



The new degree of comfort.®



Package Air Conditioner  
**SAGL-SHSL&SHLLSeries**

# Split System

## SAGL-SHSL & SHLL SERIES

Earth-Friendly R-410A Refrigerant 50 Hz

**R-410A**  
featuring  
earth friendly refrigerant



### 13 SEER CONDENSING UNITS

#### Features

- Louvered steel cabinet, Painting rated at 1008 hour salt spray per ASTM B117
- Easily accessible control box.
- Condenser coils constructed with Copper tubing and enhanced aluminum fin.
- Exclusive Combination Grille/Motor mount secures the motor to the underside of the discharge grille for quiet fan operation.
- Bi-Directional Filter Drier (Shipped - not installed).
- Low Pressure Control (RXAC -A07).
- High Pressure Control (RAB-A07).

#### Applications

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

#### Accessories ( Optional)

Low Ambient Control (RXAC-A07).  
Crankcase Heater.  
Sound Enclosure.



### AIR HANDLERS

#### Features

- 1<sup>1/2</sup> [5.3 kW] through 6 ton [21.2 kW] models are between 42<sup>1/2</sup> to 55<sup>1/2</sup> inches [1080 to 1410mm] tall (long, in case of horizontal installation) and 22 inches [559 mm] deep.
- Versatile 4-way field convertible design for upflow, downflow, horizontal left side and horizontal right side applications.
- Factory-installed high efficiency indoor coil with Thermostatic expansion valve.
- All models meet or exceed 330 to 400 CFM [156 to 189 L/s] per ton at 0.3 inches of external static pressure.
- Enhanced airflow up to 0.7" external static pressure.
- Sturdy construction with 1.0 inch of reinforced foil faced jacket insulation for excellent thermal and sound lining.
- Field-installed auxiliary electric heater kits provide exact heat for indoor comfort. Kits include circuit breakers which meet UL requirements for service disconnect.



Tested in accordance  
with AHR 210 240



INTEGRATED AIR & WATER

[www.rheem-mea.com](http://www.rheem-mea.com)

The new degree of comfort.™

## Rheem History

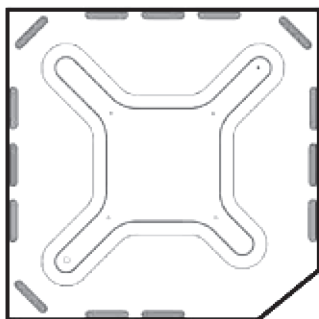
Rheem Manufacturing company was established in the USA in the mid-1920s when brothers Richard and Donald Rheem acquired a galvanizing plant in San Francisco, California. In the 1930s, Rheem began manufacturing water heaters, and by 1936 had coast-to-coast distribution. During the 1950s, Rheem sensed a growing demand for central heating and cooling systems, so the company began investing in its HVAC products including air-conditioners and furnaces.

Today, Rheem is the only North American manufacturer delivering innovative, energy-efficient air and water solutions to homes and businesses in more than 70 countries worldwide. From its Atlanta, Ga. headquarters, three U.S. manufacturing facilities, state-of-the-art distribution center and Advanced Technology Integration (ATI) Lab, Rheem designs, builds and supplies some of the most reliable environmentally responsible and technologically advanced products in the industry. Under the “One Rheem Quality” promise, every Rheem product built anywhere in the world is held to the same high standard of excellence.

