	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	34.6/40.0 51.9/60.0	32/32 49/56 70/81	40/50 50/50 80/80	40/50 60/60 90/90	32/32	45/50 70/80	44/50 65/75	40/50	40/50
B060JK	No Heat B10J B15J	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	34.6/40.0 51.9/60.0	43/43 55/61 76/86	50/60 60/60 80/80	50/60 70/70 90/90	43/43	45/50 70/80	44/50 65/75	50/60	50/60

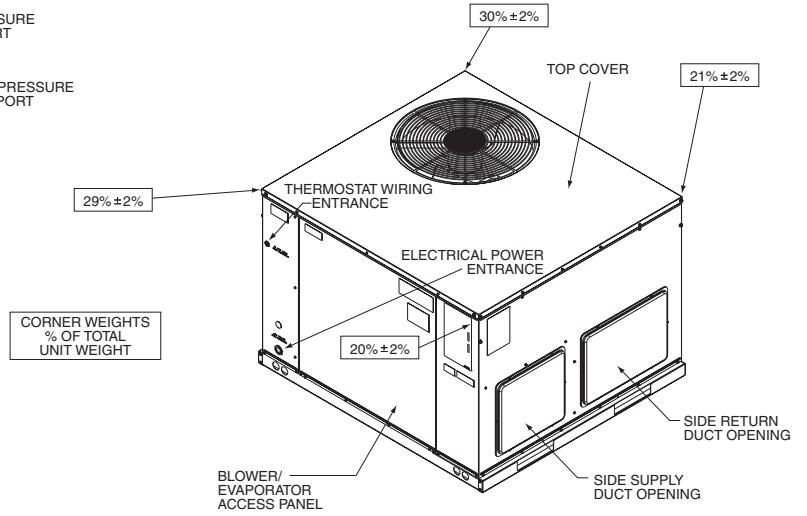
## 208-240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit				
Unit Model No. RSNA-B	Heater Kit					Unit					Heater Kit		Air Conditioner	
	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. Circuit Ampacity 208/240 V	Max. Fuse Size 208/240V	Min. Ckt. Ampacity 208/240V	Over Current Protective Device Size	
								Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
B036CK	No Heat A10C A15C	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	20.0/23.1 30.1/34.7	16/16 28/32 41/47	20/25 30/30 45/45	20/25 35/35 50/50	16/16	25/30 40/45	25/29 38/44	20/25	20/25
B042CK	No Heat A10C A15C	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	20.0/23.1 30.1/34.7	18/18 28/32 41/46	20/25 30/30 45/45	20/25 35/35 50/50	18/18	25/30 40/45	25/29 38/44	20/25	20/25
B048CK	No Heat A10C A15C	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	20.0/23.1 30.1/34.7	22/22 31/35 44/49	25/30 35/35 45/45	25/30 35/35 50/50	22/22	25/30 40/45	25/29 38/44	25/30	25/30
B060CK	No Heat A10C A15C	2 3	1 1	7.2/9.6 10.8/14.4	24.57/32.76 36.85/49.13	20.0/23.1 30.1/34.7	33/33 37/40 49/55	40/50 40/50 50/50	40/50 40/50 60/60	33/33	25/30 40/45	25/29 38/44	40/50	40/50

