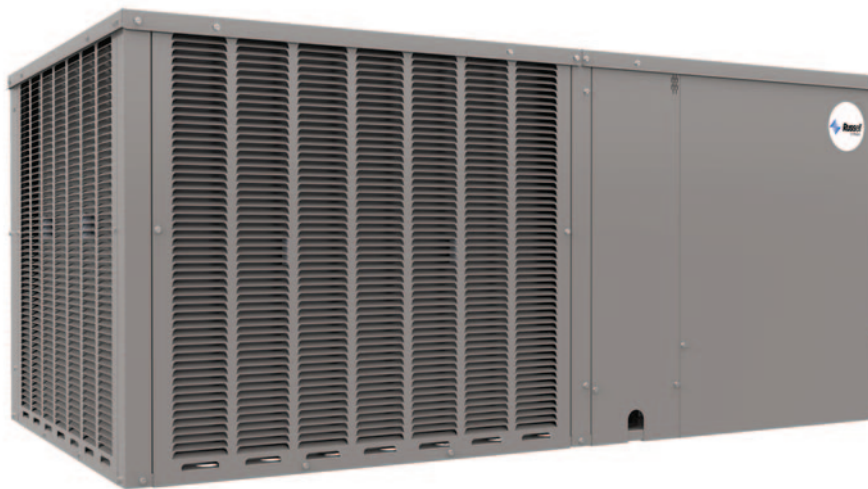




Vantix™ Line iR Residential Packaged Dedicated Horizontal Heat Pump



RHPBYC Series

Nominal Sizes: 2 to 5 Tons [7.0 to 17.6 kW]

Cooling Efficiency up to: 15.2 SEER2

Heating Efficiency up to: 7.2 HSPF2

Refrigerant Type: R-454B



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FEATURES AND BENEFITS

- **Two-Stage Scroll Compressors on all Models:** Provides maximum efficiency and quiet operation
- **Two Thermal Expansion Valves:** One for cooling, one for heating and are standard on all models for precise superheat control, reliability, and energy efficiency at all operating conditions
- **High and Low Pressure Controls:** Standard on all models for refrigerant component protection and reliability
- **Filter Drier:** Standard on all models
- **100% Factory Run Tested**
- **Tinned Indoor Coil:** Available as factory-installed option for better formicary corrosion resistance
- **Refrigerant Detection System:** An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation – if excess refrigerant is detected
- **Metal Base Rails:** Allow for separation between the unit base and the ground level, protecting the base from ground moisture and providing air circulation around the unit. It also allows for easier maneuverability during installation. To provide flexibility in space limited installations, the unit can be installed flush to the structure without blocking airflow over the outdoor coil or making any screws inaccessible for maintenance
- **Two Round 14" Duct Collars:** Included with each unit. The collar is crimped around the leading edge, making it easier to install duct onto the collar. A metal bead around the circumference prevents the attached ducting from sliding off after installation
- **Easy High and Low Refrigerant Pressure Measurement:** Two gauge ports located inside the control box allow for ease and accuracy
- **Removable Sloped Drain Pan:** Accessible through a small side panel. Helps to ensure indoor air quality (IAQ) throughout the life of the unit
- **Closed-Cell Insulation:** Used on the base of the unit, to prevent moisture from being absorbed and helps reduce mold content
- **Louvered Condenser Compartment:** Protects the coil against yard hazards and/or weather extremes
- **Easy Accessible Controls:**
 - Located in a large control box providing plenty of space for troubleshooting
 - Demand defrost control is used to manage the defrost cycle
 - Transformer is protected by an in-line fuse, which protects the transformer during a low-voltage electrical short
 - Low-voltage and high-voltage wiring connections are easily accessed and have ample room to maneuver
 - Number and color-coded wiring aids in troubleshooting and corresponds with the large, easy-to-read wiring diagram located on the inside of the control box access panel
- **Easily Removable Outdoor and Indoor Section Top Cover:** Allows access to the compressor, refrigerant tubing, blower housing and motors for easy required cleaning and service
- **Factory and Field Installed Supplemental Electric Heat Strips:** Available for periods of extreme cold temperatures with either dual or single-point power
- **Designing for Sustainability with Low GWP:** For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%¹ lower GWP than previous-generation refrigerants with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort

¹When comparing the GWP of A2L refrigerants R-454B to R-410A refrigerant.

Heat Pumps

<u>R</u>	<u>HP</u>	<u>B</u>	<u>Y</u>	<u>C</u>	<u>024</u>	<u>A</u>	<u>J</u>	<u>T</u>	<u>00</u>	<u>0</u>	<u>N</u>	<u>A</u>
Brand	Product Category	Platform	Refrigerant	Tier	Capacity BTU/HR	Major Series	Voltage	Drive	Electric Heat	Electric Heat Configuration	Control	Minor Series
R - Russell® By Rheem	HP - Heat Pump	B - ResiPack Dedicated Horizontal	Y - R-454B	C - Mid Tier (15.2 SEER2)	024 - 24K BTUH [7.03 kW] 036 - 36K BTUH [10.55 kW] 048 - 48K BTUH [14.07 kW] 060 - 60K BTUH [17.58 kW]	A - 1st Design Series	J - 1ph, 208/230/60	T - Constant Torque	00 - No Electric Heat 10 - 10 kW Electric Heat 15 - 15 kW Electric Heat 20 - 20 kW Electric Heat	0 - No Electric Heat 1 - Electric Heat Factory Installed	N - Non-Comm.	A - 1st Design

[] Designates Metric Conversions

Available Models
RHPBYC024AJT000NA
RHPBYC024AJT101NA
RHPBYC036AJT000NA
RHPBYC036AJT101NA
RHPBYC048AJT000NA
RHPBYC048AJT151NA
RHPBYC060AJT000NA
RHPBYC060AJT201NA

NOTE: Further heater kits available to purchase for field installation.
Tinned evaporator coil options (AUA) also available.

NOMINAL SIZES 2-5 TONS [7-17.6 kW]

Model RHPBYC Series	024AJT	036AJT	048AJT	060AJT
Cooling Performance¹				
Nominal Cooling Capacity Btu/h [kW]	24,000 [7.03]	36,000 [10.55]	48,000 [14.06]	60,000 [17.58]
EER2/SEER2	11.5/15.0	11.5/15.2	11.0/15.2	11.0/15.2
Nominal CFM/AHRI Rated CFM [L/s]	800/750 [378/354]	1275/1200 [602/566]	1400/1400 [661/661]	1850/1800 [873/850]
AHRI Net Cooling Capacity Btu/h [kW]	22,800 [6.68]	34,200 [10.02]	46,000 [13.48]	56,500 [16.56]
Net Sensible Capacity Btu/h [kW]	17,586 [5.15]	27,201 [7.97]	34,809 [10.20]	42,532 [12.46]
Net Latent Capacity Btu/h [kW]	5,214 [1.53]	6,999 [2.05]	11,191 [3.28]	13,968 [4.09]
Net System Power kW	1.85	2.88	4.08	5.17
Heating Performance (Heat Pumps)²				
High Temp. Btu/h [kW] Rating	22,600 [6.62]	34,000 [9.96]	45,500 [13.33]	56,500 [16.56]
High System Power COP	3.42	3.69	3.39	3.6
Low Temp. BTU/h [kW] Rating	12,000 [3.52]	17,900 [5.25]	26,400 [7.74]	35,000 [10.26]
High System Power COP	2.19	2.33	2.26	2.42
HSPF2 (Btu/h/Watts-h)	6.7	7.2	7..2	7.2
Compressor				
No./Type	1/2/scroll	1/2/scroll	1/2/scroll	1/2/scroll
Outdoor Sound Rating (dB)³				
	69	69	79	83
Outdoor Coil—Fin Type				
Tube Type	3/8 Louver	3/8 Louver	3/8 Louver	3/8 Louver
Rifle Type	Rifle 1840	Rifle 1840	Rifle 1840	Rifle 1840
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	0.375 [9.53]	0.375 [9.53]	0.375 [9.53]	0.375 [9.53]
Face Area sq. ft. [sq. m]	13.65 [1.27]	13.65 [1.27]	16.54 [1.54]	16.54 [1.54]
Rows / FPI [FPcm]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]	2 / 18 [7]
Indoor Coil - Fin Type				
Tube Type	3/8 Louver	3/8 Louver	3/8 Louver	3/8 Louver
Rifle Type	Rifle 1840	Rifle 1840	Rifle 1840	Rifle 1840
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	0.375 [9.53]	0.375 [9.53]	0.375 [9.53]	0.375 [9.53]
Face Area sq. ft. [sq. m]	5.8 [0.54]	5.8 [0.54]	5.8 [0.54]	5.8 [0.54]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Connection No./Size in. [mm]	1 / 1.000 [25.40]	1 / 1.000 [25.40]	1 / 1.000 [25.40]	1 / 1.000 [25.40]
Outdoor Fan - Type				
Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24.0 [609.6]	1/24.0 [609.6]	1/24.0 [609.6]	1/24.0 [609.6]
Drive Type/No. Speeds	Direct/	Direct/	Direct/	Direct/
CFM [L/s]	2800 [1321]	3100 [1463]	4400 [2077]	4500 [2124]
No. Motors/HP	1 at 1/3	1 at 1/3	1 at 1/2	1 at 1/2
Motor RPM	750	825	1015	1050
Indoor Fan - Type				
Constant Torque	Constant Torque	Constant Torque	Constant Torque	Constant Torque
No. Used/Diameter in. [mm]	1/11x9 [279x229]	1/11x9 [279x229]	1/11x9 [279x229]	1/11x9 [279x229]
Drive Type	Direct	Direct	Direct	Direct
No. Speeds	Multiple Speed	Multiple Speed	Multiple Speed	Multiple Speed
No. Motors	1	1	1	1
Motor HP	1/2	3/4	3/4	1
Motor RPM	1050	1050	1050	1050
Motor Frame Size	48	48	48	48
Filter - Type				
Field Supplied	Field Supplied	Field Supplied	Field Supplied	Field Supplied
Furnished	No	No	No	No
(NO.) Size Recommended in. [mm x mm x mm]	(0) 1x24x24 [25x609x609]	(0) 1x24x24 [25x609x609]	(0) 1x24x24 [25x609x609]	(0) 1x24x24 [25x609x609]
Refrigerant Charge Oz. [g]				
	194.4 [5510.0]	179.3 [5083.1]	198.6 [4560.0]	192.0 [5443.1]
Weights				
Net Weight lbs. [kg]	330 [149.7]	350 [158.8]	430 [195]	430 [195]
Ship Weight lbs. [kg]	355 [161]	375 [170.1]	455 [206.4]	455 [206.4]

See Page 6 for Notes.