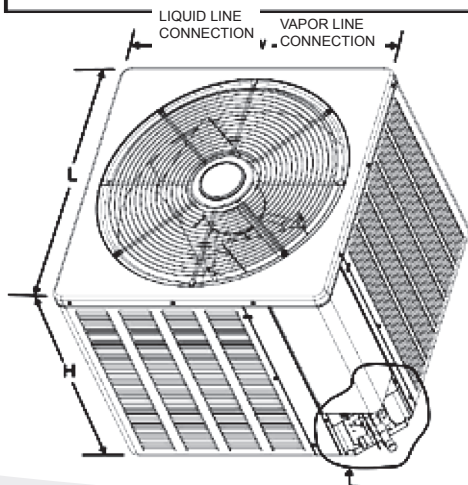
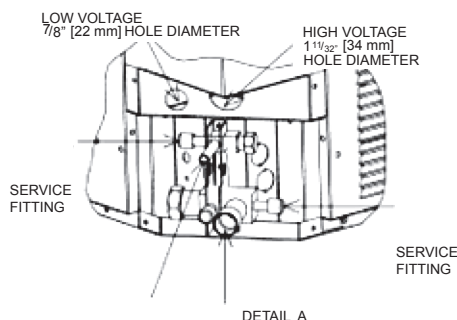




All controls and compressor are accessible for servicing by removal of its service panels.



DO NOT OBSTRUCT DRAIN SLOTS (SHADED).



## Engineering Features Top Discharge Condensing Units.

1. Scroll compressor is hermetically sealed and incorporates internal high temperature motor overload protection and durable insulation on the motor windings. It is internally spring mounted and externally mounted on rubber grommets to reduce vibration and noise.
2. Compressors have an internal pressure-relief assembly to protect against excessive pressure differential.
3. All refrigerant connections are on the exterior of the units, located close to the ground for neat appearing installations.
4. Cabinet is constructed of painted galvanized steel. The full wraparound louvered grille protects the coil from damage.
5. The control box is located on the top side corner of the cabinet providing easy access through a service panel.
6. Service valves are standard on all models.
7. Power and control wiring are kept separate.
8. Every unit is factory charged and tested.
9. Drawn base pan for extra corrosion resistance and sound reduction.
10. Time delay relay is standard feature.

## Field Installed Accessories (Optional)

- **Time Delay Control** - Compressor will remain off for five minutes after power or thermostat interruption, allowing system pressures to equalize. Starting during high pressure conditions can result in shortened compressor life. (Model No. RXMD-B01)
- **Low Ambient Switch** - Cycles outdoor fan to maintain adequate condensing pressure assuring liquid refrigerant flow to the coil. Allows indoor cooling with outdoor temperatures down to 50°F. (Model No. RXAD-A04) It is recommended that this control be installed in units to be operated at outdoor ambient temperatures under 70 F.
- **Hard Start Kits** - Available through the Parts Department.
- **Crankcase Heater** - Available through the Parts Department.

## Condensing Unit Dimension & Weight

Model No.	Unit Dimensions			Weight	
	Width "W" Inches(mm)	Length "L" Inches(mm)	Height "H" Inches(mm)	Net Lbs. [kg]	Shipping Lbs. [kg]
SAGL -018	23 5/8 [600]	23 5/8 [600]	24 1/4 [616]	126 [57.2]	134 [60.8]
SAGL -024	23 5/8 [600]	23 5/8 [600]	24 1/4 [616]	127 [57.6]	135 [61.2]
SAGL -030	27 5/8 [702]	27 5/8 [702]	24 1/4 [616]	144 [65.3]	154 [69.9]
SAGL -036	31 5/8 [803]	31 5/8 [803]	27 15/16 [710]	166 [75.3]	178 [80.7]
SAGL -042	31 5/8 [803]	31 5/8 [803]	27 15/16 [710]	194 [88.0]	206 [93.4]
SAGL -048	31 5/8 [803]	31 5/8 [803]	35 15/16 [913]	222 [100.7]	233 [105.7]
SAGL -060	31 5/8 [803]	31 5/8 [803]	35 15/16 [913]	227 [103]	238 [108]
SAGL -065	31 5/8 [803]	31 5/8 [803]	35 15/16 [913]	227 [103]	238 [108]

