

CONDENSING UNITS



Featuring
New Industry Standard
R-410A Refrigerant

R-410A



SAGL SERIES

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
- Scroll Compressor
- High and Low Pressure Switches

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 Ambient Control (RXAD-A08)
- Compressor Time Delay Control
- Crankcase Heater
- Sound Enclosure



Model Number Identification

S	A	G	L	18	T	A
S = RHEEM	A = AIR CONDITIONER	G = HIGH EFFICIENCY	DESIGN SERIES L = R-410A	NOMINAL COOLING CAPACITY 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] 65 = 65,000 BTU/HR [19.05 kW]	T = 220/240 50 Hz 1 PH N = 380/415 50 Hz 3 PH	CABINET A = FULL METAL JACKET

Performance Data @ ARI 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 SAGL	Indoor Coil and/or Air Handler	Total Gross Capacity BTU/H [kW]	Gross Sensible BTU/H [kW]	Latent BTU/H [kW]	EER		
18T	SHSL-HM3017	17,200 [5.0]	12,000 [3.5]	5,200 [1.5]	13.00	72	600 [283]
	SHLL-HM3017	17,200 [5.0]	12,000 [3.5]	5,200 [1.5]	14.00	72	600 [283]
	RCFL-HM2417	17,200 [5.0]	12,000 [3.5]	5,200 [1.5]	11.50	72	600 [283]
	RCFL-HM2414	17,200 [5.0]	12,000 [3.5]	5,200 [1.5]	11.50	72	600 [283]
24T	SHSL-HM3017	21,800 [6.4]	15,600 [4.6]	6,200 [1.8]	12.30	72	700 [330]
	SHLL-HM3017	21,800 [6.4]	15,600 [4.6]	6,200 [1.8]	13.00	72	700 [330]
	RCFL-HM2417	21,800 [6.4]	15,600 [4.6]	6,200 [1.8]	11.00	72	700 [330]
	RCFL-HM2414	21,800 [6.4]	15,600 [4.6]	6,200 [1.8]	11.00	72	700 [330]
30T	SHSL-HM3017	25,700 [7.5]	18,500 [5.4]	7,200 [2.1]	12.80	73	800 [377]
	SHLL-HM3017	25,700 [7.5]	18,500 [5.4]	7,200 [2.1]	13.90	73	800 [377]
	RCFL-HM2417	25,700 [7.5]	18,500 [5.4]	7,200 [2.1]	11.00	73	800 [377]
	RCFL-HM2414	25,700 [7.5]	18,500 [5.4]	7,200 [2.1]	11.00	73	800 [377]