[] Designates Metric Conversions

NOTES:

1. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER2 and/or SEER2 are rated at AHRI conditions and in accordance with DOE test procedures.
3. HSPF2 is rated at AHRI conditions and in accordance with DOE test procedures.

GROSS SYSTEMS COOLING PERFORMANCE DATA—RHPBYC024

RHPBYC024 - 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]			950 [448]	800 [378]	725 [342]	950 [448]	800 [378]	725 [342]	950 [448]	800 [378]	725 [342]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	31.6 [9.3] 20.0 [5.9] 1.5	30.5 [8.9] 18.4 [5.4] 1.5	30.0 [8.8] 17.6 [5.2] 1.5	29.0 [8.5] 21.9 [6.4] 1.5	28.0 [8.2] 20.1 [5.9] 1.5	27.6 [8.1] 19.2 [5.6] 1.5	27.1 [7.9] 24.4 [7.2] 1.5	26.2 [7.7] 22.5 [6.6] 1.5	25.8 [7.6] 21.5 [6.3] 1.4
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	30.9 [9.1] 19.8 [5.8] 1.6	29.9 [8.8] 18.2 [5.3] 1.6	29.3 [8.6] 17.4 [5.1] 1.5	28.3 [8.3] 21.7 [6.4] 1.6	27.4 [8.0] 19.9 [5.8] 1.6	26.9 [7.9] 19.0 [5.6] 1.5	26.4 [7.7] 24.2 [7.1] 1.6	25.5 [7.5] 22.2 [6.5] 1.5	25.1 [7.4] 21.3 [6.2] 1.5
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	30.1 [8.8] 19.5 [5.7] 1.7	29.1 [8.5] 17.9 [5.2] 1.6	28.6 [8.4] 17.2 [5.0] 1.6	27.6 [8.1] 21.4 [6.3] 1.7	26.7 [7.8] 19.6 [5.7] 1.6	26.2 [7.7] 18.8 [5.5] 1.6	25.7 [7.5] 23.9 [7.0] 1.7	24.8 [7.3] 22.0 [6.4] 1.6	24.4 [7.2] 21.0 [6.2] 1.6
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	29.3 [8.6] 19.2 [5.6] 1.8	28.4 [8.3] 17.6 [5.2] 1.7	27.9 [8.2] 16.8 [4.9] 1.7	26.8 [7.9] 21.0 [6.2] 1.8	25.9 [7.6] 19.3 [5.7] 1.7	25.5 [7.5] 18.5 [5.4] 1.7	24.9 [7.3] 23.6 [6.9] 1.7	24.1 [7.1] 21.7 [6.4] 1.7	23.6 [6.9] 20.7 [6.1] 1.7
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	28.5 [8.4] 18.8 [5.5] 1.9	27.5 [8.1] 17.2 [5.0] 1.8	27.1 [7.9] 16.5 [4.8] 1.8	25.9 [7.6] 20.6 [6.0] 1.9	25.1 [7.4] 19.0 [5.6] 1.8	24.6 [7.2] 18.1 [5.3] 1.8	24.0 [7.0] 23.2 [6.8] 1.8	23.2 [6.8] 21.3 [6.2] 1.8	22.8 [6.7] 20.4 [6.0] 1.8
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	27.6 [8.1] 18.3 [5.4] 2.0	26.7 [7.8] 16.8 [4.9] 1.9	26.2 [7.7] 16.1 [4.7] 1.9	25.0 [7.3] 20.1 [5.9] 2.0	24.2 [7.1] 18.5 [5.4] 1.9	23.8 [7.0] 17.7 [5.2] 1.9	23.1 [6.8] 22.7 [6.7] 1.9	22.3 [6.5] 20.9 [6.1] 1.9	22.0 [6.4] 19.9 [5.8] 1.9
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	26.6 [7.8] 17.8 [5.2] 2.1	25.7 [7.5] 16.3 [4.8] 2.0	25.3 [7.4] 15.6 [4.6] 2.0	24.0 [7.0] 19.6 [5.7] 2.1	23.2 [6.8] 18.0 [5.3] 2.0	22.8 [6.7] 17.2 [5.0] 2.0	22.1 [6.5] 22.1 [6.5] 2.1	21.4 [6.3] 20.4 [6.0] 2.0	21.0 [6.2] 19.5 [5.7] 2.0
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	25.6 [7.5] 17.2 [5.0] 2.2	24.7 [7.2] 15.8 [4.6] 2.1	24.3 [7.1] 15.1 [4.4] 2.1	23.0 [6.7] 19.0 [5.6] 2.2	22.2 [6.5] 17.5 [5.1] 2.1	21.9 [6.4] 16.7 [4.9] 2.1	21.1 [6.2] 21.1 [6.2] 2.2	20.4 [6.0] 19.8 [5.8] 2.1	20.1 [5.9] 19.0 [5.6] 2.1
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	24.5 [7.2] 16.5 [4.8] 2.3	23.7 [6.9] 15.2 [4.5] 2.3	23.3 [6.8] 14.5 [4.2] 2.2	21.9 [6.4] 18.4 [5.4] 2.3	21.2 [6.2] 16.9 [5.0] 2.3	20.8 [6.1] 16.2 [4.7] 2.2	20.0 [5.9] 20.0 [5.9] 2.3	19.3 [5.7] 19.2 [5.6] 2.2	19.0 [5.6] 18.4 [5.4] 2.2
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	23.3 [6.8] 15.8 [4.6] 2.4	22.6 [6.6] 14.5 [4.2] 2.4	22.2 [6.5] 13.9 [4.1] 2.4	20.8 [6.1] 17.7 [5.2] 2.4	20.1 [5.9] 16.2 [4.7] 2.4	19.7 [5.8] 15.5 [4.5] 2.4	18.9 [5.5] 18.9 [5.5] 2.4	18.2 [5.3] 18.2 [5.3] 2.4	17.9 [5.2] 17.8 [5.2] 2.3
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	22.1 [6.5] 15.0 [4.4] 2.5	21.4 [6.3] 13.8 [4.0] 2.5	21.0 [6.2] 13.2 [3.9] 2.5	19.6 [5.7] 16.9 [5.0] 2.5	18.9 [5.5] 15.5 [4.5] 2.5	18.6 [5.5] 14.8 [4.3] 2.5	17.7 [5.2] 17.7 [5.2] 2.5	17.1 [5.0] 17.1 [5.0] 2.5	16.8 [4.9] 16.8 [4.9] 2.5