## Electrical & Other Performance Data - SAGL / SHSL & SHLL

Model Number	Phase-Hertz Voltage	Comp RLA	Comp LRA	Motor FLA	MCA	Fuse Sizes		Outdoor coil area Sq.Ft (M²)	Rows CFM (L/S)	R410A Charge Weight (Oz)	Sound Rating db(A)	Matched Indoor Model	
						Min	Max					SHSL	SHLL
SAGL -018TA	1-50-220/240	7.9	44	0.6	12	15	15	11.06(1.03)	<sup>1</sup> 1645 (776)	61	70	SHSL-HM3017TA	SHLL-HM3017TA
SAGL -024TA	1-50-220/240	10	52	0.6	17	30	30	11.06(1.03)	<sup>1</sup> 1700 (802)	70	70	SHSL-HM3017TA	SHLL-HM3017TA
SAGL -030TA	1-50-220/240	12.5	60	0.8	19	30	30	13.72(1.27)	<sup>1</sup> 2370 (1118)	78	69	SHSL-HM3017TA	SHLL-HM3017TA
SAGL -036TA	1-50-220/240	15	67	0.8	23	30	30	16.39(1.52)	<sup>1</sup> 2805 (1323)	95	71	SHSL-HM4217TA	SHLL-HM4217TA
SAGL -042TA	1-50-220/240	17.9	87	1.2	29	35	35	16.39(1.52)	<sup>1</sup> 2805 (1323)	104	72	SHSL-HM4217TA	SHLL-HM4217TA
SAGL -042NA	3-50-380/415	6.6	44	1	12	15	15	16.39(1.52)	<sup>1</sup> 2805 (1323)	101	72	SHSL-HM4217TA	SHLL-HM4217TA
SAGL -048NA	3-50-380/415	6.9	41	1	12	15	15	21.85(2.03)	<sup>1</sup> 3295 (1554)	142	72	SHSL-HM4217TA	SHLL-HM4217TA
SAGL -060NA	3-50-380/415	8.9	52	1	15	20	20	21.85(2.03)	<sup>1</sup> 3295 (1554)	172	74	SHSL-HM6021TA	SHLL-HM6021TA HM6524TA
SAGL -065NA	3-50-380/415	11.8	75	1	15	20	20	21.85(2.03)	<sup>1</sup> 3295 (1554)	172	74	NA	SHLL-HM6524TA

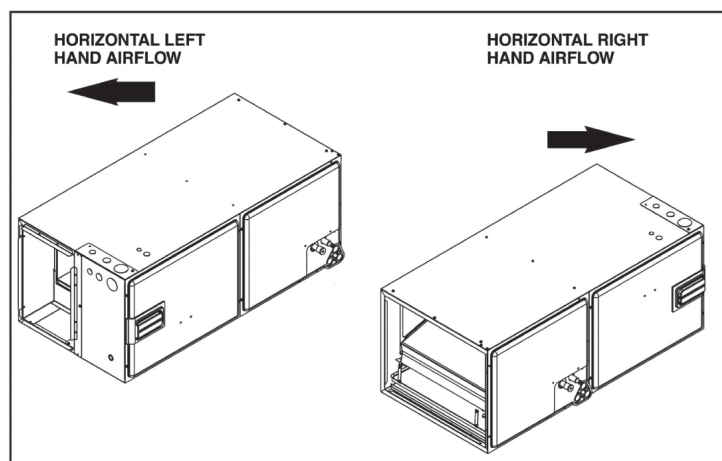
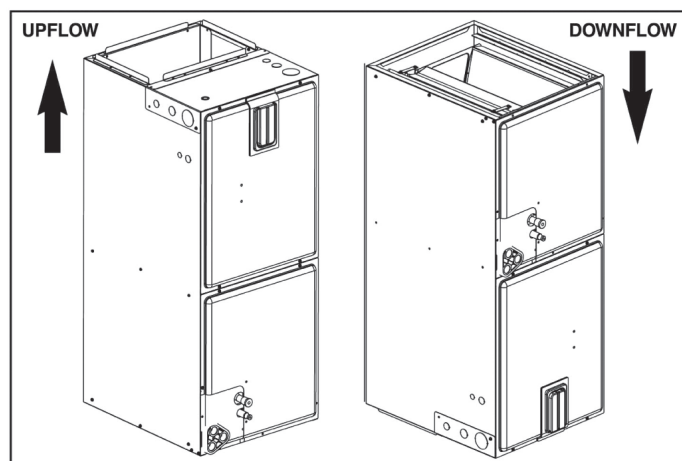
## SHSL Electrical Data - Blower Motor Only