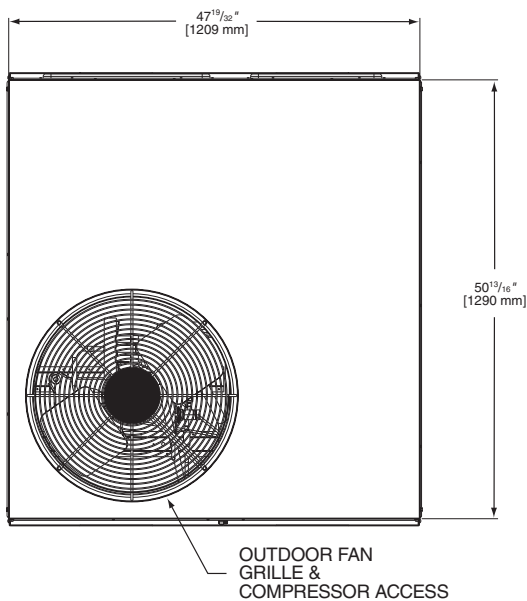
## UNIT DIMENSIONS PACKAGE AIR CONDITIONERS



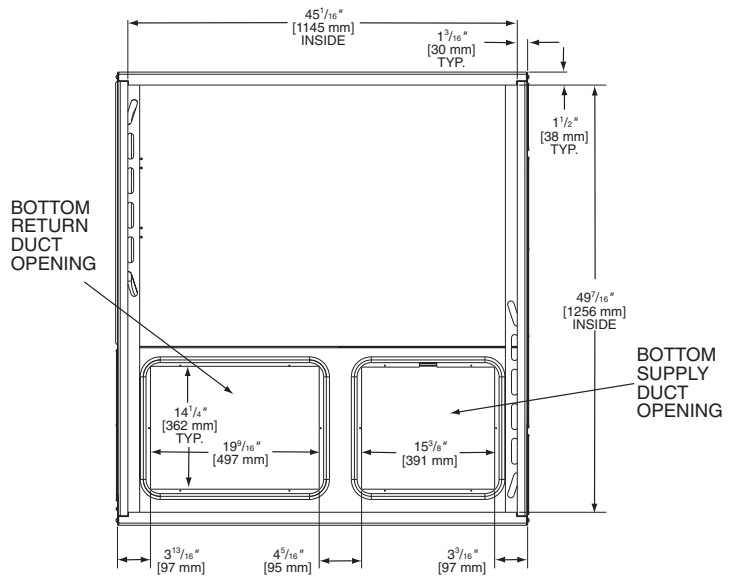
IMPORTANT: UNIT MUST BE LEVEL TO PREVENT WATER MIGRATION



### TOP VIEW

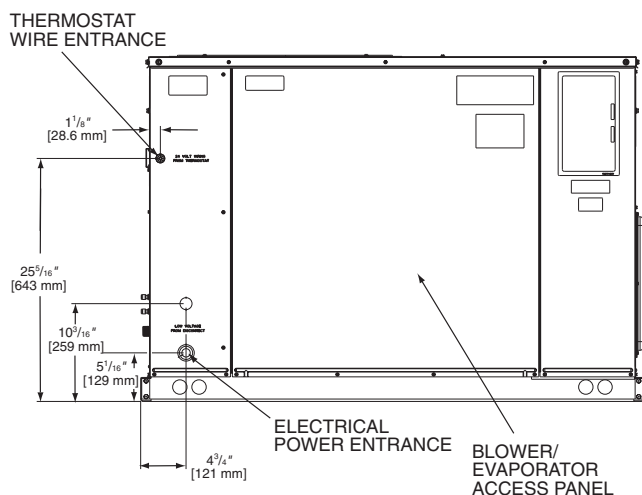


### BOTTOM VIEW

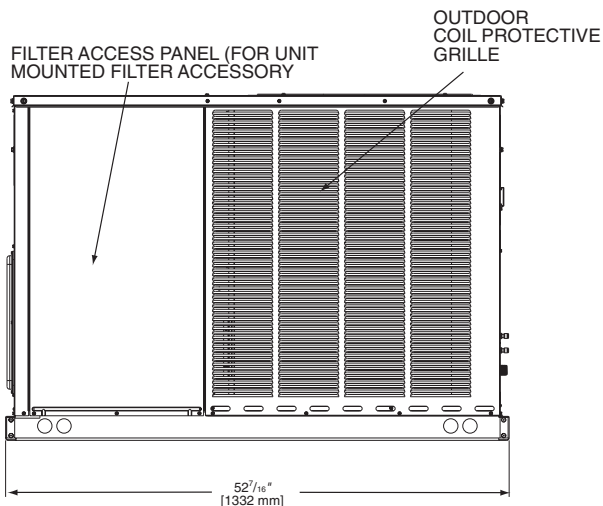


[ ] Designates Metric Conversions

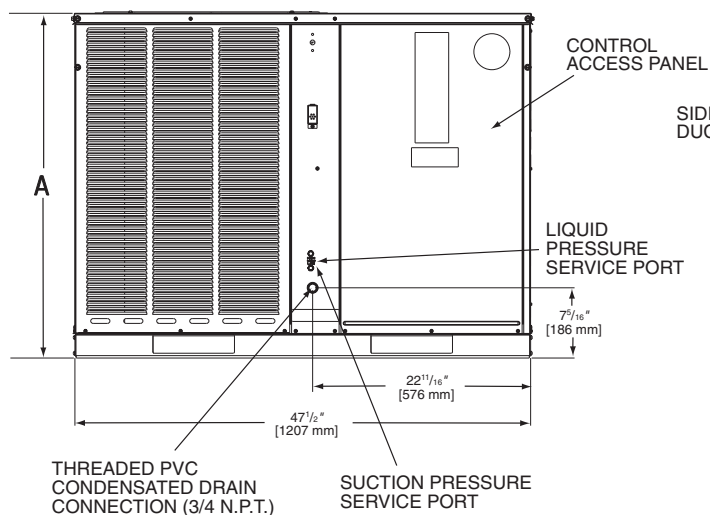
## SIDE VIEW



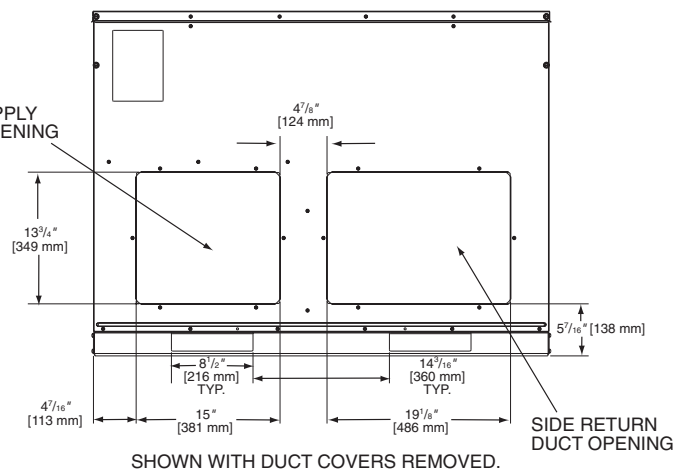
## SIDE VIEW



## FRONT VIEW



## REAR VIEW



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

Model #	Height "A"
B024, B030, B036	$35\frac{15}{16}$
B042, B048, B060	41

**IMPORTANT:**  
 Unit must be level to prevent water migration.



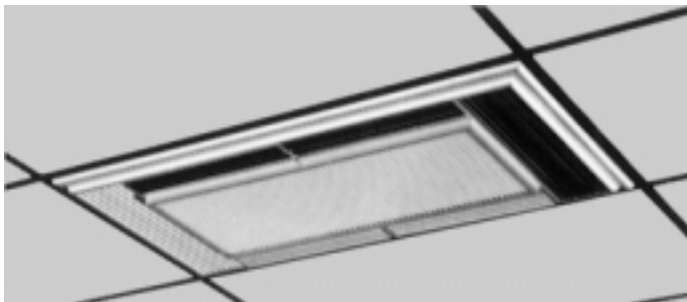
## ACCESSORY EQUIPMENT

Accessory Description	Model Application	Accessory Model No.
Roofcurbs	RSNA-B	RXSG-AAA08 (8" [203 mm] Height) RXSG-AAA14 (14" [356 mm] Height) RXSG-AAA24 (24" [610 mm] Height)
Supply & Return Diffusers	RSNA-B	RXRN-BD15
Economizers (Downflow ONLY)	RSNA-B	RXRE-CAA30 (3 Position) RXRD-CAM10 (Fully Modulating)
Fresh Air Damper	RSNA-B	RXRF-FAB1 (Motorized-35%) RXRF-FAA1 (Fixed-35%)
Rectangular to Round Transition (Downflow)	RSNA-B	RXMC-CA02 (16" [406 mm] Ducts) RXMC-CA03 (18" [457 mm] Ducts)
Filter Kit	RSNA-B	RXRY-B01
Low Ambient Control	RSNA-B	RXRZ-A18
High Pressure Control	RSNA-B	RXAB-A02
Low Pressure Control	RSNA-B	RXAC-A02
Sideflow Rectangular to Round Transition	RSNA-B	RXMC-BA01
LP Conversion Kits	RSNA-B	RXGJ-EP84W (White-Rodgers Gas Valve) RXGJ-EP85H (Honeywell Gas Valve)
Canadian High Altitude Kit (for Natural Gas only*)	RSNA-B	RXRX-AH01

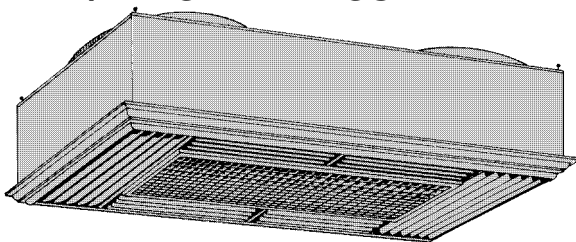
\*If a particular unit is to be converted to operate on LP (propane) for elevations above 2000 ft. [609.6 m] in Canada, the existing Natural Gas to LP Conversion Kits for the subject models already contain the necessary orifices and instructions to de-rate the input for 2000-4500 ft. [609.6-1371.6 m] Canadian applications.

[ ] Designates Metric Conversions

## COMMON SUPPLY/RETURN CONCENTRIC AIR DIFFUSER



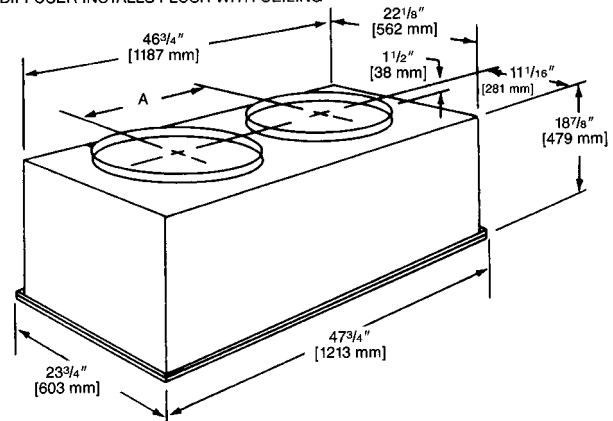
## SUPPLY/RETURN DIFFUSER



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]