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

Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

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

[] Designates Metric Conversions

GROSS SYSTEMS COOLING PERFORMANCE DATA—RHPBYC036

RHPBYC036 - 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]			1350 [637]	1300 [637]	1050 [496]	1350 [637]	1300 [637]	1050 [496]	1350 [637]	1300 [637]	1050 [496]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	43.7 [12.8] 25.7 [7.5] 2.4	43.4 [12.7] 25.2 [7.4] 2.4	41.9 [12.3] 23.0 [6.7] 2.4	40.5 [11.9] 31.2 [9.1] 2.4	40.2 [11.8] 30.7 [9.0] 2.4	38.8 [11.4] 27.9 [8.2] 2.3	38.2 [11.2] 38.2 [11.2] 2.4	37.9 [11.1] 37.5 [11.0] 2.4	36.6 [10.7] 34.1 [10.0] 2.3
	80 [26.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	42.8 [12.5] 25.4 [7.4] 2.5	42.5 [12.5] 24.9 [7.3] 2.5	41.0 [12.0] 22.7 [6.7] 2.5	39.6 [11.6] 31.0 [9.1] 2.5	39.4 [11.5] 30.4 [8.9] 2.5	38.0 [11.1] 27.7 [8.1] 2.5	37.3 [10.9] 37.3 [10.9] 2.5	37.1 [10.9] 37.1 [10.9] 2.5	35.8 [10.5] 33.9 [9.9] 2.4
	85 [29.4]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	41.8 [12.3] 25.0 [7.3] 2.7	41.6 [12.2] 24.6 [7.2] 2.6	40.1 [11.8] 22.4 [6.6] 2.6	38.7 [11.3] 30.6 [9.0] 2.6	38.4 [11.3] 30.1 [8.8] 2.6	37.1 [10.9] 27.4 [8.0] 2.6	36.4 [10.7] 36.4 [10.7] 2.6	36.1 [10.6] 36.1 [10.6] 2.6	34.8 [10.2] 33.6 [9.8] 2.6
	90 [32.2]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	40.8 [12.0] 24.6 [7.2] 2.8	40.5 [11.9] 24.2 [7.1] 2.8	39.1 [11.5] 22.0 [6.4] 2.7	37.6 [11.0] 30.2 [8.9] 2.8	37.3 [10.9] 29.7 [8.7] 2.7	36.0 [10.6] 27.0 [7.9] 2.7	35.3 [10.3] 35.3 [10.3] 2.7	35.0 [10.3] 35.0 [10.3] 2.7	33.8 [9.9] 33.2 [9.7] 2.7
	95 [35]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	39.6 [11.6] 24.2 [7.1] 2.9	39.3 [11.5] 23.7 [6.9] 2.9	38.0 [11.1] 21.6 [6.3] 2.9	36.4 [10.7] 29.7 [8.7] 2.9	36.2 [10.6] 29.2 [8.6] 2.9	34.9 [10.2] 26.6 [7.8] 2.8	34.1 [10.0] 34.1 [10.0] 2.9	33.9 [9.9] 33.9 [9.9] 2.9	32.7 [9.6] 32.7 [9.6] 2.8
	100 [37.8]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	38.4 [11.3] 23.6 [6.9] 3.1	38.1 [11.2] 23.2 [6.8] 3.0	36.8 [10.8] 21.1 [6.2] 3.0	35.2 [10.3] 29.2 [8.6] 3.0	34.9 [10.2] 28.7 [8.4] 3.0	33.7 [9.9] 26.1 [7.6] 3.0	32.9 [9.6] 32.9 [9.6] 3.0	32.7 [9.6] 32.7 [9.6] 3.0	31.5 [9.2] 31.5 [9.2] 3.0
	105 [40.6]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	37.0 [10.8] 23.1 [6.8] 3.2	36.8 [10.8] 22.7 [6.7] 3.2	35.5 [10.4] 20.6 [6.0] 3.1	33.9 [9.9] 28.6 [8.4] 3.2	33.6 [9.8] 28.1 [8.2] 3.2	32.4 [9.5] 25.6 [7.5] 3.1	31.5 [9.2] 31.5 [9.2] 3.2	31.3 [9.2] 31.3 [9.2] 3.2	30.2 [8.9] 30.2 [8.9] 3.1
	110 [43.3]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	35.6 [10.4] 22.4 [6.6] 3.4	35.3 [10.3] 22.0 [6.4] 3.4	34.1 [10.0] 20.1 [5.9] 3.3	32.4 [9.5] 28.0 [8.2] 3.3	32.2 [9.4] 27.5 [8.1] 3.3	31.1 [9.1] 25.0 [7.3] 3.3	30.1 [8.8] 30.1 [8.8] 3.3	29.9 [8.8] 29.9 [8.8] 3.3	28.8 [8.4] 28.8 [8.4] 3.3
	115 [46.1]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	34.1 [10.0] 21.7 [6.4] 3.5	33.8 [9.9] 21.4 [6.3] 3.5	32.6 [9.6] 19.4 [5.7] 3.5	30.9 [9.1] 27.3 [8.0] 3.5	30.7 [9.0] 26.8 [7.9] 3.5	29.6 [8.7] 24.4 [7.2] 3.4	28.6 [8.4] 28.6 [8.4] 3.5	28.4 [8.3] 28.4 [8.3] 3.5	27.4 [8.0] 27.4 [8.0] 3.4
	120 [48.9]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	32.4 [9.5] 21.0 [6.2] 3.7	32.2 [9.4] 20.6 [6.0] 3.7	31.1 [9.1] 18.8 [5.5] 3.6	29.3 [8.6] 26.6 [7.8] 3.7	29.1 [8.5] 26.1 [7.6] 3.7	28.0 [8.2] 23.7 [6.9] 3.6	27.0 [7.9] 27.0 [7.9] 3.7	26.8 [7.9] 26.8 [7.9] 3.7	25.8 [7.6] 25.8 [7.6] 3.6
	125 [51.7]	Total kBtu/h [kW] Sens kBtu/h [kW] Power	30.7 [9.0] 20.2 [5.9] 3.9	30.5 [8.9] 19.8 [5.8] 3.9	29.4 [8.6] 18.0 [5.3] 3.8	27.5 [8.1] 25.7 [7.5] 3.9	27.4 [8.0] 25.3 [7.4] 3.9	26.4 [7.7] 23.0 [6.7] 3.8	25.2 [7.4] 25.2 [7.4] 3.9	25.1 [7.4] 25.1 [7.4] 3.8	24.2 [7.1] 24.2 [7.1] 3.8

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

Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
Power —kW input

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

[] Designates Metric Conversions

GROSS SYSTEMS COOLING PERFORMANCE DATA—RHPBYC048

RHPBYC048 - 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]			1775 [838]	1425 [673]	1375 [649]	1775 [838]	1425 [673]	1375 [649]	1775 [838]	1425 [673]	1375 [649]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW]	61.1 [17.9]	58.5 [17.1]	58.1 [17.0]	57.8 [16.9]	55.4 [16.2]	55.0 [16.1]	54.6 [16.0]	52.3 [15.3]	51.9 [15.2]
		Sens kBtu/h [kW]	35.9 [10.5]	32.2 [9.4]	31.7 [9.3]	43.5 [12.7]	39.0 [11.4]	38.3 [11.2]	49.9 [14.6]	44.8 [13.1]	44.1 [12.9]
		Power	3.6	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4
	80 [26.7]	Total kBtu/h [kW]	59.1 [17.3]	56.5 [16.6]	56.2 [16.5]	55.8 [16.4]	53.4 [15.7]	53.1 [15.6]	52.5 [15.4]	50.3 [14.7]	50.0 [14.7]
		Sens kBtu/h [kW]	34.8 [10.2]	31.2 [9.1]	30.7 [9.0]	42.3 [12.4]	38.0 [11.1]	37.4 [11.0]	48.8 [14.3]	43.8 [12.8]	43.1 [12.6]
		Power	3.7	3.7	3.6	3.7	3.6	3.6	3.6	3.5	3.5
	85 [29.4]	Total kBtu/h [kW]	57.0 [16.7]	54.6 [16.0]	54.2 [15.9]	53.8 [15.8]	51.5 [15.1]	51.1 [15.0]	50.5 [14.8]	48.3 [14.2]	48.0 [14.1]
		Sens kBtu/h [kW]	33.7 [9.9]	30.2 [8.9]	29.7 [8.7]	41.3 [12.1]	37.0 [10.8]	36.4 [10.7]	47.8 [14.0]	42.9 [12.6]	42.1 [12.3]
		Power	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7
	90 [32.2]	Total kBtu/h [kW]	55.0 [16.1]	52.6 [15.4]	52.3 [15.3]	51.7 [15.2]	49.5 [14.5]	49.2 [14.4]	48.5 [14.2]	46.4 [13.6]	46.1 [13.5]
		Sens kBtu/h [kW]	32.7 [9.6]	29.3 [8.6]	28.9 [8.5]	40.3 [11.8]	36.1 [10.6]	35.5 [10.4]	46.8 [13.7]	41.9 [12.3]	41.3 [12.1]
		Power	4.1	4.0	4.0	4.0	3.9	3.9	4.0	3.9	3.9
95 [35]	Total kBtu/h [kW]	52.9 [15.5]	50.7 [14.9]	50.4 [14.8]	49.7 [14.6]	47.6 [14.0]	47.3 [13.9]	46.4 [13.6]	44.4 [13.0]	44.2 [13.0]	
	Sens kBtu/h [kW]	31.7 [9.3]	28.5 [8.4]	28.0 [8.2]	39.3 [11.5]	35.3 [10.3]	34.7 [10.2]	45.8 [13.4]	41.1 [12.0]	40.4 [11.8]	
	Power	4.3	4.2	4.1	4.2	4.1	4.1	4.1	4.0	4.0	
100 [37.8]	Total kBtu/h [kW]	50.9 [14.9]	48.7 [14.3]	48.4 [14.2]	47.6 [14.0]	45.6 [13.4]	45.3 [13.3]	44.4 [13.0]	42.5 [12.5]	42.2 [12.4]	
	Sens kBtu/h [kW]	30.9 [9.1]	27.7 [8.1]	27.2 [8.0]	38.4 [11.3]	34.5 [10.1]	33.9 [9.9]	44.4 [13.0]	40.3 [11.8]	39.6 [11.6]	
	Power	4.4	4.3	4.3	4.4	4.3	4.3	4.3	4.2	4.2	
105 [40.6]	Total kBtu/h [kW]	48.9 [14.3]	46.8 [13.7]	46.5 [13.6]	45.6 [13.4]	43.7 [12.8]	43.4 [12.7]	42.3 [12.4]	40.5 [11.9]	40.3 [11.8]	
	Sens kBtu/h [kW]	30.0 [8.8]	26.9 [7.9]	26.5 [7.8]	37.6 [11.0]	33.7 [9.9]	33.2 [9.7]	42.3 [12.4]	39.5 [11.6]	38.9 [11.4]	
	Power	4.6	4.5	4.5	4.5	4.4	4.4	4.5	4.4	4.4	
110 [43.3]	Total kBtu/h [kW]	46.8 [13.7]	44.8 [13.1]	44.5 [13.0]	43.6 [12.8]	41.7 [12.2]	41.4 [12.1]	40.3 [11.8]	38.6 [11.3]	38.3 [11.2]	
	Sens kBtu/h [kW]	29.2 [8.6]	26.2 [7.7]	25.8 [7.6]	36.8 [10.8]	33.0 [9.7]	32.5 [9.5]	40.3 [11.8]	38.6 [11.3]	38.2 [11.2]	
	Power	4.8	4.7	4.6	4.7	4.6	4.6	4.6	4.5	4.5	
115 [46.1]	Total kBtu/h [kW]	44.8 [13.1]	42.9 [12.6]	42.6 [12.5]	41.5 [12.2]	39.8 [11.7]	39.5 [11.6]	38.3 [11.2]	36.6 [10.7]	36.4 [10.7]	
	Sens kBtu/h [kW]	28.5 [8.4]	25.6 [7.5]	25.2 [7.4]	36.1 [10.6]	32.4 [9.5]	31.8 [9.3]	38.3 [11.2]	36.6 [10.7]	36.4 [10.7]	
	Power	4.9	4.8	4.8	4.9	4.8	4.8	4.8	4.7	4.7	
120 [48.9]	Total kBtu/h [kW]	42.8 [12.5]	40.9 [12.0]	40.7 [11.9]	39.5 [11.6]	37.8 [11.1]	37.6 [11.0]	36.2 [10.6]	34.7 [10.2]	34.5 [10.1]	
	Sens kBtu/h [kW]	27.8 [8.1]	25.0 [7.3]	24.6 [7.2]	35.4 [10.4]	31.8 [9.3]	31.3 [9.2]	36.2 [10.6]	34.7 [10.2]	34.5 [10.1]	
	Power	5.1	5.0	5.0	5.0	4.9	4.9	5.0	4.9	4.9	
125 [51.7]	Total kBtu/h [kW]	40.7 [11.9]	39.0 [11.4]	38.7 [11.3]	37.5 [11.0]	35.9 [10.5]	35.6 [10.4]	34.2 [10.0]	32.7 [9.6]	32.5 [9.5]	
	Sens kBtu/h [kW]	27.2 [8.0]	24.4 [7.2]	24.0 [7.0]	34.8 [10.2]	31.2 [9.1]	30.7 [9.0]	34.2 [10.0]	32.7 [9.6]	32.5 [9.5]	
	Power	5.3	5.2	5.1	5.2	5.1	5.1	5.1	5.0	5.0	

