



13 SEER CONDENSING UNITS

Features

- Painted louvered steel cabinet.
- Easily accessible control box.
- Condenser coils constructed with copper tubing and enhanced aluminum fins.
- Grille/Motor mount for quiet fan operation.
- Units shipped without refrigerant and have a nitrogen holding charge.

Applications

Outdoor condensing unit designed for ground level or rooftop installations. These units offer comfort and dependability for single, multi-family and light commercial applications. For condensing unit replacement only.

Accessories

- Low Pressure Control (RXAC-A03)
- High Pressure Control (RXAB-A03)
- Low Ambient Control (RXAD-A04)
- Compressor Time Delay Control
- Crankcase Heater
- Sound Enclosure
- Filter Drier

13A*A SERIES

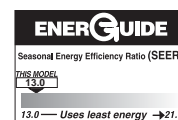
*J, C, D

IMPORTANT:

This product is shipped with a nitrogen holding charge that must be vented prior to evacuation and charging.

This product is only intended for condensing change-out in existing R-22 systems. New R-22 system installations are prohibited by EPA.

This product must be charged with R-22 refrigerant meeting AHRI 700 purity standard.



Model Number Identification

13	A	J	A	18	C	01
13 SEER	A = AIR CONDITIONER	<u>VOLTAGE</u>	<u>DESIGN SERIES</u>	<u>NOMINAL COOLING CAPACITY</u>	<u>CABINET</u>	<u>RHEEM VALUE SERIES</u>
		J = 208-230V SINGLE PHASE	A = 1ST DESIGN	18 = 18,000 BTU/HR [5.28 kW] 24 = 24,000 BTU/HR [7.03 kW] 30 = 30,000 BTU/HR [8.79 kW] 36 = 36,000 BTU/HR [10.55 kW] 42 = 42,000 BTU/HR [12.31 kW] 48 = 48,000 BTU/HR [14.07 kW] 60 = 60,000 BTU/HR [17.58 kW]	C = MINOR DESIGN SERIES	
		C = 208-230V THREE PHASE				
		D = 460V THREE PHASE				

Performance Data @ AHRI Standard Conditions—Cooling

Model Numbers		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
Outdoor Unit 13A*A	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
18	RCFA-H*2417A* ①	18,300 [5.4]	13,000 [3.8]	5,300 [1.6]	11.70	13.00	76	600 [283]
24	RCFA-H*2417A* ①	23,400 [6.9]	16,350 [4.8]	7,050 [2.1]	11.55	13.00	74	800 [378]
30	RCFA-H*3617A* ①	28,600 [8.4]	20,100 [5.9]	8,500 [2.5]	11.50	13.00	73	1,000 [472]
36	RCFA-H*3617A* ①	34,400 [10.1]	25,100 [7.4]	9,300 [2.7]	11.75	13.00	76	1,175 [554]
42	RCFA-H*4821A* ①	40,500 [11.9]	29,000 [8.5]	11,500 [3.4]	11.15	13.00	76	1,400 [661]
48	RCFA-H*4821A* ①	46,000 [13.5]	33,300 [9.8]	12,700 [3.7]	11.65	13.00	77	1,575 [743]
60	RCFA-H*6024A* ①	57,000 [16.7]	39,400 [11.5]	17,600 [5.2]	11.10	13.00	77	1,725 [814]

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Electrical and Physical Data