DIFFUSER INSTALLS FLUSH WITH CEILING



**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]



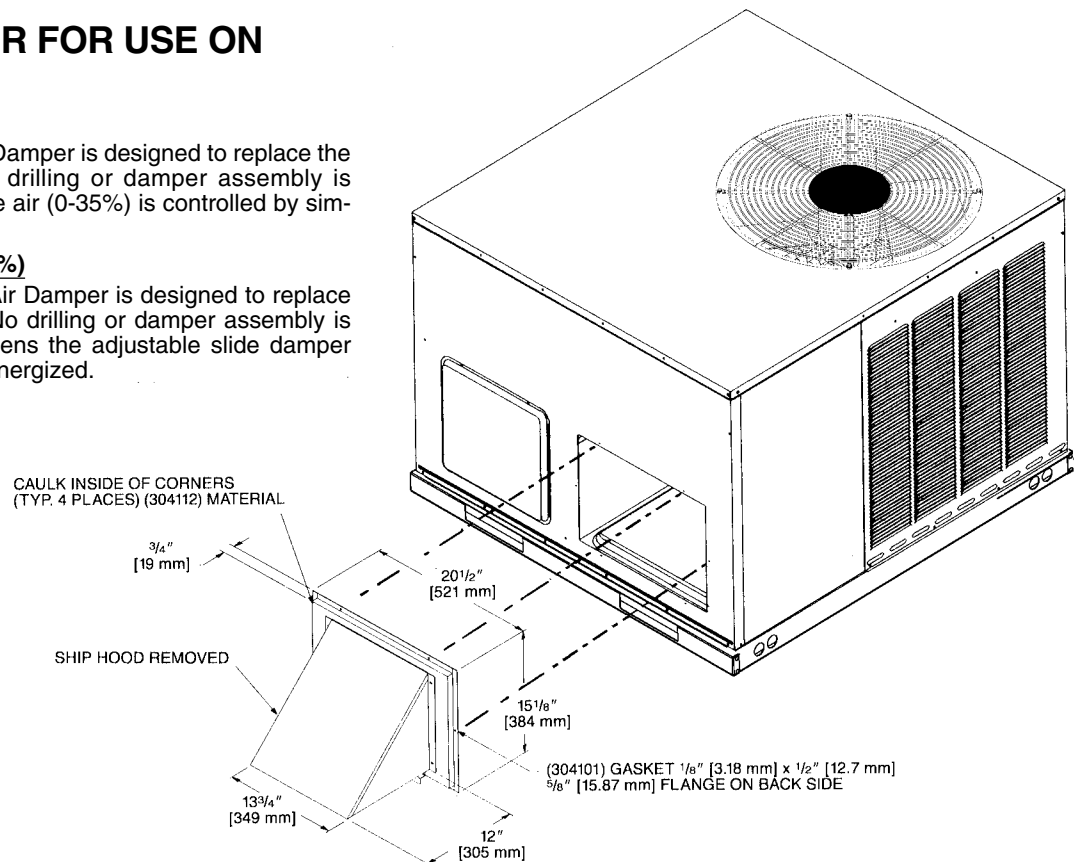
## FRESH AIR DAMPER FOR USE ON RSNA-B SERIES

### **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 RSNA-B Series**

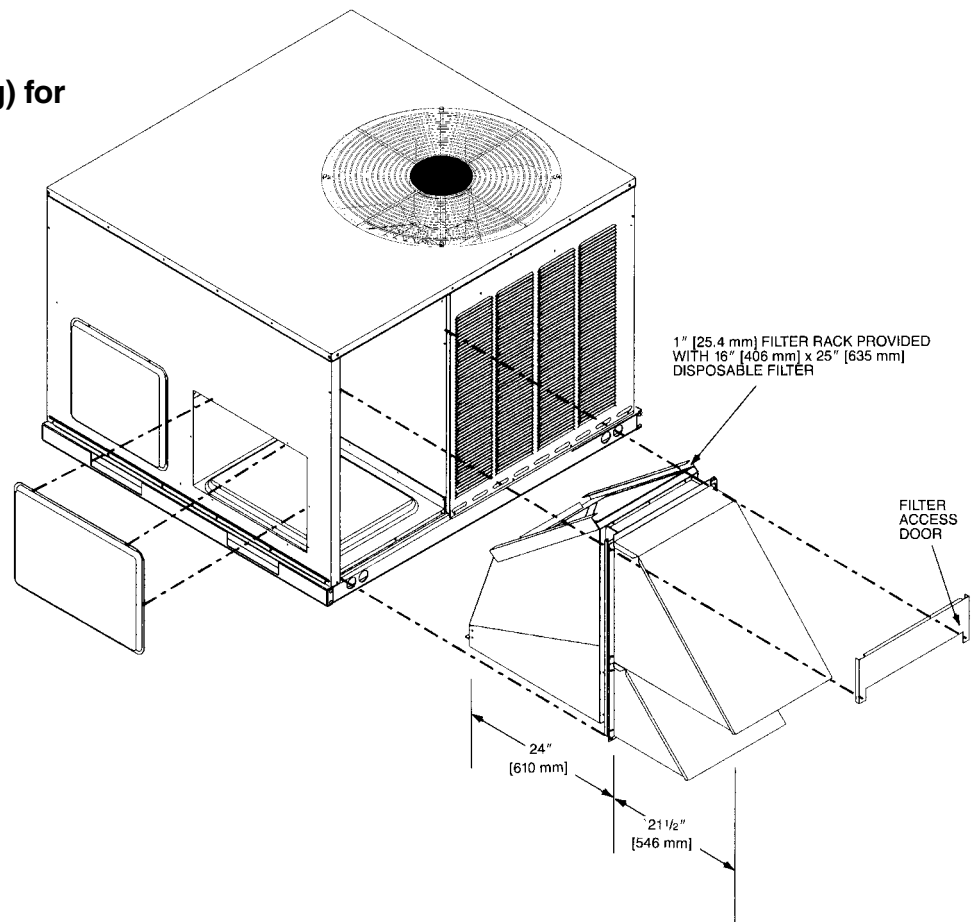
#### **RXRE-CAA30 (3 Position)**

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.

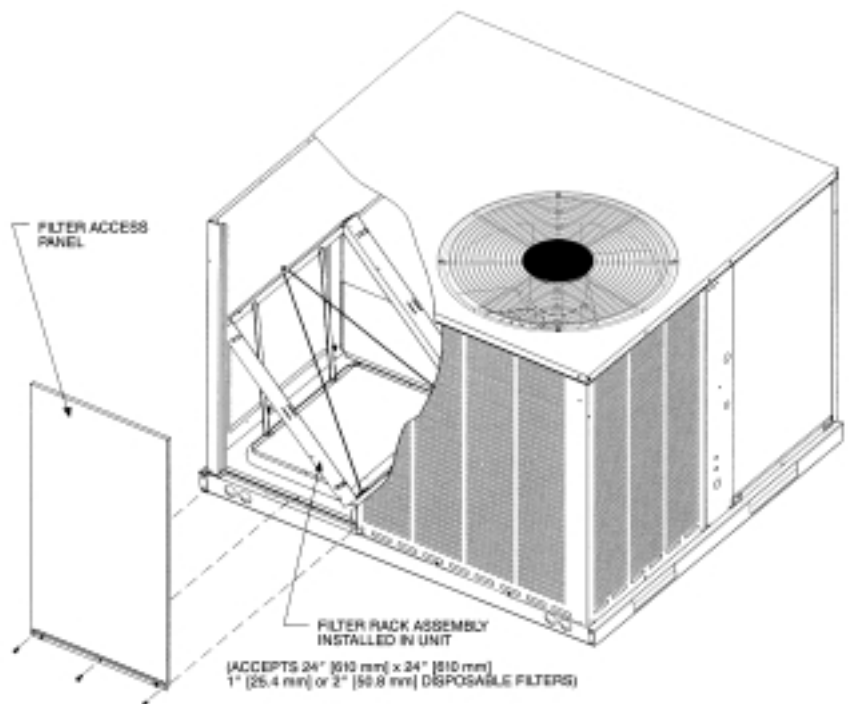
**Note:** See economizer installation instructions for correct filter access door.



[ ] Designates Metric Conversions

## FILTER KIT INSTALLATION RXRY-B01

For use in either vertical or horizontal discharge.



Model No.	CFM [L/s]		
	Minimum Airflow	Nominal Airflow	Maximum Airflow
RSNA-B	510 [241]	600 [283]	660 [311]
RSNA-B	680 [321]	800 [378]	880 [415]
RSNA-B	850 [401]	1000 [472]	1100 [519]
RSNA-B	1020 [481]	1200 [566]	1320 [623]
RSNA-B	1190 [562]	1400 [661]	1540 [727]
RSNA-B	1275 [602]	1500 [708]	1650 [779]