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

Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
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

GROSS SYSTEMS COOLING PERFORMANCE DATA—RHPBYC060

RHPBYC060 - 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]			2175 [1026]	1875 [885]	1700 [802]	2175 [1026]	1875 [885]	1700 [802]	2175 [1026]	1875 [885]	1700 [802]
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total kBtu/h [kW]	68.1 [20.0]	66.2 [19.4]	65.0 [19.1]	65.1 [19.1]	63.3 [18.6]	62.2 [18.2]	62.1 [18.2]	60.3 [17.7]	59.3 [17.4]
		Sens kBtu/h [kW]	40.1 [11.8]	37.4 [11.0]	35.7 [10.5]	50.0 [14.7]	46.5 [13.6]	44.5 [13.0]	56.9 [16.7]	52.9 [15.5]	50.6 [14.8]
		Power	4.5	4.4	4.4	4.4	4.4	4.3	4.4	4.3	4.3
	80 [26.7]	Total kBtu/h [kW]	66.8 [19.6]	64.9 [19.0]	63.8 [18.7]	63.8 [18.7]	62.0 [18.2]	60.9 [17.8]	60.8 [17.8]	59.1 [17.3]	58.1 [17.0]
		Sens kBtu/h [kW]	39.7 [11.6]	37.0 [10.8]	35.4 [10.4]	49.6 [14.5]	46.2 [13.5]	44.1 [12.9]	56.5 [16.6]	52.5 [15.4]	50.2 [14.7]
		Power	4.7	4.6	4.6	4.6	4.6	4.5	4.6	4.5	4.5
	85 [29.4]	Total kBtu/h [kW]	65.5 [19.2]	63.7 [18.7]	62.6 [18.3]	62.5 [18.3]	60.7 [17.8]	59.7 [17.5]	59.5 [17.4]	57.8 [16.9]	56.9 [16.7]
		Sens kBtu/h [kW]	39.4 [11.5]	36.6 [10.7]	35.0 [10.3]	49.2 [14.4]	45.8 [13.4]	43.8 [12.8]	56.1 [16.4]	52.2 [15.3]	49.9 [14.6]
		Power	4.9	4.8	4.8	4.9	4.8	4.8	4.8	4.7	4.7
	90 [32.2]	Total kBtu/h [kW]	64.2 [18.8]	62.4 [18.3]	61.3 [18.0]	61.2 [17.9]	59.5 [17.4]	58.5 [17.1]	58.2 [17.1]	56.6 [16.6]	55.6 [16.3]
Sens kBtu/h [kW]		39.0 [11.4]	36.3 [10.6]	34.7 [10.2]	48.9 [14.3]	45.5 [13.3]	43.5 [12.7]	55.7 [16.3]	51.9 [15.2]	49.6 [14.5]	
Power		5.1	5.0	5.0	5.1	5.0	5.0	5.0	4.9	4.9	
95 [35]	Total kBtu/h [kW]	62.9 [18.4]	61.2 [17.9]	60.1 [17.6]	59.9 [17.6]	58.2 [17.1]	57.3 [16.8]	56.9 [16.7]	55.3 [16.2]	54.4 [15.9]	
	Sens kBtu/h [kW]	38.7 [11.3]	36.0 [10.6]	34.4 [10.1]	48.6 [14.2]	45.2 [13.2]	43.2 [12.7]	55.4 [16.2]	51.6 [15.1]	49.3 [14.4]	
	Power	5.3	5.3	5.2	5.3	5.2	5.2	5.2	5.2	5.1	
100 [37.8]	Total kBtu/h [kW]	61.6 [18.1]	59.9 [17.6]	58.9 [17.3]	58.7 [17.2]	57.0 [16.7]	56.0 [16.4]	55.7 [16.3]	54.1 [15.9]	53.2 [15.6]	
	Sens kBtu/h [kW]	38.4 [11.3]	35.7 [10.5]	34.2 [10.0]	48.3 [14.2]	44.9 [13.2]	43.0 [12.6]	55.1 [16.1]	51.3 [15.0]	49.1 [14.4]	
	Power	5.6	5.5	5.4	5.5	5.4	5.4	5.5	5.4	5.3	
105 [40.6]	Total kBtu/h [kW]	60.4 [17.7]	58.7 [17.2]	57.7 [16.9]	57.4 [16.8]	55.7 [16.3]	54.8 [16.1]	54.4 [15.9]	52.8 [15.5]	51.9 [15.2]	
	Sens kBtu/h [kW]	38.2 [11.2]	35.5 [10.4]	34.0 [10.0]	48.0 [14.1]	44.7 [13.1]	42.8 [12.5]	54.4 [15.9]	51.1 [15.0]	48.9 [14.3]	
	Power	5.8	5.7	5.6	5.7	5.7	5.6	5.7	5.6	5.6	
110 [43.3]	Total kBtu/h [kW]	59.1 [17.3]	57.4 [16.8]	56.4 [16.5]	56.1 [16.4]	54.5 [16.0]	53.6 [15.7]	53.1 [15.6]	51.6 [15.1]	50.7 [14.9]	
	Sens kBtu/h [kW]	38.0 [11.1]	35.3 [10.3]	33.8 [9.9]	47.8 [14.0]	44.5 [13.0]	42.6 [12.5]	53.1 [15.6]	50.9 [14.9]	48.7 [14.3]	
	Power	6.0	5.9	5.9	6.0	5.9	5.8	5.9	5.8	5.8	
115 [46.1]	Total kBtu/h [kW]	57.8 [16.9]	56.2 [16.5]	55.2 [16.2]	54.8 [16.1]	53.2 [15.6]	52.3 [15.3]	51.8 [15.2]	50.3 [14.7]	49.5 [14.5]	
	Sens kBtu/h [kW]	37.8 [11.1]	35.2 [10.3]	33.6 [9.8]	47.7 [14.0]	44.3 [13.0]	42.4 [12.4]	51.8 [15.2]	50.3 [14.7]	48.5 [14.2]	
	Power	6.2	6.1	6.1	6.2	6.1	6.0	6.1	6.0	6.0	
120 [48.9]	Total kBtu/h [kW]	56.5 [16.6]	54.9 [16.1]	54.0 [15.8]	53.5 [15.7]	52.0 [15.2]	51.1 [15.0]	50.5 [14.8]	49.1 [14.4]	48.3 [14.2]	
	Sens kBtu/h [kW]	37.6 [11.0]	35.0 [10.3]	33.5 [9.8]	47.5 [13.9]	44.2 [13.0]	42.3 [12.4]	50.5 [14.8]	49.1 [14.4]	48.3 [14.2]	
	Power	6.4	6.3	6.3	6.4	6.3	6.3	6.3	6.2	6.2	
125 [51.7]	Total kBtu/h [kW]	55.2 [16.2]	53.7 [15.7]	52.7 [15.4]	52.2 [15.3]	50.7 [14.9]	49.9 [14.6]	49.2 [14.4]	47.8 [14.0]	47.0 [13.8]	
	Sens kBtu/h [kW]	37.5 [11.0]	34.9 [10.2]	33.4 [9.8]	47.4 [13.9]	44.1 [12.9]	42.2 [12.4]	49.2 [14.4]	47.8 [14.0]	47.0 [13.8]	
	Power	6.6	6.6	6.5	6.6	6.5	6.5	6.6	6.5	6.4	

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

Total —Total capacity x 1000 Btu/h
Sens —Sensible capacity x 1000 Btu/h
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