36T	SHSL-HM4217	31,400 [9.2]	22,700 [6.7]	8,700 [2.6]	11.95	73	1,000 [472]
	SHLL-HM4217	31,400 [9.2]	22,700 [6.7]	8,700 [2.6]	13.50	73	1,000 [472]
	RCFL-HM3617	31,400 [9.2]	22,700 [6.7]	8,700 [2.6]	11.00	73	1,000 [472]
42T	SHSL-HM4217	36,000 [10.6]	26,700 [7.8]	9,300 [2.7]	11.00	73	1,200 [566]
	SHLL-HM4217	36,000 [10.6]	26,700 [7.8]	9,300 [2.7]	12.50	74	1,200 [566]
	RCFL-HM3617	36,000 [10.6]	26,700 [7.8]	9,300 [2.7]	10.00	74	1,200 [566]
48T	SHSL-HM6021	42,500 [12.5]	32,400 [9.5]	10,100 [3.0]	11.50	74	1,400 [660]
	SHLL-HM6021	42,500 [12.5]	32,400 [9.5]	10,100 [3.0]	13.00	74	1,400 [660]
	RCFL-HM4821	42,500 [12.5]	32,400 [9.5]	10,100 [3.0]	10.50	74	1,400 [660]
36N	SHSL-HM4217	31,200 [9.1]	22,700 [6.7]	8,500 [2.5]	12.00	73	1,000 [472]
	SHLL-HM4217	31,200 [9.1]	22,700 [6.7]	8,500 [2.5]	13.50	73	1,000 [472]
	RCFL-HM3617	31,200 [9.1]	22,700 [6.7]	8,500 [2.5]	10.90	73	1,000 [472]
42N	SHSL-HM4217	35,700 [10.5]	26,400 [7.7]	9,300 [2.7]	11.50	74	1,200 [566]
	SHLL-HM4217	35,700 [10.5]	26,400 [7.7]	9,300 [2.7]	13.00	74	1,200 [566]
	RCFL-HM3617	35,700 [10.5]	26,400 [7.7]	9,300 [2.7]	10.50	74	1,200 [566]
48N	SHSL-HM6021	41,800 [12.3]	31,700 [9.3]	10,100 [3.0]	12.00	74	1,400 [660]
	SHLL-HM6021	41,800 [12.3]	31,700 [9.3]	10,100 [3.0]	13.00	74	1,400 [660]
	RCFL-HM4821	41,800 [12.3]	31,700 [9.3]	10,100 [3.0]	11.00	74	1,400 [660]
60N	SHSL-HM6021	55,800 [16.4]	41,600 [12.2]	14,200 [4.2]	10.00	74	1,750 [826]
	SHLL-HM6021	55,800 [16.4]	41,600 [12.2]	14,200 [4.2]	11.00	74	1,750 [826]
	RCFL-HM4821	55,800 [16.4]	41,600 [12.2]	14,200 [4.2]	10.50	74	1,750 [826]
65N	SHLL-HM6524	67,800 [19.9]	50,700 [14.9]	17,100 [5.0]	11.00	75	2,000 [944]
	RCFL-HM6024	67,800 [19.9]	5,7000 [14.9]	17,100 [5.0]	10.00	75	2,000 [944]