Model SHSL	Voltage	Application Phase	Hertz	HP	RPM	Speeds	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Ampacity
3017	220/240	1	50	1/3	900	3	1.8	3.0	15
4217				1/3	1030	3	3.0	4.0	15
6021				1/2	1100	3	4.2	5.0	15

## SHLL Electrical Data - Blower Motor Only

Model SHLL	Voltage	Application Phase	Hertz	HP	RPM	Speeds	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Ampacity
3017	220/240	1	50	1/3	300-1100	5	1.6	2.0	15
4217				1/2	300-1100	5	2.7	4.0	15
6021				3/4	300-1100	5	3.8	5.0	15
6524				3/4	300-1100	5	4.6	6.0	15

## Airflow Directions





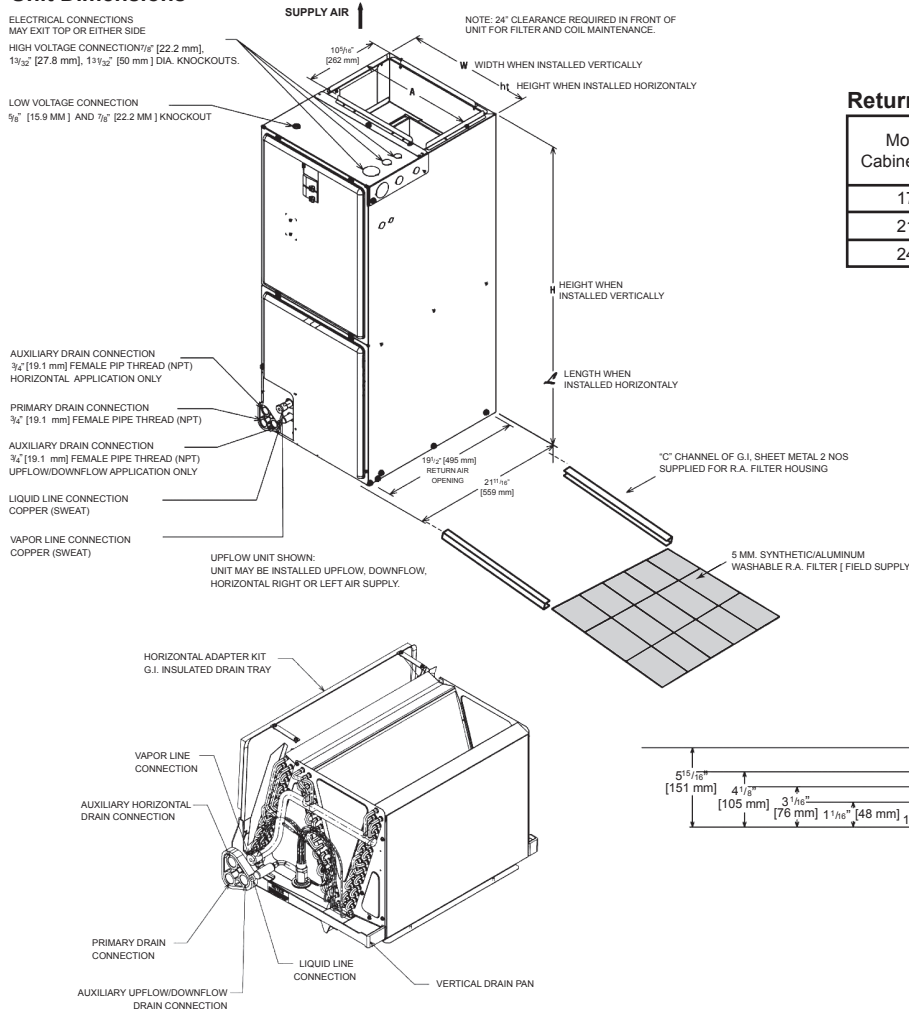
# Engineering Features

## SHSL & SHLL Air Handling Units

- Attractive pre-painted cabinet exterior.
- Rugged wall steel cabinet construction, designed for added strength and versatility.
- Four leg blower motor mount.
- Slideout design for service and maintenance convenience.
- Traditional open wire element design for heat applications.
- 3 combustible floor base accessories fit all model sizes when required for downflow installations on combustible floors.
- Indoor coil design provides low air side pressure drop, high performance and externally compact size.
- Concentric knockouts are provided for power connection to cabinet. Installer may pull desired hole size up to 2 inches [51mm] for 1<sup>1/2</sup> inch [38 mm] conduit.

- Expansion valve on indoor coil provides for operation with air conditioning or heat pump using the same coil.
- Coils are constructed of aluminum fins bonded to internally grooved copper tubing.
- Moulded polymer corrosion resistant condensate drain pan is provided on all indoor coils.
- Supply duct flanges provided as standard on air handler cabinet.
- Provisions for field electrical connections available from either side or top of the air handler cabinet.
