



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.

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.

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



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 Recycled R-22 refrigerant meeting AHRI 700 purity standard.







Model Number Identification

RCU	<u>13</u>	<u>022</u>	<u>A</u>	<u>18</u>	<u>J</u>
PRODUCT CLASSIFICATION	SEER	REFRIGERANT 022 = R-22	DESIGN SERIES	NOMINAL COOLING CAPACITY	VOLTAGE
REMOTE CONDENSING UNIT	13 = 13 SEER	OLL - III EE	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]	J = 208-230V SINGLE PHASE C = 208-230V THREE PHASE D = 460V THREE PHASE

Performance Data @ AHRI Standard Conditions—Cooling

М	odel Numbers		80°F [26.5°C] DB/67 95°F [35°C	7°F [19.5°C] WB Ind C] DB Outdoor Air	oor Air		Sound	Indoor	
Outdoor Unit RCU	Indoor Coil and/or Air Handler	Total Net Capacity Sensible BTU/H [kW] BTU/H [kW]		Net Latent EER BTU/H [kW]		SEER	Rating dB	CFM [L/s]	
1302218J	RCFA-H*2417A* ①	18,300 [5.4]	13,000 [3.8]	5,300 [1.6]	11.70	13.00	76	600 [283]	
1302224J	RCFA-H*2417A* ①	23,400 [6.9]	16,350 [4.8]	7,050 [2.1]	11.55	13.00	74	800 [378]	
1302230J	RCFA-H*3617A* ①	28,600 [8.4]	20,100 [5.9]	8,500 [2.5]	11.50	13.00	73	1,000 [472]	
1302236J	RCFA-H*3617A* ①	34,400 [10.1]	25,100 [7.4]	9,300 [2.7]	11.75	13.00	76	1,175 [554]	
1302242J	RCFA-H*4821A* ①	40,500 [11.9]	29,000 [8.5]	11,500 [3.4]	11.15	13.00	76	1,400 [661]	
1302248J	RCFA-H*4821A* ①	46,000 [13.5]	33,300 [9.8]	12,700 [3.7]	11.65	13.00	77	1,575 [743]	
1302260J	RCFA-H*6024A* ①	57,000 [16.7]	39,400 [11.5]	17,600 [5.2]	11.10	13.00	77	1,725 [814]	

 $[\]ensuremath{\textcircled{1}}$ Highest sales volume tested combination required by D.O.E. test procedures.

^[] Designates Metric Conversions

Electrical and Physical Data

			ELEC	TRICAL				PHYSICAL						
Model	Phase	Compressor		Fan Motor			Fuse or HACR Circuit Breaker		utdoor	Coil	Refrigerant	Weight		
Number RCU	Frequency [HZ] Voltage [Volts]		Locked Rotor Amperes (LRA)		A	Minimum	Maximum	Face Area Sq. Ft. [m²]	No. Rows	CFM [L/s]	Per Circuit* Oz. [g]	Net Lbs. [kg]	Shipping Lbs. [kg]	
13022A18J	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]	
13022A24J	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]	
13022A30J	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]	
13022A36J	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]	
13022A42J	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]	
13022A48J	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]	
13022A60J	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]	

			ELECT	RICAL				PHYSICAL							
Model Number	Phase Frequency (Hz) Voltage (Volts)	Compressor		Fan Motor Full Load	Minimu m Circuit		Fuse or HACR Circuit Breaker		Outdoor Coil			Weight			
RCU		Amperes (RLA)	Amperes (LRA)	Miliholog	Aiiipavity	IVIIIIIIIIIIIIII	Maximum Amperes	Face Area Sq. Ft. [m2]	No. Rows	CFM [L/s]	Circuit* Oz. [g]	Net Lbs. [kg]	Shipping Lbs. [kg]		
13022A36C	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]		
13022A42C	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]		
13022A48C	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]		
13022A60C	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]		

			ELECT	RICAL				PHYSICAL						
Model Number RCU	Phase Frequency (Hz) Voltage (Volts)	Compressor		Fan Motor Full Load	-	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrigerant Per	Weight		
		Amperes (RLA)	Amperes (LRA)		Ampacity			Face Area Sq. Ft. [m2]		CFM [L/s]	Circuit* Oz. [g]	Net Lbs. [kg]	Shipping Lbs. [kg]	
13022A36D	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]	
13022A42D	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]	
13022A48D	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]	
13022A60D	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]	

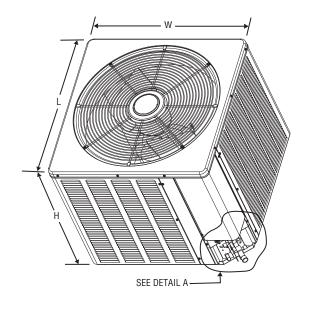
NOTE: Refrigerant charge shown is for 15 feet of standard line set. Units are shipped with a nitrogen holding charge and must be charged with R-22 in the field.