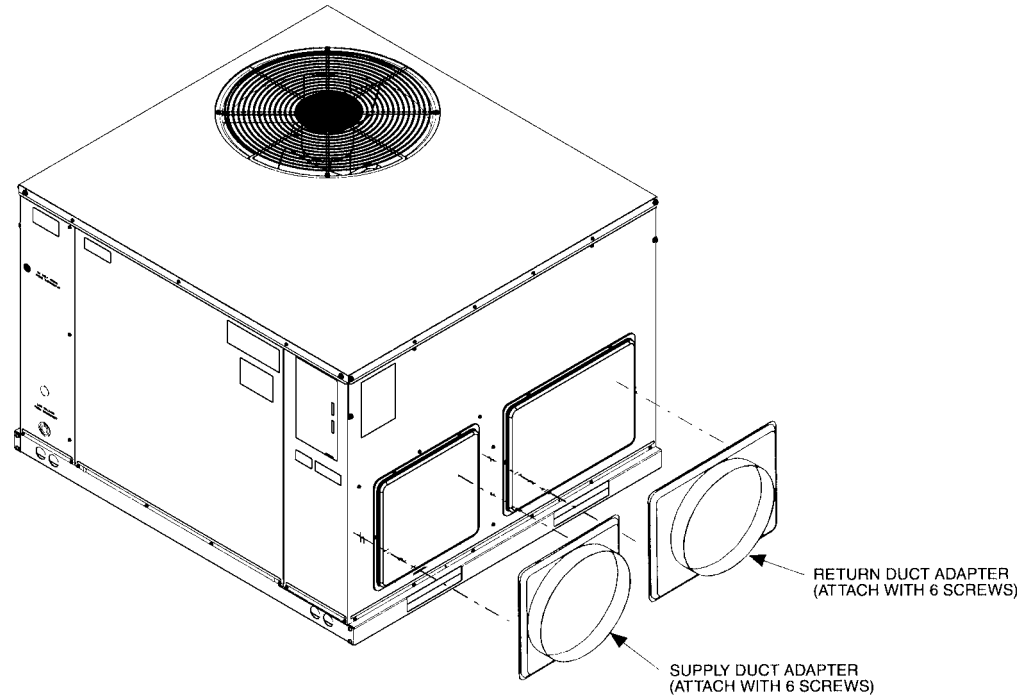
CFM [L/s]	Airflow Pressure Drop, Inches W.C. [kPa]	
	1" Filter	2" Filter
500 [236]	.02 [.0050]	.03 [.0075]
600 [283]	.02 [.0050]	.03 [.0075]
700 [330]	.03 [.0075]	.04 [.0101]
800 [378]	.04 [.0101]	.05 [.0124]
900 [425]	.05 [.0124]	.06 [.0149]
1000 [472]	.07 [.0174]	.08 [.0199]
1100 [519]	.08 [.0199]	.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.

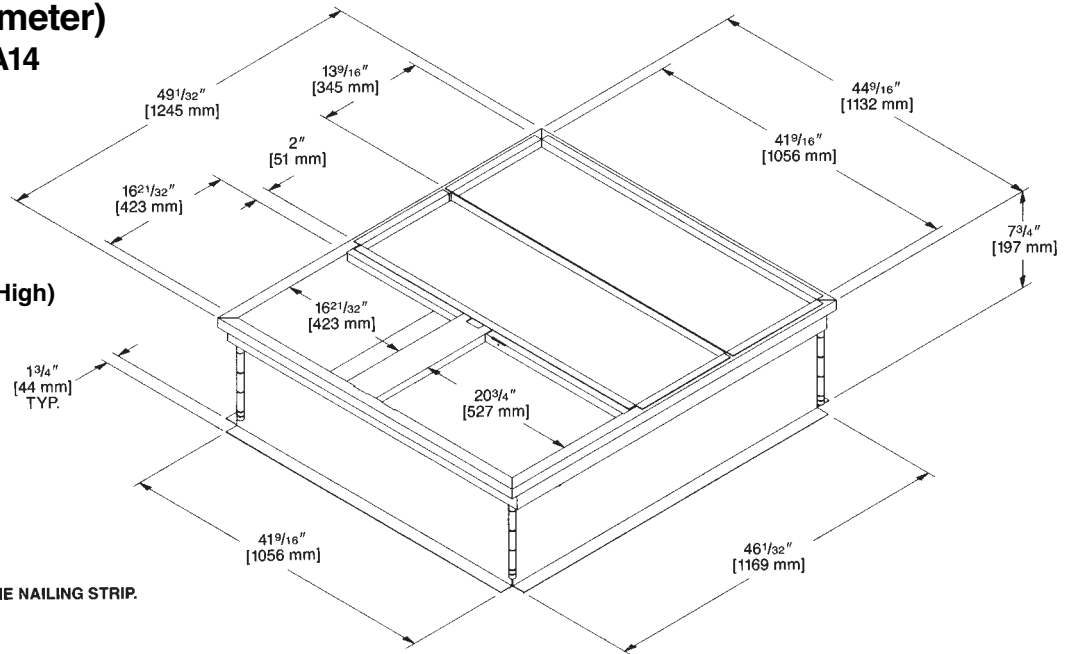


## ROOFCURB (Full Perimeter) RXSG-AAA08, RXSG-AAA14 and RXSG-AAA24 for RSNA-B Series

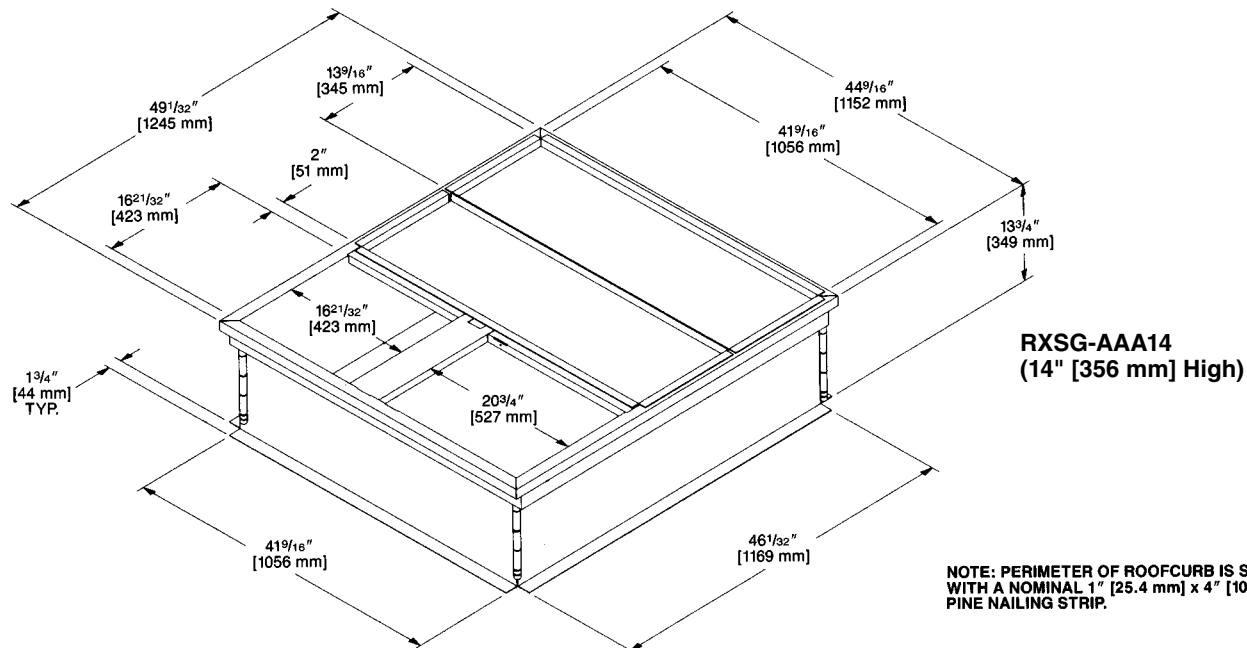
Hinged corners make for fast, easy set-up.

**RXSG-AAA08**  
(8" [203 mm] High)

NOT for use with RQKA/RQLA/RQMA Package Heat Pumps.