- Connection point for high voltage wiring is inside the air handler cabinet.
- Front refrigerant and drain connections.
- Low voltage connection is made on the outside of the air handler cabinet.

## Unit Dimensions



## Return Air Opening Dimensions

Model Cabinet Size	Return Air Opening Width (Inches)	Return Air Opening Depth/Length (Inches)
17	15 7/8	19 3/4
21	19 3/8	19 3/4
24	22 7/8	19 3/4

## Unit Dimensions & Weights

Model Size	For Vertical Installation Unit Width "W" In. [mm]	For Horizontal Installation Unit Height "ht" In. [mm]	For Vertical Installation Unit Height "H" In. [mm]	For Horizontal Installation Unit Length "L" In. [mm]	SUPPLY Duct "A" In. [MM]	Unit Weight/Shipping Weight (Lbs.) [kg]
3017	17 1/2 [445]		42 1/2 [1080]		16 [406]	82 [37]
4217	17 1/2 [445]		42 1/2 [1080]		16 [406]	92 [41]
6021	21 [533]		50 1/2 [1282]		19 1/2 [495]	150 [68]
6524	24 1/2 [622]		55 1/2 [1410]		23 [584]	181 [82]



## Performance Data

MODEL		SAGL-018T (+) (++)		SHLL-HM3017TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	700	13.2	16100	1220	
MEW	80/67-118.4F	700	9.6	14950	1560	1.25
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-042T (+) (++)		SHLL-HM4217TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	1220	11.60	34700	3000	
MEW	80/67-118.4F	1220	8.5	31481	3685	1.40
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-018T (+) (++)		SHSL-HM3017TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	788	13.0	16900	1300	
MEW	80/67-118.4F	788	9.3	15860	1703	1.29
MEW CONTINUITY	80/67-125.6F	Passed 2 - hour continuity @ 125.6 F, 52 C				

MODEL		SAGL-042N (+) (++)		SHLL-HM4217TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/Ton
T1	27/19-35C	1220	11.60	35860	3100	
MEW	80/67-118.4F	1220	8.6	32823	3832	1.40
MEW CONTINUITY	80/67-125.6F	Passed 2 - hour continuity @ 125.6 F, 52 C				