*Sound rating in accordance with ARI 270 sound standard.

[] Designates Metric Conversions

Electrical and Physical Data

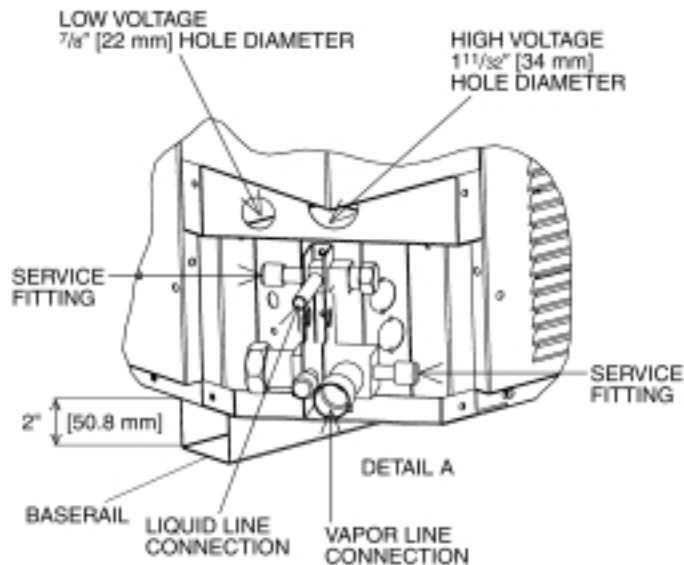
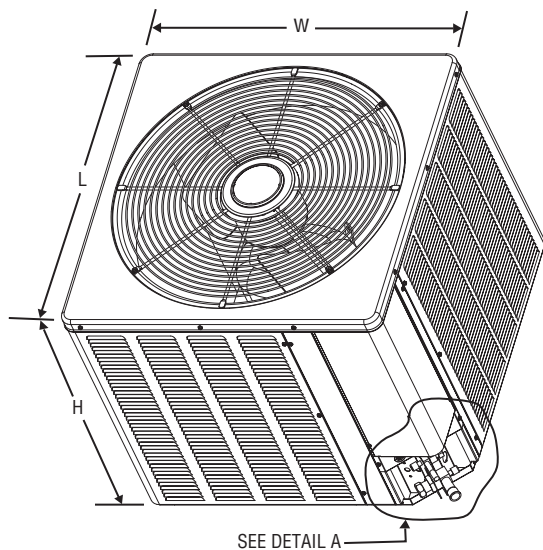
Model Number SAGL	ELECTRICAL							PHYSICAL					
	Phase Frequency [HZ] Voltage [Volts]	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrigerant Per Circuit Oz. [g]	Weight	
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [m ²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]
Rev. 10/1/09													
018TA	1-50-208/230	7.9/7.9	44	0.6	12/12	15/15	15/15	11.06 [1.03]	1	1573 [742]	61 [1729]	125 [56.7]	127 [57.6]
024TA	1-50-208/230	10/10	52	0.6	17/17	20/20	20/20	11.06 [1.03]	1	1573 [742]	70 [1984]	122 [55.3]	126 [57.2]
030TA	1-50-208/230	12.5/12.5	60	0.8	19/19	25/25	25/25	13.72 [1.27]	1	2362 [1115]	78 [2211]	131 [59.4]	144 [65.3]
036NA	3-50-380/415	6.4/6.4	38	1	10/10	15/15	15/15	16.39 [1.52]	1	2511 [1185]	102 [2892]	131 [59.4]	144 [65.3]
036TA	1-50-208/230	15/15	67	1	23/23	30/30	30/30	16.39 [1.52]	1	2511 [1185]	95 [2693]	34 [15.4]	166 [75.3]
042NA	3-50-380/415	6.6/6.6	44	1	12/12	15/15	15/15	16.39 [1.52]	1	2880 [1359]	104 [2948]	75 [34.0]	166 [75.3]
042TA	1-50-208/230	17.9/17.9	87	1.2	29/29	30/30	35/35	16.39 [1.52]	1	2880 [1359]	101 [2863]	142 [64.4]	194 [88.0]
048NA	3-50-380/415	6.9/6.9	41	1	12/12	15/15	15/15	21.85 [2.03]	1	2975 [1404]	142 [4026]	159 [72.1]	194 [88.0]
048TA	1-50-208/230	17.7/17.7	98	1.2	29/29	35/35	35/35	21.85 [2.03]	1	2975 [1404]	149 [4224]	133 [60.3]	221 [100.2]
060NA	3-50-380/415	8.9/8.9	52	1	15/15	20/20	20/20	21.85 [2.03]	1	2975 [1404]	172 [4876]	169 [76.7]	221 [100.2]
065NA	3-50-380/415	11.8/11.8	75	1	15/15	20/20	20/20	21.85 [2.03]	1	2975 [1404]	172 [4876]	167 [75.8]	222 [100.7]

NOTE: Factory Refrigerant Charge includes refrigerant for 15 feet of standard line set.

Unit Dimensions

Model No. SAGL	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	31 ⁵ / ₈ [803]	31 ⁵ / ₈ [803]	27 ¹⁵ / ₁₆ [710]
48, 60, 65	31 ⁵ / ₈ [803]	31 ⁵ / ₈ [803]	35 ¹⁵ / ₁₆ [913]