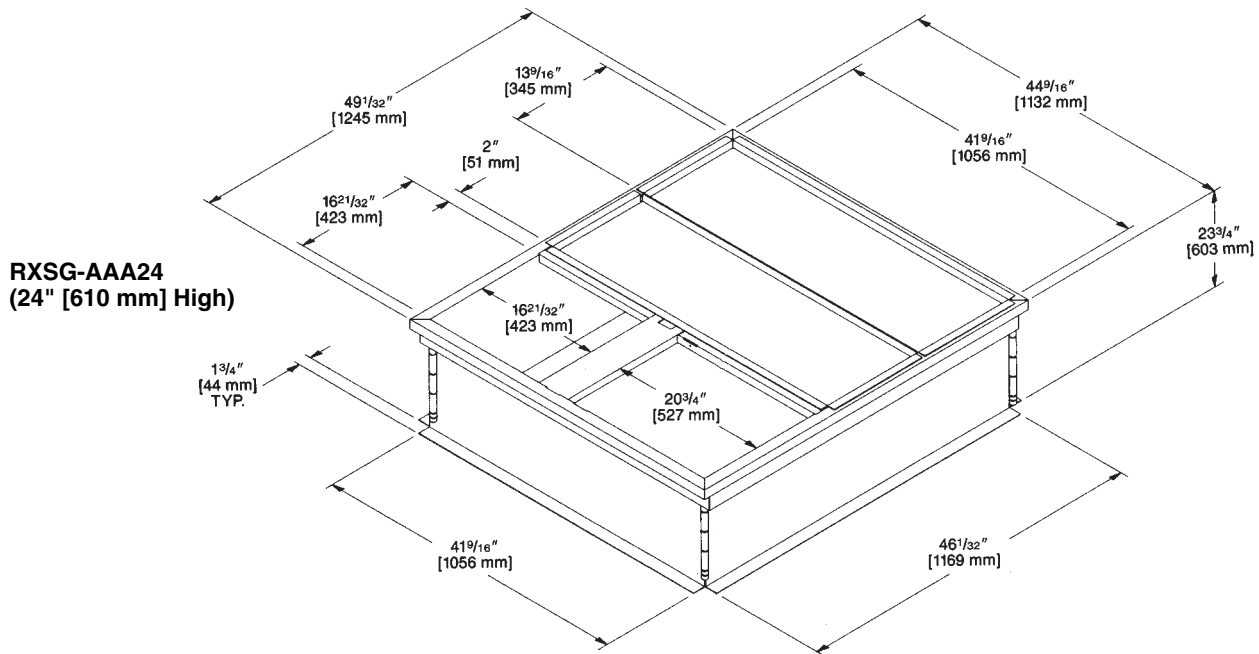
NOTE: PERIMETER OF ROOFCURB IS SUPPLIED WITH A NOMINAL 1" [25.4 mm] x 4" [102 mm] PINE NAILING STRIP.



**RXSG-AAA14**  
(14" [356 mm] High)

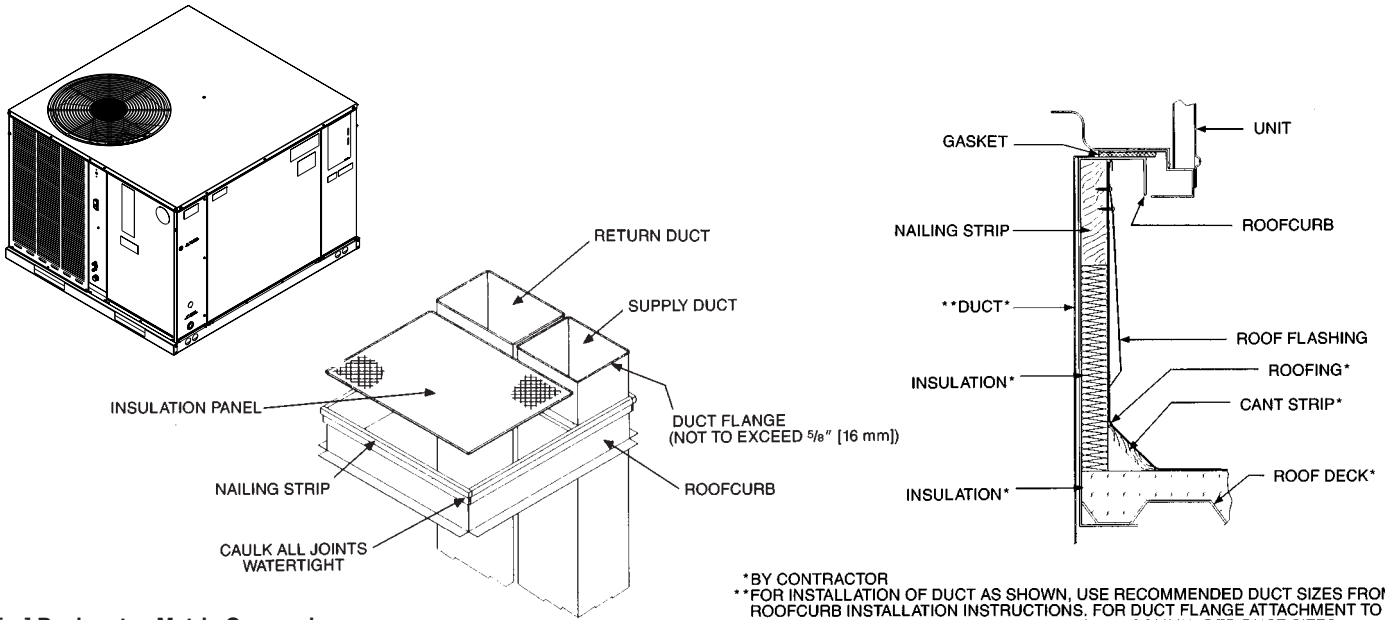
NOTE: PERIMETER OF ROOFCURB IS SUPPLIED WITH A NOMINAL 1" [25.4 mm] x 4" [102 mm] PINE NAILING STRIP.