MODEL		SAGL-024T (+) (++)		SHLL-HM3017TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	700	11.80	20400	1725	
MEW	80/67-118.4F	700	8.6	18575	2161	1.40
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-048N (+) (++)		SHLL-HM6021TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	1400	13.1	45800	3500	
MEW	80/67-118.4F	1400	8.9	40442	4544	1.35
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-030T (+) (++)		SHLL-HM3017TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	800	13.2	24400	1850	
MEW	80/67-118.4F	800	10.3	21479	2087	1.17
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-060N (+) (++)		SHLL-HM6021TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	1900	11.80	57850	4900	
MEW	80/67-118.4F	1900	8.5	53562	6271	1.40
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-030T (+) (++)		SHSL-HM3017TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	800	13.1	25200	1925	
MEW	80/67-118.4F	800	9.1	22909	2525	1.32
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-060N (+) (++)		SHLL-HM6524TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	2250	13.04	66000	5060	
MEW	80/67-118.4F	2250	8.9	58043	6498	1.34
MEW CONTINUITY	80/67-125.6F	Passed 2 - hour continuity @ 125.6 F, 52 C				

MODEL		SAGL-036T (+) (++)		SHLL-HM4217TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	1020	11.70	30500	2500	
MEW	80/67-118.4F	1020	8.6	27170	3174	1.40
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-065N (+) (++)		SHLL-HM6524TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	2250	13.0	76577	5900	
MEW	80/67-118.4F	2250	8.6	65228	7586	1.40
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

MODEL		SAGL-036T (+) (++)		SHSL-HM4217TA		
Test	Test IDU/ODU Conditions	Maximum Air Flow (CFM)	EER (BTU/Hr W)	Capacity (BTU/Hr)	Total Watts (W)	KW/ Ton
T1	27/19-35C	1220	13.00	33670	2590	
MEW	80/67-118.4F	1220	8.6	28998	3379	1.40
MEW CONTINUITY	80/67-125.6F		Passed 2 - hour continuity @ 125.6 F, 52 C			

(+) Followed by suffix:  
A - Base Unit  
S - Base unit with oil separator  
(++) Optional suffix:  
A35 - Gold fin coil with time delay  
035 - Gold fin coil  
011 - Time delay

Model No.	Condenser Fan Motor Rated (HP)
SAGL-018T (+) (++)	1/10
SAGL-024T (+) (++)	1/10
SAGL-030T (+) (++)	1/6
SAGL-036T (+) (++)	1/6
SAGL-042T (+) (++)	1/5
SAGL-042N (+) (++)	1/6
SAGL-048N (+) (++)	1/3
SAGL-060N (+) (++)	1/3
SAGL-065N (+) (++)	1/3