Model Number 13AJA	ELECTRICAL							PHYSICAL						
	Phase Frequency [Hz] Voltage [Volts]	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrigerant Per Circuit* Oz. [g]	Weight		
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [m ²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]	
18	1-60-208/230	7.7/7.7	40.3	1.0	11/11	15/15	15/15	8.43 [0.78]	1	1900 [897]	67 [1899]	150 [68.0]	158 [71.7]	
24	1-60-208/230	10.4/10.4	54	0.6	14/14	20/20	20/20	11.06 [1.03]	1	1700 [802]	77 [2183]	155 [70.3]	163 [73.9]	
30	1-60-208/230	14.1/14.1	68	0.8	19/19	25/25	30/30	13.72 [1.27]	1	2325 [1097]	98 [2778]	175 [79.4]	185 [83.9]	
36	1-60-208/230	14.4/14.4	78	0.8	19/19	25/25	30/30	16.39 [1.52]	1	2800 [1321]	108 [3062]	200 [90.7]	212 [96.2]	
42	1-60-208/230	19.2/19.2	105	0.8	25/25	30/30	40/40	16.39 [1.52]	1	2800 [1321]	121 [3430]	205 [93.0]	217 [98.4]	
48	1-60-208/230	21.1/21.1	115	1.2	28/28	35/35	45/45	16.39 [1.52]	1	3300 [1557]	123 [3487]	210 [95.3]	222 [100.7]	
60	1-60-208/230	25.3/25.3	150	1.2	33/33	40/40	50/50	21.85 [2.03]	1	3575 [1687]	191 [5415]	247 [112]	258 [117]	

Model Number 13ACA	ELECTRICAL							PHYSICAL						
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrigerant Per Circuit* Oz. [g]	Weight		
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [m ²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]	
36	3-60-208/230	10.3	88	0.8	14/14	20/20	20/20	11.06 [1.03]	1	2800 [1321]	108 [3062]	184.5 [83.7]	196.5 [89.1]	
42	3-60-208/230	13.5	89	0.8	18/18	25/25	30/30	13.72 [1.27]	1	2800 [1321]	121 [3430]	178.5 [80.9]	190.5 [86.4]	
48	3-60-208/230	14.1	95	1.2	19/19	25/25	30/30	16.39 [1.52]	1	3300 [1557]	123 [3487]	184 [83.5]	196 [88.9]	
60	3-60-208/230	17.3	123	1.2	23/23	30/30	40/40	21.85 [2.03]	1	3575 [1687]	191 [5415]	228.5 [103.6]	239.5 [108.6]	

Model Number 13ADA	ELECTRICAL							PHYSICAL						
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrigerant Per Circuit* Oz. [g]	Weight		
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [m ²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]	
36	3-60-460	5.8	45	0.4	8	15	15	21.85 [2.03]	2	2800 [1321]	108 [3062]	194 [88.0]	206 [93.4]	
42	3-60-460	6.4	45	0.4	9	15	15	21.85 [2.03]	2	2800 [1321]	121 [3430]	184 [83.5]	196 [88.9]	
48	3-60-460	7.1	45	0.6	10	15	15	21.85 [2.03]	2	3300 [1557]	123 [3487]	188 [85.3]	200 [90.7]	
60	3-60-460	8.4	70	0.6	12	15	15	21.85 [2.03]	2	3575 [1687]	191 [5415]	241 [109.3]	252 [114.3]	

NOTE: Refrigerant charge shown is for 15 feet of standard line set. Units are shipped with a nitrogen holding charge and must be charged with R-22 in the field.