[ ] Designates Metric Conversions

**ROOFCURB (Full Perimeter) (Cont.)**


[ ] Designates Metric Conversions

## PACKAGE AIR CONDITIONERS & GAS/ELECTRIC PACKAGE UNITS ROOFCURB INSTALLATION (Full Perimeter)

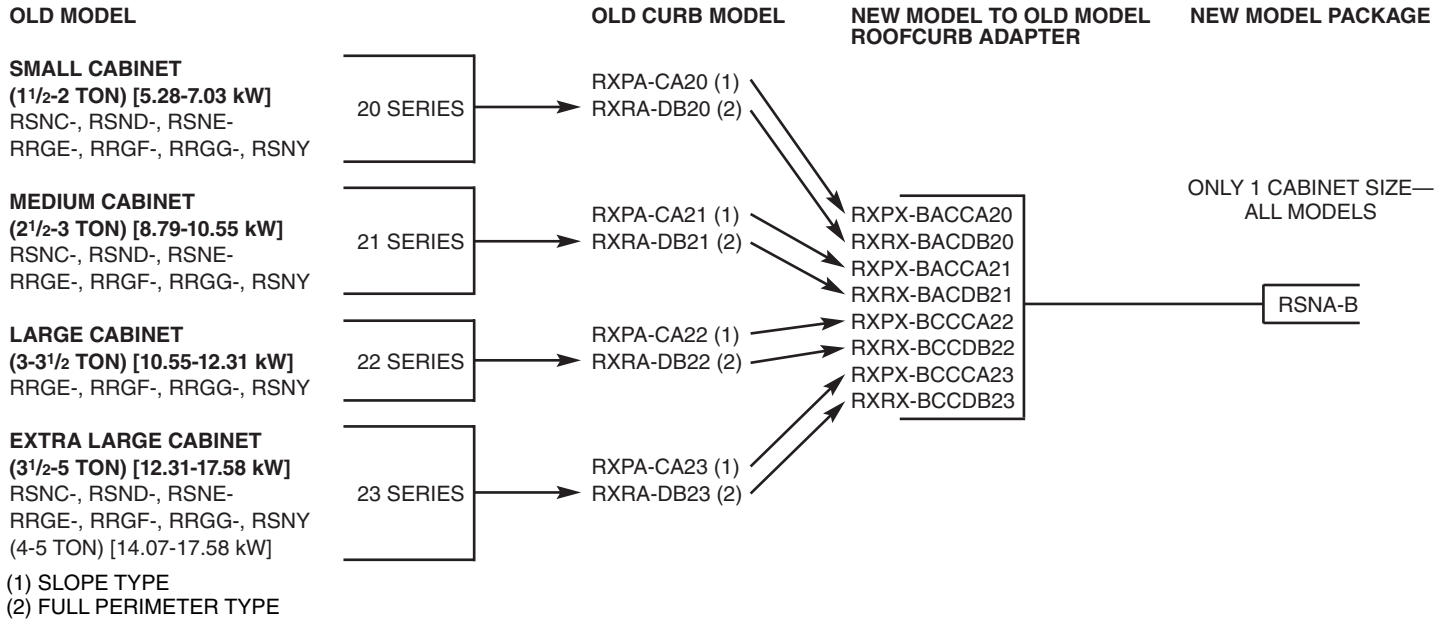


\*BY CONTRACTOR  
 \*\*FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

[ ] Designates Metric Conversions

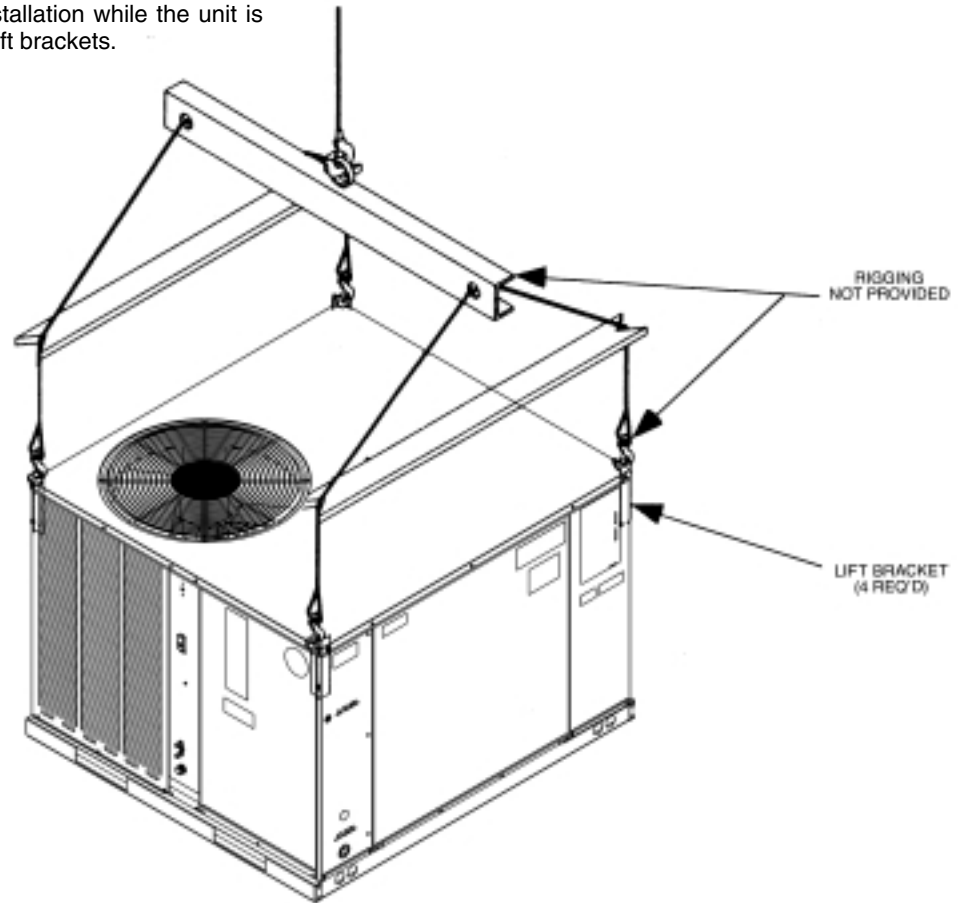
## ROOFCURB ADAPTERS

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



**LIFT KIT—MODEL NO. RXML-A01**

The lift kit is intended for temporary installation while the unit is being lifted into position. Kit includes 4 lift brackets.



## ELECTRIC HEATER KITS—RSNA-B

Unit Model Application	Electric Heater Kit Models
RSNA-B024JK	RXQJ-A05J (208-240 volt, 1-ph, 5kW)
	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
RSNA-B030JK	RXQJ-A05J (208-240 volt, 1-ph, 5kW)
	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
RSNA-B036JK	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
	RXQJ-A15J (208-240 volt, 1-ph, 15kW)
RSNA-B042JK	RXQJ-B10J (208-240 volt, 1-ph, 10kW)
	RXQJ-B15J (208-240 volt, 1-ph, 15kW)
RSNA-B048JK	RXQJ-B10J (208-240 volt, 1-ph, 10kW)
	RXQJ-B15J (208-240 volt, 1-ph, 15kW)
RSNA-B036CK	RXQJ-A10C (208-240 volt, 3-ph, 10kW)
	RXQJ-A15C (208-240 volt, 3-ph, 15kW)
	RXQJ-A16C (208-240 volt, 3-ph, 15kW-Canadian)
RSNA-B042CK	RXQJ-A10C (208-240 volt, 3-ph, 10kW)
	RXQJ-A15C (208-240 volt, 3-ph, 15kW)
RSNA-B048CK, RSNA-B060CK	RXQJ-A10C (208-240 volt, 3-ph, 10kW)
	RXQJ-A15C (208-240 volt, 3-ph, 15kW)

[ ] Designates Metric Conversions

### 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.

### WIRING DIAGRAM

**NOTE:** BLUENER MOTOR WIRING CONNECTION SHOWN IN DIAGRAM BELOW IS FOR BLUENER MOTOR. WIRING CONNECTIONS FOR OTHER MOTOR TYPES ARE THE SAME SPEED FOR COOL AND HEAT. SEE TABLE AT RIGHT FOR FACTORY PERFORMANCE CHART IN UNIT INSTALLATION INSTRUCTIONS BEFORE CHANGING FACTORY SPEED SETTING.

**NOTE:** SAME SPEED FOR BOTH COOL AND HEAT. (OPT. SEE NOTE 7)

**NOTE:** W/PC (OPTIONAL) IS REQUIRED IN BOTH HEAT & COOL MODES.

**FACTORY SET**

MODEL	BLOWER SPEED	COOL	HEAT
1.5 TON W/40K HEAT	LOW	LOW	LOW
1.5 TON W/40K HEAT	LOW	LOW	HIGH
2.0 TON W/40K HEAT	LOW	LOW	LOW
2.0 TON W/40K HEAT	LOW	LOW	HIGH
2.5 TON W/40K HEAT	LOW	LOW	LOW
2.5 TON W/40K HEAT	LOW	LOW	HIGH
3.0 TON/ALL HEATS	MED.	LOW	LOW
3.5 TON/ALL HEATS	HIGH	LOW	LOW
4.0 TON/ALL HEATS	HIGH	LOW	LOW
5.0 TON/ALL HEATS	HIGH	LOW	LOW

(SEE NOTE 8)

**WIRING SCHEMATIC**

POWER SUPPLY  
FUSED DISCONNECT  
OR  
CIRCUIT BREAKER

24W 230V 24W

1869-300 IFC

1869-300 IFC

TO THERMOSTAT

### WIRING INFORMATION

LINE VOLTAGE  
-FACTORY STANDARD  
-FACTORY OPTION  
-FIELD INSTALLED

LOW VOLTAGE  
-FACTORY STANDARD  
-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.

### COMPONENT CODE

LPC LOW PRESSURE CONTROL  
MRLC MAN. RESET LIMIT CONTROL  
NPC NEG. PRESSURE CONTROL  
OFM OUTDOOR FAN MOTOR  
OPT OPTIONAL  
PL PLUG  
R/C RUN CAPACITOR  
SE SHARK ELECTRODE  
TDC TIME DELAY CONTROL  
WIRE NUT

LOCATED IN BURNER COMPARTMENT

LOCATED IN INDOOR BLOWER COMPARTMENT

CONTROL BOX

DIAGNOSTICS  
1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME  
2 FLASH - PRESSURE SWITCH OR INDUCER PROBLEM DETECTED  
3 FLASH - REPLY SWITCH PROTECTION  
4 FLASH - FLAME SENSOR AND GAS VALVE NOT ENERGIZED OR FLAME SENSED AND NO "W" SIGNAL  
5 FLASH - FLAME ROLL OUT SWITCH OPEN

### NOTES:

- MAIN UNIT TRANSFORMER PRIMARY LEADS: 60 HZ/240V, BLUE-208 V, BLACK-230 V. INTERCHANGE BLACK & BLUE LEADS FOR 208 V TRANSFORMER OPERATION.
- MOTORS & COMPRESSOR THERMALLY PROTECTED. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- CONDENSER FUSES IN GROUNDED RAINTIGHT ELECTRICAL PANEL WITH FUSED DISCONNECT.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH HERTZ SUPPLIED.
- REPLACEMENT FUSES MUST BE SAME TYPE & SIZE AS LISTED IN TOP OF COPELAND ZR\*\*KI COMPRESSORS ONLY.
- ON 2.5 - 4.0 TON MODELS ONLY.