HEATING PERFORMANCE DATA—RHPBYC024

IDB			60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			825 [389]	800 [378]	650 [307]	825 [389]	800 [378]	650 [307]	825 [389]	800 [378]	650 [307]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	8.2 [2.4] 1.4	8.1 [2.4] 1.4	8.0 [2.3] 1.4	7.4 [2.2] 1.6	7.4 [2.2] 1.6	7.3 [2.1] 1.6	6.6 [1.9] 1.8	6.6 [1.9] 1.8	6.5 [1.9] 1.8
	5 [-15]	Total kBtu/h [kW] Power	9.8 [2.9] 1.4	9.7 [2.8] 1.4	9.6 [2.8] 1.4	9.0 [2.6] 1.6	8.9 [2.6] 1.6	8.8 [2.6] 1.6	8.2 [2.4] 1.8	8.2 [2.4] 1.8	8.0 [2.3] 1.9
	10 [-12.2]	Total kBtu/h [kW] Power	11.3 [3.3] 1.4	11.3 [3.3] 1.4	11.2 [3.3] 1.4	10.6 [3.1] 1.6	10.5 [3.1] 1.6	10.4 [3.0] 1.6	9.8 [2.9] 1.8	9.7 [2.8] 1.8	9.6 [2.8] 1.9
	15 [-9.4]	Total kBtu/h [kW] Power	12.9 [3.8] 1.4	12.9 [3.8] 1.4	12.7 [3.7] 1.4	12.1 [3.5] 1.6	12.1 [3.5] 1.6	12.0 [3.5] 1.7	11.4 [3.3] 1.8	11.3 [3.3] 1.8	11.2 [3.3] 1.9
	20 [-6.7]	Total kBtu/h [kW] Power	14.5 [4.2] 1.4	14.5 [4.2] 1.4	14.3 [4.2] 1.5	13.7 [4.0] 1.7	13.7 [4.0] 1.7	13.5 [4.0] 1.7	12.9 [3.8] 1.9	12.9 [3.8] 1.9	12.7 [3.7] 1.9
	25 [-3.9]	Total kBtu/h [kW] Power	16.1 [4.7] 1.5	16.1 [4.7] 1.5	15.9 [4.7] 1.5	15.3 [4.5] 1.7	15.3 [4.5] 1.7	15.1 [4.4] 1.7	14.5 [4.2] 1.9	14.5 [4.2] 1.9	14.3 [4.2] 2.0
	30 [-1.1]	Total kBtu/h [kW] Power	17.7 [5.2] 1.5	17.7 [5.2] 1.5	17.4 [5.1] 1.6	16.9 [5.0] 1.7	16.9 [5.0] 1.7	16.7 [4.9] 1.8	16.1 [4.7] 2.0	16.1 [4.7] 2.0	15.9 [4.7] 2.0
	35 [1.7]	Total kBtu/h [kW] Power	19.3 [5.7] 1.6	19.2 [5.6] 1.6	19.0 [5.6] 1.6	18.5 [5.4] 1.8	18.5 [5.4] 1.8	18.2 [5.3] 1.8	17.7 [5.2] 2.0	17.7 [5.2] 2.0	17.4 [5.1] 2.1
	40 [4.4]	Total kBtu/h [kW] Power	20.9 [6.1] 1.6	20.8 [6.1] 1.6	20.6 [6] 1.7	20.1 [5.9] 1.9	20.0 [5.9] 1.9	19.8 [5.8] 1.9	19.3 [5.7] 2.1	19.3 [5.7] 2.1	19.0 [5.6] 2.1
	45 [7.2]	Total kBtu/h [kW] Power	22.5 [6.6] 1.7	22.4 [6.6] 1.7	22.1 [6.5] 1.7	21.7 [6.4] 1.9	21.6 [6.3] 1.9	21.3 [6.2] 2.0	20.9 [6.1] 2.1	20.8 [6.1] 2.1	20.6 [6.0] 2.2
50 [10]	Total kBtu/h [kW] Power	24.1 [7.1] 1.8	24.0 [7.0] 1.8	23.7 [6.9] 1.8	23.3 [6.8] 2.0	23.2 [6.8] 2.0	22.9 [6.7] 2.1	22.5 [6.6] 2.2	22.4 [6.6] 2.2	22.1 [6.5] 2.3	

IDB —Indoor air dry bulb

HEATING PERFORMANCE DATA—RHPBYC036

IDB			60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			1300 [614]	1300 [614]	1000 [472]	1300 [614]	1300 [614]	1000 [472]	1300 [614]	1300 [614]	1000 [472]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	11.7 [3.4] 2.0	11.7 [3.4] 2.0	11.5 [3.4] 2.0	10.8 [3.2] 2.2	10.8 [3.2] 2.2	10.6 [3.1] 2.3	9.8 [2.9] 2.5	9.8 [2.9] 2.5	9.6 [2.8] 2.6
	5 [-15]	Total kBtu/h [kW] Power	14.3 [4.2] 2.0	14.3 [4.2] 2.0	14.0 [4.1] 2.1	13.3 [3.9] 2.3	13.3 [3.9] 2.3	13.1 [3.8] 2.3	12.3 [3.6] 2.6	12.3 [3.6] 2.6	12.1 [3.5] 2.6
	10 [-12.2]	Total kBtu/h [kW] Power	16.8 [4.9] 2.1	16.8 [4.9] 2.1	16.5 [4.8] 2.1	15.8 [4.6] 2.3	15.8 [4.6] 2.3	15.5 [4.5] 2.4	14.8 [4.3] 2.6	14.8 [4.3] 2.6	14.6 [4.3] 2.7
	15 [-9.4]	Total kBtu/h [kW] Power	19.3 [5.7] 2.1	19.3 [5.7] 2.1	19.0 [5.6] 2.2	18.3 [5.4] 2.4	18.3 [5.4] 2.4	18.0 [5.3] 2.5	17.3 [5.1] 2.7	17.3 [5.1] 2.7	17.1 [5.0] 2.8
	20 [-6.7]	Total kBtu/h [kW] Power	21.8 [6.4] 2.2	21.8 [6.4] 2.2	21.5 [6.3] 2.3	20.8 [6.1] 2.5	20.8 [6.1] 2.5	20.5 [6.0] 2.5	19.9 [5.8] 2.8	19.9 [5.8] 2.8	19.5 [5.7] 2.8
	25 [-3.9]	Total kBtu/h [kW] Power	24.3 [7.1] 2.3	24.3 [7.1] 2.3	23.9 [7.0] 2.3	23.4 [6.9] 2.5	23.4 [6.9] 2.5	23.0 [6.7] 2.6	22.4 [6.6] 2.8	22.4 [6.6] 2.8	22.0 [6.4] 2.9
	30 [-1.1]	Total kBtu/h [kW] Power	26.9 [7.9] 2.3	26.9 [7.9] 2.3	26.4 [7.7] 2.4	25.9 [7.6] 2.6	25.9 [7.6] 2.6	25.5 [7.5] 2.6	24.9 [7.3] 2.9	24.9 [7.3] 2.9	24.5 [7.2] 3.0
	35 [1.7]	Total kBtu/h [kW] Power	29.4 [8.6] 2.4	29.4 [8.6] 2.4	28.9 [8.5] 2.4	28.4 [8.3] 2.6	28.4 [8.3] 2.6	27.9 [8.2] 2.7	27.4 [8.0] 2.9	27.4 [8.0] 2.9	27.0 [7.9] 3.0
	40 [4.4]	Total kBtu/h [kW] Power	31.9 [9.3] 2.4	31.9 [9.3] 2.4	31.4 [9.2] 2.5	30.9 [9.1] 2.7	30.9 [9.1] 2.7	30.4 [8.9] 2.8	29.9 [8.8] 3.0	29.9 [8.8] 3.0	29.5 [8.6] 3.1
	45 [7.2]	Total kBtu/h [kW] Power	34.4 [10.1] 2.5	34.4 [10.1] 2.5	33.9 [9.9] 2.6	33.4 [9.8] 2.8	33.4 [9.8] 2.8	32.9 [9.6] 2.8	32.5 [9.5] 3.1	32.5 [9.5] 3.1	31.9 [9.3] 3.1
50 [10]	Total kBtu/h [kW] Power	36.9 [10.8] 2.6	36.9 [10.8] 2.6	36.3 [10.6] 2.6	36.0 [10.6] 2.8	36.0 [10.6] 2.8	35.4 [10.4] 2.9	35.0 [10.3] 3.1	35.0 [10.3] 3.1	34.4 [10.1] 3.2	