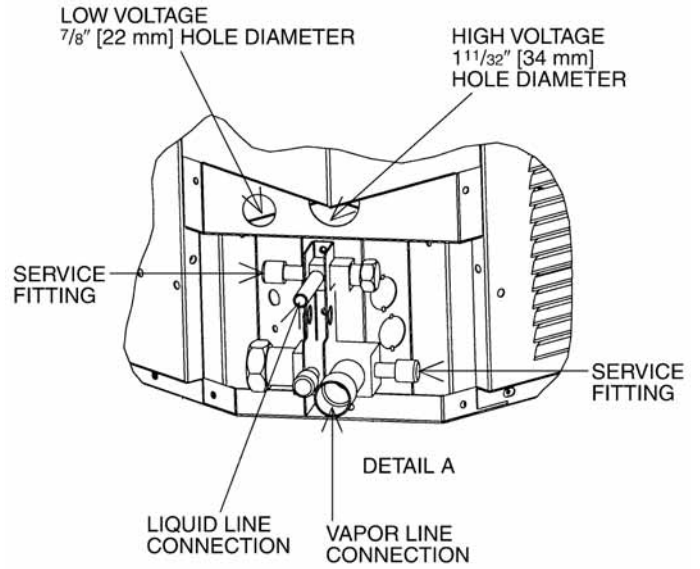
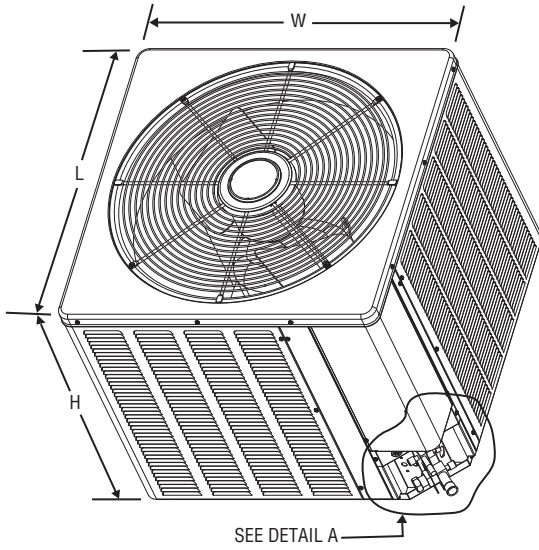
[] Designates Metric Conversions

Unit Dimensions

Model No. 13A*A	Unit Dimensions		
	Width "W" Inches	Length "L" Inches	Height "H" Inches
18, 24	23 ⁵ / ₈ [600]	23 ⁵ / ₈ [600]	24 ¹ / ₄ [616]
30	27 ⁵ / ₈ [702]	27 ⁵ / ₈ [702]	24 ¹ / ₄ [616]
36, 42, 48	31 ⁵ / ₈ [803]	31 ⁵ / ₈ [803]	27 ¹⁵ / ₁₆ [710]
60	31 ⁵ / ₈ [803]	31 ⁵ / ₈ [803]	35 ¹⁵ / ₁₆ [913]

*J, C, or D

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Condensing Unit Refrigerant Line Size Information

System Capacity	Liquid Line Connection Size (Inch I.D.)	Line Size (Inch O.D.) [mm]	Liquid Line Size – Outdoor Unit Above Indoor Coil (Cooling Only—Does not apply to Heat Pumps)						Liquid Line Size – Outdoor Unit Below Indoor Coil (Cooling Only)					
			Total Equivalent Length—Feet [m]						Total Equivalent Length—Feet [m]					
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]
			Minimum Vertical Separation—Feet [m]						Maximum Vertical Separation—Feet [m]					
1 1/2 Ton	3/8" [9.53]	1/4 [6.35]	0 ⊕	0 ⊕	5 [1.52]	18 [5.49]	31 [9.45]	44 [13.41]	21 [6.40]	8 [2.44]	N/A	N/A	N/A	N/A
		5/16 [7.94]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	27 [8.23]	24 [7.32]	21 [6.40]	17 [5.18]	14 [4.27]
		3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	40 [12.19]	39 [11.89]	38 [11.58]	37 [11.28]	35 [10.67]
2 Ton	3/8" [9.53]	1/4 [6.35]	0 ⊕	5 [1.52]	27 [8.23]	48 [14.63]	69 [21.03]	91 [27.74]	16 [4.88]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	26 [7.92]	21 [6.40]	15 [4.57]	10 [3.05]	5 [1.52]
		3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	38 [11.58]	36 [10.97]	35 [10.67]	33 [10.06]	31 [9.45]
2 1/2 Ton	3/8" [9.53]	1/4 [6.35]	0 ⊕	34 [10.36]	69 [21.03]	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	9 [2.74]	18 [5.49]	25 [7.62]	17 [5.18]	8 [2.44]	0	N/A	N/A
		3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	37 [11.28]	34 [10.36]	31 [9.45]	29 [8.84]	26 [7.92]
3 Ton	3/8" [9.53]	5/16 [7.94]	0 ⊕	0 ⊕	0 ⊕	6 [1.83]	17 [5.18]	28 [8.53]	25 [7.62]	15 [4.57]	4 [1.22]	N/A	N/A	N/A
		3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	30 [9.14]	26 [7.92]	23 [7.01]	19 [5.79]	16 [4.88]
3 1/2 Ton	3/8" [9.53]	5/16 [7.94]	0 ⊕	0 ⊕	0 ⊕	13 [3.96]	28 [8.53]	43 [13.11]	25 [7.62]	17 [5.18]	2 [0.61]	N/A	N/A	N/A
		3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	37 [11.28]	32 [9.75]	28 [8.53]	23 [7.01]	18 [5.49]
4 Ton	3/8" [9.53]	3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	33 [10.06]	27 [8.23]	21 [6.40]	15 [4.57]	9 [2.74]
		1/2 [12.57]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	43 [13.11]	42 [12.80]	40 [12.19]	39 [11.89]	38 [11.58]
5 Ton	3/8" [9.53]	3/8* [9.53]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	9 [2.74]	25 [7.62]	25 [7.62]	17 [5.18]	8 [2.44]	0	N/A
		1/2 [12.57]	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	0 ⊕	25 [7.62]	39 [11.89]	37 [11.28]	36 [10.97]	34 [10.36]	32 [9.75]