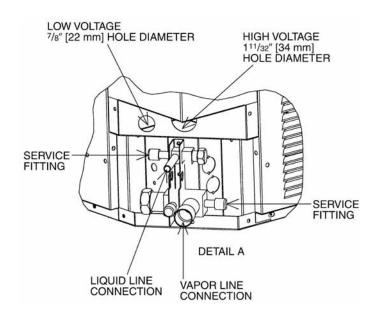
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Unit Dimensions

Model No.	Unit Dimensions									
RCU13022A	Width "W" Inches	Length "L" Inches	Height "H" Inches							
18, 24	235/8 [600]	235/8 [600]	24 ¹ /4 [616]							
30	275/8 [702]	275/8 [702]	24 ¹ /4 [616]							
36, 42, 48	31 ⁵ /8 [803]	315/8 [803]	27 ¹⁵ /16 [710]							
60	315/8 [803]	315/8 [803]	35 ¹⁵ /16 [913]							

[] Designates Metric Conversions





Condensing Unit Refrigerant Line Size Information

	Liquid Line	Lina Cina		(Cooling Or	Size – Outdo Ily—Does n	Heat Pump		Liquid Line Size – Outdoor Unit Below Indoor Coil (Cooling Only)							
System	Connection			Total	Equivalent	Length—F	eet [m]		Total Equivalent Length—Feet [m]						
Capacity	Size (Inch I.D.)		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]	
				Minimu	n Vertical S	eparation-	-Feet [m]			Maximun	n Vertical S	eparation-	–Feet [m]		
	0./0	1/4 [6.35]	0 ①	0 ①	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	
1 ¹ / ₂ Ton	3/8" [9.53]	5/16 [7.94]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	27 [8.23]	24 [7.32]	21 [6.40]	17 [5.18]	14 [4.27]	
	. ,	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	40 [12.19]	39 [11.89]	38 [11.58]	37 [11.28]	35 [10.67]	
	0.40#	1/4 [6.35]	0 ①	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	
2 Ton	3/8" [9.53]	5/16 [7.94]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	26 [7.92]	21 [6.40]	15 [4.57]	10 [3.05]	5 [1.52]	
	[5.55]	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	38 [11.58]	36 [10.97]	35 [10.67]	33 [10.06]	31 [9.45]	
	0.40#	1/4 [6.35]	0 ①	34 [10.36]	69 [21.03]	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	
21/2 Ton	3/8" [9.53]	5/16 [7.94]	0 ①	0 ①	0 ①	0 ①	9 [2.74]	18 [5.49]	25 [7.62]	17 [5.18]	8 [2.44]	0	N/A	N/A	
	[0.00]	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	37 [11.28]	34 [10.36]	31 [9.45]	29 [8.84]	26 [7.92]	
3 Ton	3/8"	5/16 [7.94]	0 ①	0 ①	0 ①	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 1011	[9.53]	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	30 [9.14]	26 [7.92]	23 [7.01]	19 [5.79]	16 [4.88]	
3 ¹ / ₂ Ton		5/16 [7.94]	0 ①	0 ①	0 ①	13 [3.96]	28 [8.53]	43 [13.11]	25 [7.62]	17 [5.18]	2 [0.61]	N/A	N/A	N/A	
3.72 1011	[9.53]	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	37 [11.28]	32 [9.75]	28 [8.53]	23 [7.01]	18 [5.49]	
4 Ton	3/8"	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	33 [10.06]	27 [8.23]	21 [6.40]	15 [4.57]	9 [2.74]	
7 1011	[9.53]	1/2 [12.57]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	25 [7.62]	43 [13.11]	42 [12.80]	40 [12.19]	39 [11.89]	38 [11.58]	
5 Ton	3/8"	3/8* [9.53]	0 ①	0 ①	0 ①	0 ①	0 ①	9 [2.74]	25 [7.62]	25 [7.62]	17 [5.18]	8 [2.44]	0	N/A	
3 1011	[9.53]	1/2 [12.57]	0 ①	0 ①	0 ①	0 ①	0 ①	0 ①	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.

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 9	Size	1 ¹ / ₂ Ton	2 Ton	21/2 Ton	3 Ton	31/2 Ton	4 Ton	5 Ton					
Suctior Connecti		3/4" [19	.05] I.D.			7/8" [22.23] I.D.							
Suction Lir Feet		5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.*	⁵ /8" [15.88 m ³ /4" [19.05 m ⁷ /8" [22.23 m	m] 0.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.* 11/8" [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 Standard Optional	.99 1.00 —	.99 1.00 1.00	.98 1.00 1.00	.99 1.00 —	.99 1.00 1.00	.99 1.00 —	.99 1.00 —					
50' [15.24]	Optional Standard Optional	.97 .99 —	.96 .99 .99	.96 .98 .99	.98 .99 —	.97 .98 1.00	.98 .99 —	.97 .99 —					
100' [30.48]	Optional Standard Optional	.94 .96	.92 .96 .97	.94 .96 .97	.95 .96 —	.93 .96 .98	.95 .98 —	.95 .98 —					
150' [45.72]	Optional Standard Optional	.90 .93 —	.89 .93 .95	.92 .93 .95	.93 .94 —	.92 .94 .96	.93 .96 —	.93 .96 —					

NOTES: *Standard line size

Using suction line larger than shown in chart will result in poor oil return and is not recommended.

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

GENERAL TERMS OF LIMITED WARRANTY*

Sure Comfort™ 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.

PartsFive (5) Years

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

① The "Minimum Vertical Separation" is the elevation difference between the outdoor unit being above the indoor coil.

NOTES

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.

Sure Comfort™

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

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