IDB —Indoor air dry bulb

[] Designates Metric Conversions

HEATING PERFORMANCE DATA—RHPBYC048

IDB			60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			1700 [802]	1600 [755]	1325 [625]	1700 [802]	1600 [755]	1325 [625]	1700 [802]	1600 [755]	1325 [625]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	17.1 [5.0] 2.6	16.9 [5.0] 2.7	16.8 [4.9] 2.7	15.6 [4.6] 2.9	15.4 [4.5] 3.0	15.3 [4.5] 3.0	14.0 [4.1] 3.3	13.8 [4.0] 3.4	13.8 [4.0] 3.4
	5 [-15]	Total kBtu/h [kW] Power	20.4 [6.0] 2.7	20.1 [5.9] 2.8	20.0 [5.9] 2.8	18.8 [5.5] 3.0	18.6 [5.5] 3.1	18.5 [5.4] 3.1	17.3 [5.1] 3.4	17.1 [5.0] 3.5	17.0 [5.0] 3.5
	10 [-12.2]	Total kBtu/h [kW] Power	23.6 [6.9] 2.8	23.3 [6.8] 2.9	23.2 [6.8] 2.9	22.1 [6.5] 3.1	21.8 [6.4] 3.2	21.7 [6.4] 3.2	20.6 [6.0] 3.5	20.3 [5.9] 3.6	20.2 [5.9] 3.6
	15 [-9.4]	Total kBtu/h [kW] Power	26.9 [7.9] 2.9	26.5 [7.8] 3.0	26.4 [7.7] 3.0	25.4 [7.4] 3.2	25.0 [7.3] 3.3	24.9 [7.3] 3.3	23.8 [7.0] 3.6	23.5 [6.9] 3.7	23.4 [6.9] 3.8
	20 [-6.7]	Total kBtu/h [kW] Power	30.2 [8.9] 3.0	29.7 [8.7] 3.1	29.6 [8.7] 3.1	28.6 [8.4] 3.3	28.2 [8.3] 3.4	28.1 [8.2] 3.4	27.1 [7.9] 3.7	26.7 [7.8] 3.8	26.6 [7.8] 3.9
	25 [-3.9]	Total kBtu/h [kW] Power	33.4 [9.8] 3.1	33.0 [9.7] 3.2	32.8 [9.6] 3.2	31.9 [9.3] 3.4	31.5 [9.2] 3.5	31.3 [9.2] 3.5	30.4 [8.9] 3.8	30.0 [8.8] 3.9	29.8 [8.7] 4.0
	30 [-1.1]	Total kBtu/h [kW] Power	36.7 [10.8] 3.2	36.2 [10.6] 3.3	36.0 [10.6] 3.3	35.2 [10.3] 3.5	34.7 [10.2] 3.6	34.5 [10.1] 3.6	33.6 [9.8] 3.9	33.2 [9.7] 4.0	33.0 [9.7] 4.1
	35 [1.7]	Total kBtu/h [kW] Power	40.0 [11.7] 3.3	39.4 [11.5] 3.4	39.2 [11.5] 3.5	38.4 [11.3] 3.6	37.9 [11.1] 3.7	37.7 [11.0] 3.7	36.9 [10.8] 4	36.4 [10.7] 4.1	36.2 [10.6] 4.2
	40 [4.4]	Total kBtu/h [kW] Power	43.2 [12.7] 3.4	42.6 [12.5] 3.5	42.4 [12.4] 3.6	41.7 [12.2] 3.7	41.1 [12.0] 3.8	40.9 [12.0] 3.8	40.2 [11.8] 4.1	39.6 [11.6] 4.2	39.4 [11.5] 4.3
	45 [7.2]	Total kBtu/h [kW] Power	46.5 [13.6] 3.5	45.9 [13.5] 3.6	45.6 [13.4] 3.7	45.0 [13.2] 3.8	44.3 [13.0] 3.9	44.1 [12.9] 3.9	43.4 [12.7] 4.2	42.8 [12.5] 4.3	42.6 [12.5] 4.4
	50 [10]	Total kBtu/h [kW] Power	49.7 [14.6] 3.6	49.1 [14.4] 3.7	48.8 [14.3] 3.8	48.2 [14.1] 3.9	47.6 [14.0] 4.0	47.3 [13.9] 4.0	46.7 [13.7] 4.3	46.1 [13.5] 4.4	45.8 [13.4] 4.5

IDB —Indoor air dry bulb

HEATING PERFORMANCE DATA—RHPBYC060

IDB			60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
CFM [L/s]			2175 [1026]	1875 [885]	1675 [791]	2175 [1026]	1875 [885]	1675 [791]	2175 [1026]	1875 [885]	1675 [791]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total kBtu/h [kW] Power	23.6 [6.9] 3.4	23.3 [6.8] 3.5	23.1 [6.8] 3.5	21.9 [6.4] 3.8	21.7 [6.4] 3.9	21.5 [6.3] 3.9	20.3 [5.9] 4.3	20.0 [5.9] 4.3	19.9 [5.8] 4.4
	5 [-15]	Total kBtu/h [kW] Power	27.5 [8.1] 3.5	27.2 [8.0] 3.6	27.0 [7.9] 3.6	25.8 [7.6] 3.9	25.5 [7.5] 4.0	25.3 [7.4] 4.0	24.1 [7.1] 4.3	23.9 [7.0] 4.4	23.7 [6.9] 4.5
	10 [-12.2]	Total kBtu/h [kW] Power	31.3 [9.2] 3.6	31.0 [9.1] 3.7	30.8 [9.0] 3.7	29.7 [8.7] 4.0	29.3 [8.6] 4.1	29.1 [8.5] 4.1	28.0 [8.2] 4.4	27.7 [8.1] 4.5	27.5 [8.1] 4.6
	15 [-9.4]	Total kBtu/h [kW] Power	35.2 [10.3] 3.7	34.8 [10.2] 3.8	34.6 [10.1] 3.8	33.6 [9.8] 4.1	33.2 [9.7] 4.2	32.9 [9.6] 4.2	31.9 [9.3] 4.5	31.5 [9.2] 4.6	31.3 [9.2] 4.7
	20 [-6.7]	Total kBtu/h [kW] Power	39.1 [11.5] 3.8	38.7 [11.3] 3.9	38.4 [11.3] 3.9	37.4 [11.0] 4.2	37.0 [10.8] 4.3	36.7 [10.8] 4.3	35.8 [10.5] 4.6	35.4 [10.4] 4.7	35.1 [10.3] 4.8
	25 [-3.9]	Total kBtu/h [kW] Power	43.0 [12.6] 3.9	42.5 [12.5] 3.9	42.2 [12.4] 4.0	41.3 [12.1] 4.3	40.9 [12.0] 4.4	40.5 [11.9] 4.4	39.7 [11.6] 4.7	39.2 [11.5] 4.8	38.9 [11.4] 4.9
	30 [-1.1]	Total kBtu/h [kW] Power	46.9 [13.7] 4.0	46.3 [13.6] 4.0	46.0 [13.5] 4.1	45.2 [13.2] 4.4	44.7 [13.1] 4.4	44.4 [13.0] 4.5	43.5 [12.7] 4.8	43.0 [12.6] 4.9	42.7 [12.5] 5.0
	35 [1.7]	Total kBtu/h [kW] Power	50.8 [14.9] 4.0	50.2 [14.7] 4.1	49.8 [14.6] 4.2	49.1 [14.4] 4.4	48.5 [14.2] 4.5	48.2 [14.1] 4.6	47.4 [13.9] 4.9	46.9 [13.7] 5.0	46.5 [13.6] 5.1
	40 [4.4]	Total kBtu/h [kW] Power	54.6 [16.0] 4.1	54.0 [15.8] 4.2	53.6 [15.7] 4.3	53.0 [15.5] 4.5	52.4 [15.4] 4.6	52.0 [15.2] 4.7	51.3 [15.0] 5.0	50.7 [14.9] 5.1	50.3 [14.7] 5.1
	45 [7.2]	Total kBtu/h [kW] Power	58.5 [17.1] 4.2	57.9 [17.0] 4.3	57.4 [16.8] 4.4	56.8 [16.6] 4.6	56.2 [16.5] 4.7	55.8 [16.4] 4.8	55.2 [16.2] 5.1	54.6 [16.0] 5.2	54.1 [15.9] 5.2
	50 [10]	Total kBtu/h [kW] Power	62.4 [18.3] 4.3	61.7 [18.1] 4.4	61.2 [17.9] 4.5	60.7 [17.8] 4.7	60.0 [17.6] 4.8	59.6 [17.5] 4.9	59.1 [17.3] 5.2	58.4 [17.1] 5.3	57.9 [17.0] 5.3