[] Designates Metric Conversions



Condensing Unit Refrigerant Line Size Information

Liquid Line Sizing (R-410A)														
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					
			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]					
018	3/8" [9.53]	1/4 [6.35]	0**	0**	0**	0**	8 [2.44]	24 [7.32]	25 [7.62]	40 [12.19]	25 [7.62]	9 [2.74]	N/A	N/A
		5/16 [7.94]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	62 [18.90]	58 [17.68]	53 [16.15]	49 [14.94]
		3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	75 [22.86]	72 [21.95]	70 [21.34]	68 [20.73]
024	3/8" [9.53]	1/4 [6.35]	0**	3 [0.91]	29 [8.84]	55 [16.76]	81 [24.69]	108 [32.92]	23 [7.01]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	0**	0**	0**	0**	0**	0**	25 [7.62]	36 [10.97]	29 [8.84]	23 [7.01]	16 [4.88]	9 [2.74]
		3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	72 [21.95]	70 [21.34]	68 [20.73]	65 [19.81]
030	3/8" [9.53]	1/4 [6.35]	0**	14 [4.27]	56 [17.07]	98 [29.87]	N/A	N/A	25 [7.62]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	0**	0**	0**	0**	0**	0**	25 [7.62]	49 [14.94]	38 [11.58]	27 [8.23]	17 [5.18]	6 [1.83]
		3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	68 [20.73]	65 [19.81]	62 [18.90]	58 [17.68]
036	3/8" [9.53]	5/16 [7.94]	0**	0**	0**	0**	0**	9 [2.74]	25 [7.62]	50 [15.24]	37 [11.28]	22 [6.71]	7 [2.13]	N/A
		3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	68 [20.73]	63 [19.20]	58 [17.68]	53 [16.15]
042	3/8" [9.53]	5/16 [7.94]	0**	0**	0**	16 [4.88]	35 [10.67]	54 [16.46]	25 [7.62]	23 [7.01]	4 [1.22]	N/A	N/A	N/A
		3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	43 [13.11]	36 [10.97]	30 [9.14]	24 [7.32]
048	3/8" [9.53]	3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	46 [14.02]	38 [11.58]	30 [9.14]	22 [6.71]	15 [4.57]
		1/2 [12.57]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	56 [17.07]	55 [16.76]	53 [16.15]	52 [15.85]
060	3/8" [9.53]	3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	56 [17.07]	44 [13.41]	32 [9.75]	20 [6.10]
		1/2 [12.57]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	75 [22.86]	81 [24.69]	79 [24.08]	76 [23.16]
065	3/8" [9.53]	3/8* [9.53]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	56 [17.07]	44 [13.41]	32 [9.75]	20 [6.10]
		1/2 [12.57]	0**	0**	0**	0**	0**	0**	25 [7.62]	50 [15.24]	75 [22.86]	81 [24.69]	79 [24.08]	76 [23.16]

NOTES: *Standard line size
 N/A = Application not recommended.
 **Zero Vertical Separation imposes no restrictions.

Suction Line Length/Size versus Capacity Multiplier (R-410A)										
Unit Size	018	024	030	036	042	048	060	065		
Suction Line Connection Size	3/4" [19.05 mm] I.D.					7/8" [22.23] I.D.				
Suction Line Run—Feet [m]	5/8" [15.88 mm] O.D. Optional 3/4" [19.05 mm] O.D. Standard*		5/8" [15.88 mm] O.D. Optional 3/4" [19.05 mm] O.D. Standard* 7/8" [22.23 mm] O.D. Optional		3/4" [19.05 mm] O.D. Optional 7/8" [22.23 mm] O.D. Standard*		7/8" [22.23 mm] O.D. Optional 1 1/8" [25.58 mm] O.D. Standard*			
25' [7.62]	Optional Standard Optional	1.00 1.00 —	1.00 1.00 —	1.00 1.00 1.00	1.00 1.00 —	1.00 1.00 —	1.00 1.00 —	1.00 1.00 —	1.00 1.00 —	
50' [15.24]	Optional Standard Optional	.98 .99 —	.98 .99 —	.96 .98 .99	.98 .99 —	.99 .99 —	.99 .99 —	.99 .99 —	.99 .99 —	
100' [30.48]	Optional Standard Optional	.95 .96 —	.95 .96 —	.94 .96 .97	.96 .97 —	.96 .98 —	.96 .98 —	.97 .98 —	.97 .98 —	
150' [45.72]	Optional Standard Optional	.92 .93 —	.92 .94 —	.91 .93 .95	.94 .95 —	.94 .96 —	.95 .96 —	.94 .97 —	.94 .97 —	

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.

<p>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.</p>	<p>Rheem Heating, Cooling and Water Heating</p> <p>P.O. Box 17010, Fort Smith, AR 72917</p>	
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"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."