NOTES: *Standard line size
 N/A = Application not recommended.
 ⊕ The "Minimum Vertical Separation" is the elevation difference between the outdoor unit being above the indoor coil.
 A "0" denoted in the table means that there is no elevation requirement (any elevation difference is acceptable).

Suction Line Length/Size versus Capacity Multiplier (R-22)								
Unit Size		1 1/2 Ton	2 Ton	2 1/2 Ton	3 Ton	3 1/2 Ton	4 Ton	5 Ton
Suction Line Connection Size		3/4" [19.05] I.D.			7/8" [22.23] I.D.			
Suction Line Run—Feet [m]		5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.*	5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.* 7/8" [22.23 mm] O.D. Opt.	3/4" [19.05 mm] O.D. Opt. 7/8" [22.23 mm] O.D. Std.*	3/4" [19.05 mm] O.D. Opt. 7/8" [22.23 mm] O.D. Std.*	3/4" [19.05 mm] O.D. Opt. 7/8" [22.23 mm] O.D. Std.* 1 1/8" [28.58 mm] O.D. Opt.	7/8" [22.23 mm] O.D. Opt. 1 1/8" [28.58 mm] O.D. Std.*	
25' [7.62]	Optional	.99	.99	.98	.99	.99	.99	.99
	Standard	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Optional	—	1.00	1.00	—	1.00	—	—
50' [15.24]	Optional	.97	.96	.96	.98	.97	.98	.97
	Standard	.99	.99	.98	.99	.98	.99	.99
	Optional	—	.99	.99	—	1.00	—	—
100' [30.48]	Optional	.94	.92	.94	.95	.93	.95	.95
	Standard	.96	.96	.96	.96	.96	.98	.98
	Optional	—	.97	.97	—	.98	—	—
150' [45.72]	Optional	.90	.89	.92	.93	.92	.93	.93
	Standard	.93	.93	.93	.94	.94	.96	.96
	Optional	—	.95	.95	—	.96	—	—

NOTES: *Standard line size
 Using suction line larger than shown in chart will result in poor oil return and is not recommended.

[] Designates Metric Conversions

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 period stated, in accordance with the terms of the limited warranty. All PartsFive (5) Years

For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See the Product Warranty Card.

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NOTES

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

**Rheem Heating,
Cooling and
Water Heating**

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



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