IDB —Indoor air dry bulb

[] Designates Metric Conversions

INDOOR AIRFLOW PERFORMANCE — RHPBYC — 208/230V

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory			Manufacturer Recommended Cooling Airflow (Min/Max) [Tap 2 Only]	Blower Size, Motor HP [W] & # of Speeds	Motor Speed/Tap	External Static Pressure - Inches W.C. [kPa] (Side Discharge-Dry Coil)											
	Hi-Cool	Low-Cool	Heat				0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]	0.9 [.22]	1.0 [.25]		
2.0 [7.03]	Tap 3	Tap 2	Tap 1	700 CFM/ 900 CFM	12x9 Blower 1/2 HP [372] 3 Speed (Constant Torque)	Tap 1 - Electric Heat / Fan-Only	CFM	911	713	638	500	410	309	284	233	—	—	
							RPM	384	444	517	626	678	723	753	807	—	—	
							Watts	59	54	62	75	81	86	89	96	—	—	
						Tap 2 - Low	CFM	807	603	469	343	265	167	—	—	—	—	—
							RPM	385	435	523	600	651	717	—	—	—	—	—
							Watts	50	43	50	57	61	66	—	—	—	—	—
3.0 [10.55]	Tap 3	Tap 2	Tap 1	1050 CFM/ 1350 CFM	12x9 Blower 3/4 HP [559] 3 Speed (Constant Torque)	Tap 3 - High*	CFM	1152	1103	1040	975	901	809	725	637	587	458	
							RPM	441	487	551	608	667	741	806	858	893	938	
							Watts	102	110	122	133	144	158	171	180	186	195	
						Tap 1 - Electric Heat / Fan-Only	CFM	1299	1236	1179	1132	1077	1022	946	887	774	705	
							RPM	459	509	562	610	663	714	776	843	911	955	
							Watts	124	135	146	157	170	180	193	209	224	235	
4.0 [14.07]	Tap 3	Tap 2	Tap 1	1400 CFM/ 1800 CFM	12x9 Blower 3/4 HP [559] 3 Speed (Constant Torque)	Tap 2 - Low	CFM	1024	948	891	823	708	579	495	431	374	342	
							RPM	400	468	526	588	673	754	805	831	866	922	
							Watts	75	83	93	102	115	128	136	140	145	151	
						Tap 3 - High*	CFM	1596	1554	1503	1455	1409	1368	1325	1279	1245	1190	
							RPM	529	569	614	656	701	738	788	835	866	913	
							Watts	207	219	235	248	262	274	291	306	317	332	
5.0 [17.59]	Tap 3	Tap 2	Tap 1	1750 CFM/ 2250 CFM	12x9 Blower 1 HP [746] 3 Speed (Constant Torque)	Tap 1 - Electric Heat / Fan-Only	CFM	1822	1779	1735	1698	1658	1619	1576	1538	1487	1447	
							RPM	628	662	702	732	768	802	840	877	923	961	
							Watts	317	332	349	360	375	389	403	419	438	454	
						Tap 2 - Low	CFM	1199	1143	1080	1020	959	896	814	736	660	575	
							RPM	467	516	569	628	679	735	799	856	906	942	
							Watts	110	121	131	143	152	164	176	187	196	203	
5.0 [17.59]	Tap 3	Tap 2	Tap 1	1750 CFM/ 2250 CFM	12x9 Blower 1 HP [746] 3 Speed (Constant Torque)	Tap 3 - High*	CFM	1724	1682	1633	1593	1549	1503	1464	1419	1370	1331	
							RPM	596	631	668	705	745	786	823	867	910	949	
							Watts	269	282	296	309	323	339	354	371	385	401	
						Tap 1 - Electric Heat / Fan-Only	CFM	1526	1481	1429	1383	1334	1285	1235	1175	1114	1089	
							RPM	540	580	623	666	710	758	809	857	907	945	
							Watts	197	208	222	233	245	255	275	291	305	319	
5.0 [17.59]	Tap 3	Tap 2	Tap 1	1750 CFM/ 2250 CFM	12x9 Blower 1 HP [746] 3 Speed (Constant Torque)	Tap 2 - Low	CFM	1402	1345	1298	1242	1195	1139	1077	1012	933	859	
							RPM	499	548	593	647	694	743	800	851	905	952	
							Watts	155	168	180	193	205	218	233	246	259	269	
						Tap 3 - High*	CFM	2142	2113	2072	2031	1990	1959	1921	1891	1860	1836	
							RPM	696	723	755	786	820	847	882	913	946	981	
							Watts	496	515	537	549	569	582	603	620	639	664	

NOTES: (1) * Use motor tap 2 to achieve rated airflow at AHRI minimum external static pressure.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)				
CFM [L/s]	800 [378]	1000 [472]	1200 [566]	1400 [661]
Pressure Drop—Includes W.C. [kPa]	.02 [.005]	.05 [.012]	.07 [.017]	.1 [.025]
			.15 [.037]	.17 [.042]

[] Designates Metric Conversions

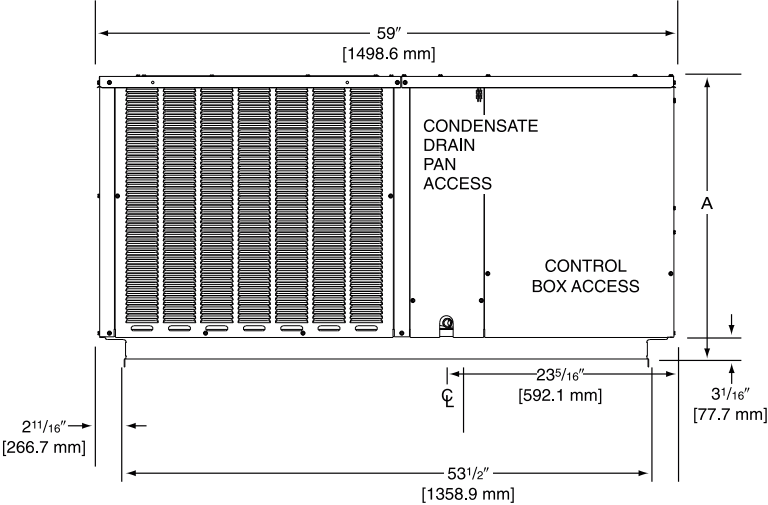
ELECTRICAL DATA - RHPBYC SERIES					
		024AJT	036AJT	048AJT	060AJT
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253
	Volts	208/230	208/230	208/230	208/230
	Phase	1	1	1	1
	Hz	60	60	60	60
	Minimum Circuit Ampacity	23	29	37	45
	Minimum Overcurrent Protection	30	40	50	60
	Maximum Overcurrent Protection	30	40	50	60
Compressor Motor	No.	1	1	1	1
	Volts	208/230	208/230	208/230	208/230
	Phase	1	1	1	1
	Amps (RLA), Comp. 1	11.9	14.9	20.1	25.2
	Amps (LRA), Comp. 1	65	90	141	147.3
	Amps (RLA), Comp. 2	N/A	N/A	N/A	N/A
	Amps (LRA), Comp. 2	N/A	N/A	N/A	N/A
Condenser Motor	No.	1	1	1	1
	Volts	208-230	208-230	208-230	208-230
	Phase	1	1	1	1
	HP	1/3	1/3	1/2	1/2
	Amps (FLA, each)	3.6	3.6	5.3	5.3
	Amps (LRA, each)	0	0	0	0
Evaporator Fan	No.	1	1	1	1
	Volts	208/230	208/230	208/230	208/230
	Phase	1	1	1	1
	HP	1/2	3/4	3/4	1
	Amps (FLA, each)	4.1	6	6	7.6
	Amps (LRA, each)	0	0	0	0

208/230 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						
Model Number	Heater Kit				Air Conditioner			Heater Kit			Air Conditioner		
	RXQJ-Heater Kit Nominal kW	Rated Heater kW @ Rated Voltage	Heater MBH @ Rated Voltage	Heater Amp. @ Rated Voltage	Unit Min. Ckt. Ampacity @ Rated Voltage	Overcurrent Protective Device		Min. Ckt. Ampacity @ Rated Voltage	Max. Fuse Size @ Rated Voltage	Min. Circuit Ampacity @ Rated Voltage	Overcurrent Protective Device		
						Min./Max. @ Min Voltage	Min./Max. @ Max Voltage				Min./Max. @ Min Voltage	Min./Max. @ Max Voltage	
RHPBYC024AJT	NONE*	—/—	—/—	—/—	23/23	30/30	30/30	—/—	—/—	23/23	30/30	30/30	
	C05J	3.6/4.8	12.28/16.38	17.3/20.0	27/31	30/30	35/35	22/25	25/25	23/23	30/30	30/30	
	C07J	5.4/7.2	18.42/24.56	26.0/30.0	38/43	40/40	45/45	33/38	35/40	23/23	30/30	30/30	
	C10J	7.2/9.6	24.56/32.75	34.6/40.0	49/56	50/50	60/60	44/50	45/50	23/23	30/30	30/30	
RHPBYC036AJT	NONE*	—/—	—/—	—/—	29/29	35/40	35/40	—/—	—/—	29/29	35/40	35/40	
	C05J	3.6/4.8	12.28/16.38	17.3/20.0	30/33	35/40	35/40	22/25	25/25	29/29	35/40	35/40	
	C07J	5.4/7.2	18.42/24.56	26.0/30.0	40/45	40/40	45/45	33/38	35/40	29/29	35/40	35/40	
	C10J	7.2/9.6	24.56/32.75	34.6/40.0	51/58	60/60	60/60	44/50	45/50	29/29	35/40	35/40	
	C15J	10.8/14.4	36.84/49.13	51.9/60.0	73/83	80/80	90/90	65/75	70/80	29/29	35/40	35/40	
RHPBYC048AJT	NONE*	—/—	—/—	—/—	37/37	45/50	45/50	—/—	—/—	37/37	45/50	45/50	
	C05J	3.6/4.8	12.28/16.38	17.3/20.0	37/37	45/50	45/50	22/25	25/25	37/37	45/50	45/50	
	C07J	5.4/7.2	18.42/24.56	26.0/30.0	40/45	45/50	45/50	33/38	35/40	37/37	45/50	45/50	
	C10J	7.2/9.6	24.56/32.75	34.6/40.0	51/58	60/60	60/60	44/50	45/50	37/37	45/50	45/50	
	C15J	10.8/14.4	36.84/49.13	51.9/60.0	73/83	80/80	90/90	65/75	70/80	37/37	45/50	45/50	
	C20J	14.4/19.2	49.13/65.50	69.3/80.0	95/108	100/100	110/110	87/100	90/100	37/37	45/50	45/50	
RHPBYC060AJT	NONE*	—/—	—/—	—/—	45/45	60/60	60/60	—/—	—/—	45/45	60/60	60/60	
	C05J	3.6/4.8	12.28/16.38	17.3/20.0	45/45	60/60	60/60	22/25	25/25	45/45	60/60	60/60	
	C07J	5.4/7.2	18.42/24.56	26.0/30.0	45/47	60/60	60/60	33/38	35/40	45/45	60/60	60/60	
	C10J	7.2/9.6	24.56/32.75	34.6/40.0	53/60	60/60	60/60	44/50	45/50	45/45	60/60	60/60	
	C15J	10.8/14.4	36.84/49.13	51.9/60.0	75/85	80/80	90/90	65/75	70/80	45/45	60/60	60/60	
	C20J	14.4/19.2	49.13/65.50	69.3/80.0	97/110	100/100	110/110	87/100	90/100	45/45	60/60	60/60	