### WIRE COLOR CODE

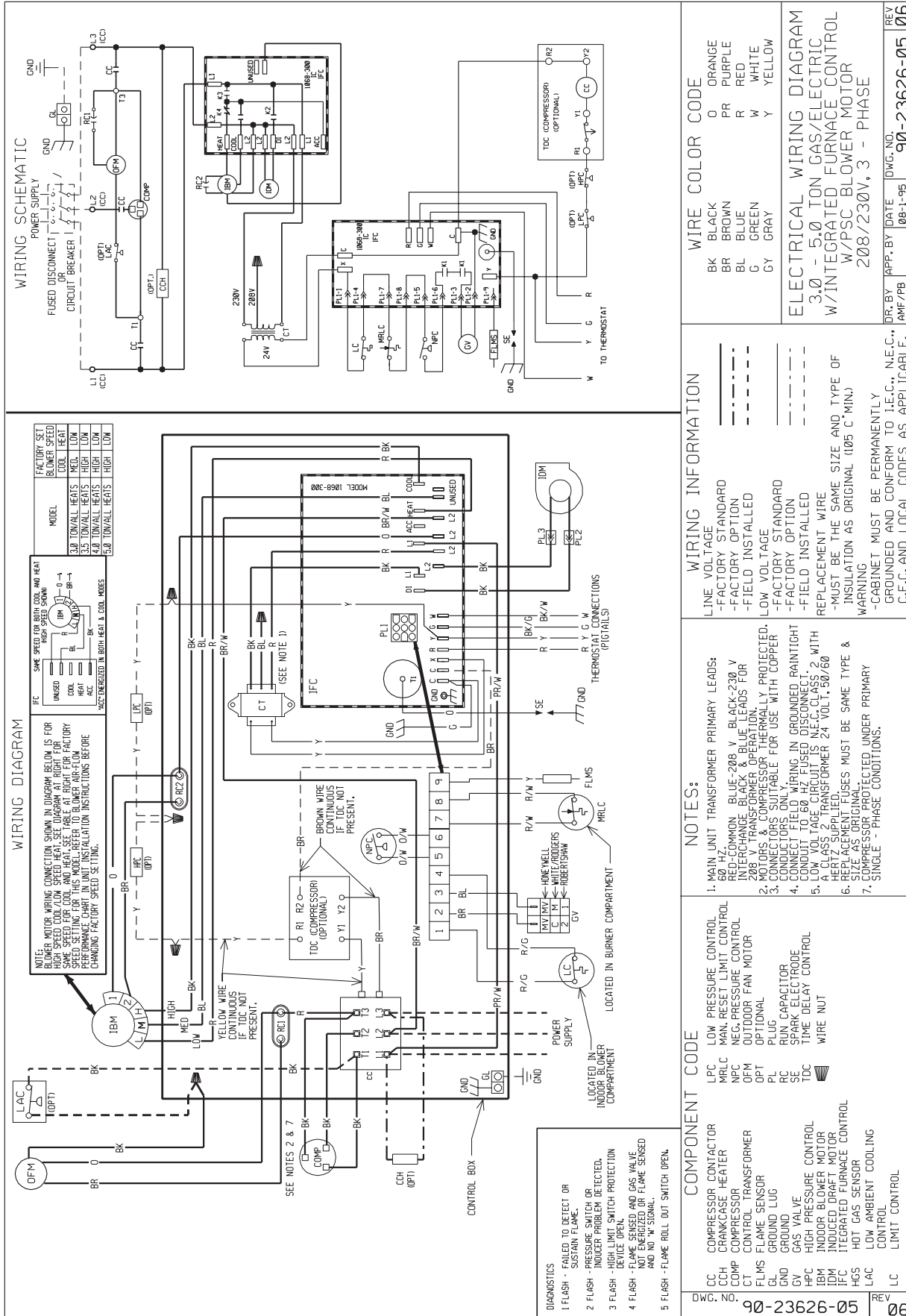
BK BLACK  
BR BROWN  
BL BLUE  
G GREEN  
GY GRAY  
O ORANGE  
PR PURPLE  
R RED  
W WHITE  
Y YELLOW

### ELECTRICAL WIRING DIAGRAM

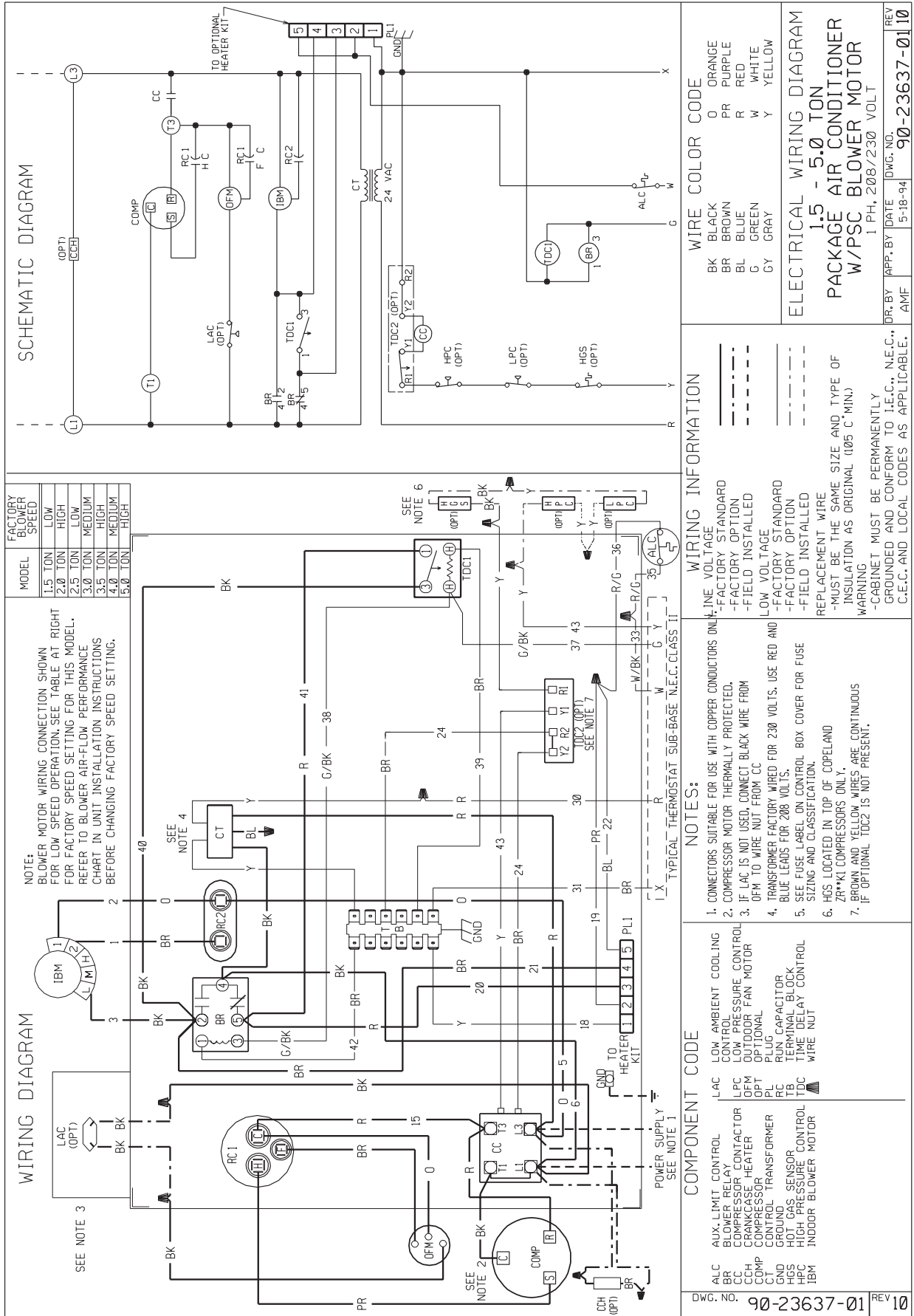
1.5 - 5.0 TON GAS/ELECTRIC W/INTEGRATED FURNACE CONTROL W/PSC BLOWER MOTOR 208/230V, 1 - PHASE