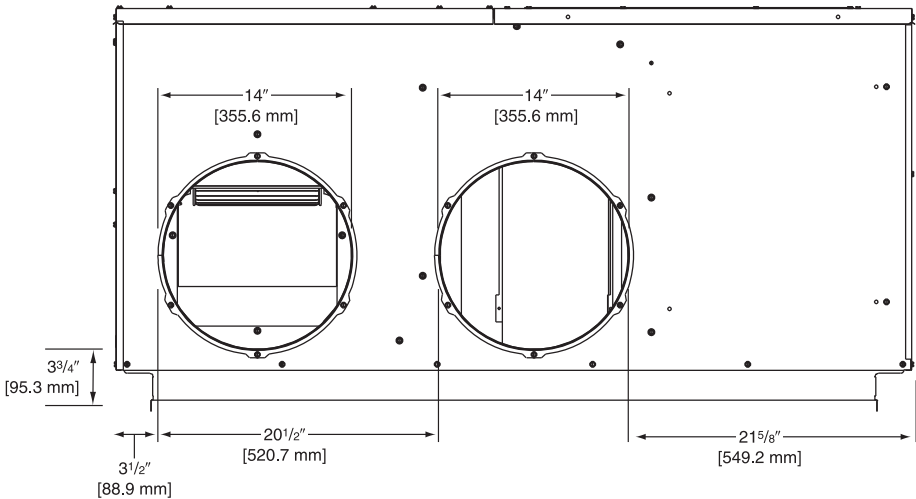
DIMENSIONS

Model	Height "A"
24, 36, 48, 60	37 1/8"

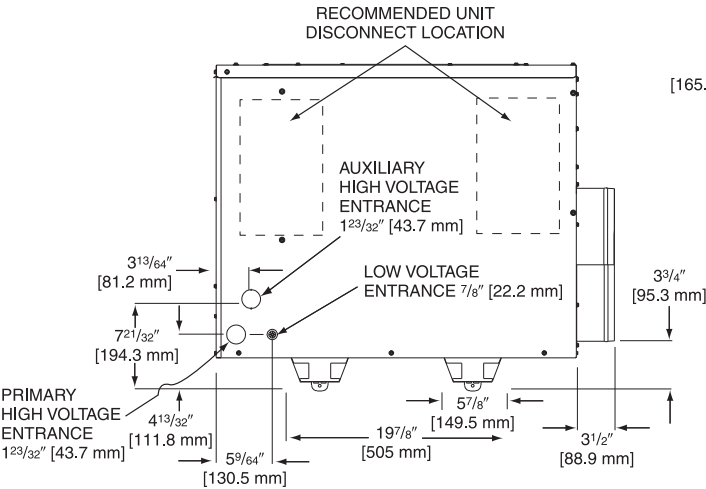
FRONT VIEW



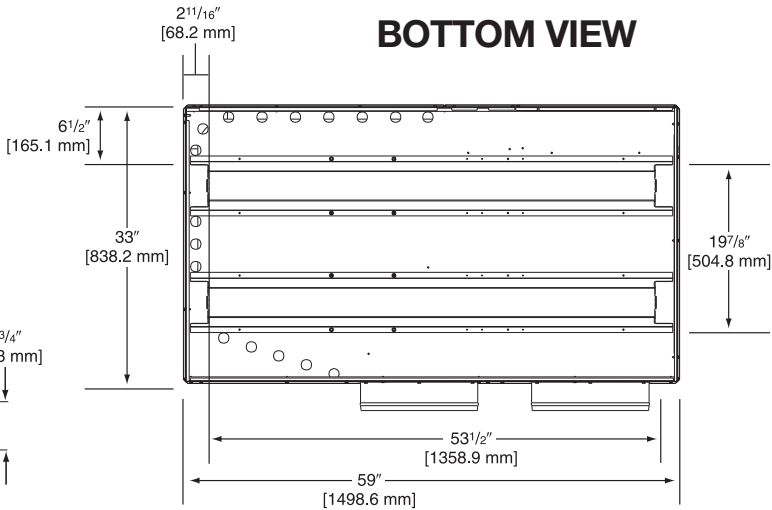
REAR VIEW



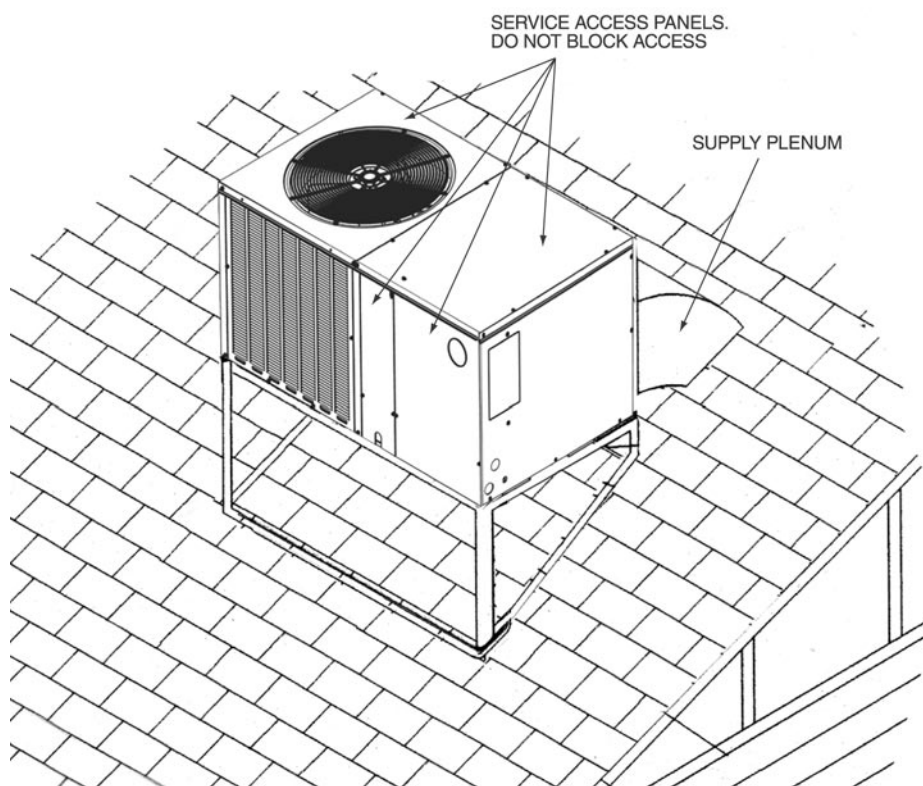
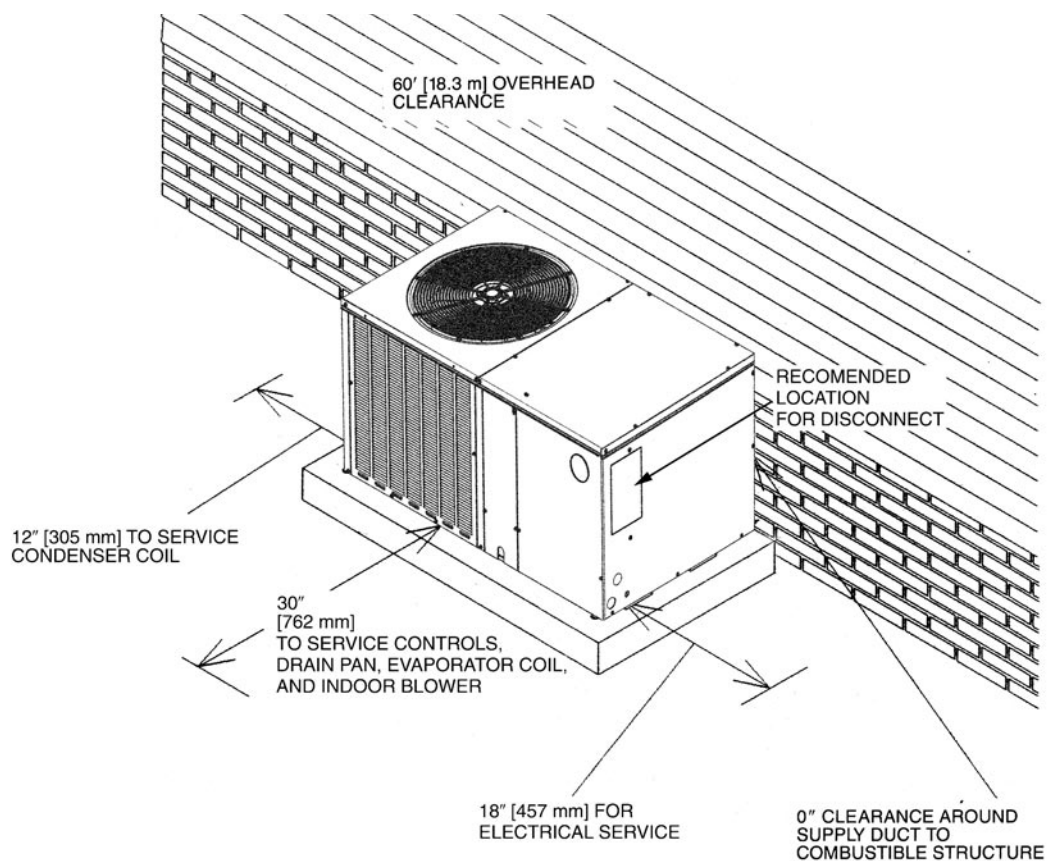
ELECTRICAL CONNECTIONS



BOTTOM VIEW



[] Designates Metric Conversions



[] Designates Metric Conversions



GENERAL TERMS OF LIMITED WARRANTY*

Russell® By 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 and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Parts

Residential Applications
(Registration Required)Ten (10) Years
Commercial ApplicationsOne (1) Year

Compressor

1 Phase, Residential Applications.....Ten (10) Years
1 & 3 Phase, Commercial ApplicationsFive (5) Years

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.

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

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