DWG. NO. **90-23626-04**

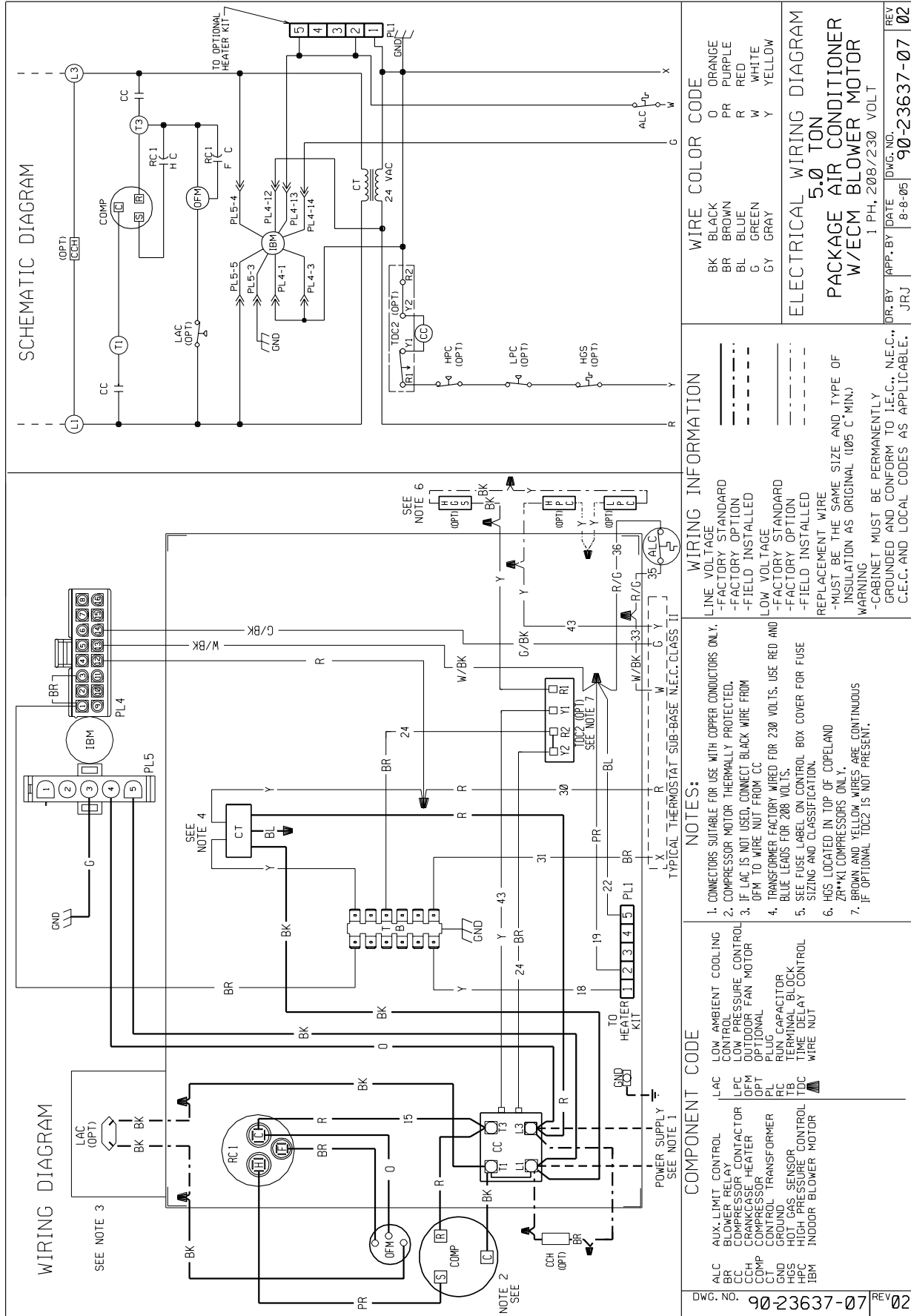
REV **05**

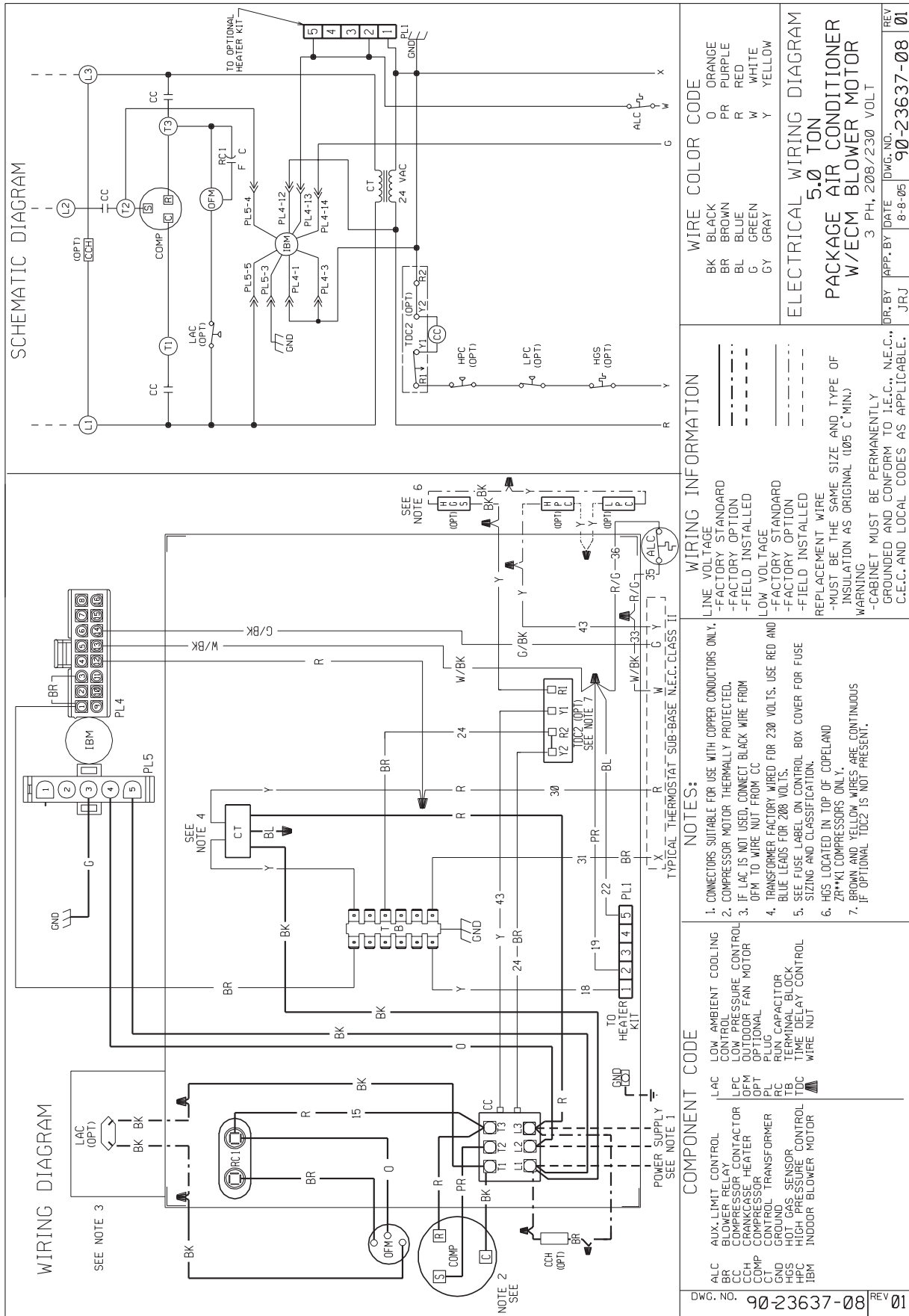












**ELECTRICAL WIRING DIAGRAM**

**5.0 TON**

**PACKAGE AIR CONDITIONER**

**W/ECM BLOWER MOTOR**

3 PH, 208/230 VOLT

DR. BY: JRJ  
APP. BY: JRJ  
DATE: 8-8-05  
DWG. NO.: 90-23637-08  
REV: 01







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

### **GENERAL TERMS OF LIMITED WARRANTY**

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

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

Condenser Coil and Evaporator Coil leaks caused by factory defects .....	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."*



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