# Pipe Size Chart

Single Stage	Liquid Line Size	Suction Line Size	Outdoor Unit ABOVE Indoor Unit														
			Equivalent Length in Meters														
			Condition - A			Condition - B			Condition - C								
			<15	15.5-22.5	23-45	38-45	45-75	75-90	45.5-52.5	53-60	61.5-67.5	68-75	75.5-82.5	83-90			
			Maximum Vertical Separation / Capacity Multiplier														
SAGL-018	1/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	52.5 / 0.97	N/A	N/A	N/A	N/A	N/A	N/A	
	5/16"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.98	45 / 0.96	45 / 0.95	45 / 0.95	45 / 0.95	52.5 / 0.97	58 / 0.97	56 / 0.96	55 / 0.96	52.5 / 0.96	52.5 / 0.96	52.5 / 0.95	
	3/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.98	45 / 0.96	45 / 0.95	45 / 0.95	45 / 0.95	52.5 / 0.97	60 / 0.97	60 / 0.96	60 / 0.96	60 / 0.96	60 / 0.96	60 / 0.95	
SAGL-024	1/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	5/16"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.95	45 / 0.95	45 / 0.95	52 / 0.97	55 / 0.96	50 / 0.95	47 / 0.95	N/A	N/A	N/A	
	3/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.95	45 / 0.95	45 / 0.95	52.5 / 0.97	60 / 0.96	60 / 0.95	60 / 0.95	60 / 0.95	60 / 0.95	60* / 0.94	
SAGL-030	5/16"	15 / 0.98	22.5 / 0.97	33.5 / 0.97	40 / 0.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/8"	15 / 0.98	22.5 / 0.97	33.5 / 0.97	40 / 0.95	45 / 0.92	45 / 0.91	45 / 0.91	45 / 0.91	52.5 / 0.94	60 / 0.93	60 / 0.93	60 / 0.92	60 / 0.92	60* / 0.92	60* / 0.91	
	3/4"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SAGL-036	3/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	45 / 0.97	45 / 0.96	45 / 0.96	45 / 0.96	52.5 / 0.98	60 / 0.98	60 / 0.97	60 / 0.97	60 / 0.97	60* / 0.97	60* / 0.96	
	5/16"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/4"	15 / 0.98	22.5 / 0.97	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SAGL-042	3/8"	15 / 1.00	22.5 / 1.00	33.5 / 0.99	40 / 0.97	45 / 0.97	45 / 0.96	45 / 0.96	45 / 0.96	52.5 / 0.96	60 / 0.98	60 / 0.97	60 / 0.97	60* / 0.96	60* / 0.96	60* / 0.96	
	5/16"	15 / 1.00	22.5 / 0.99	33.5 / 0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/8"	15 / 1.00	22.5 / 1.00	33.5 / 1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SAGL-048	3/8"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.95	45 / 0.92	45 / 0.91	45 / 0.91	45 / 0.91	52.5 / 0.94	60 / 0.99	60 / 0.99	60* / 0.92	60* / 0.92	60* / 0.92	60* / 0.91	
	1/2"	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.95	45 / 0.92	45 / 0.91	45 / 0.91	45 / 0.91	52.5 / 0.94	60 / 0.93	60 / 0.93	60 / 0.92	60 / 0.92	60* / 0.92	60* / 0.91	
	3/8"	15 / 1.00	22.5 / 0.98	33.5 / 0.98	40 / 0.97	45 / 0.96	45 / 0.96	45 / 0.96	45 / 0.96	52.5 / 0.97	60 / 0.97	60 / 0.97	60* / 0.96	58* / 0.96	52* / 0.96	47* / 0.96	
SAGL-060/065	1/2"	15 / 1.00	22.5 / 0.98	33.5 / 0.98	40 / 0.97	45 / 0.96	45 / 0.95	45 / 0.95	45 / 0.95	52.5 / 0.97	60 / 0.97	60 / 0.96	60 / 0.96	60* / 0.96	60* / 0.96	60* / 0.96	
	3/8"	15 / 0.98	22.5 / 0.96	33.5 / 0.95	40 / 0.93	45 / 0.90	N/A	N/A	N/A	52.5 / 0.92	60* / 0.92	55* / 0.91	49* / 0.90	N/A	N/A	N/A	
	1/2"	15 / 0.98	22.5 / 0.96	33.5 / 0.95	40 / 0.93	45 / 0.90	45 / 0.89	45 / 0.89	45 / 0.89	52.5 / 0.92	60 / 0.92	60 / 0.91	60 / 0.90	60* / 0.90	60* / 0.90	60* / 0.89	
SAGL-060/065	3/8"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	N/A	N/A	N/A	52.5 / 0.97	60* / 0.96	55* / 0.96	49* / 0.95	N/A	N/A	N/A	
	1/2"	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.94	45 / 0.94	45 / 0.94	52.5 / 0.97	60 / 0.96	60 / 0.96	60 / 0.96	60* / 0.95	60* / 0.95	60* / 0.94	

Note: This chart is applicable for ODU with scroll compressor only.

- Use Oil Separator and Crank case heater. (Less than 45m vertical separation)
- Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV.
- Not Recommended
- \* Applications with asterisks (\*) require a minimum of 15m vertical separation.

Light Gray - (<45m vertical separation)  
Dark Gray  
Black

Condition	Total Equivalent Length (M)	Max. Vertical Separation (M)
A	3 ~ 45	<33.5
B	50.1 ~ 90	34 ~ 45
C	50.1 ~ 90	45.1 ~ 60

## Pipe Size Chart

Single Stage	Liquid Line Size	Suction Line Size	Outdoor Unit BELOW Indoor Unit											
			Equivalent Length in Meter											
			<15	15.5-22.5	23-30	30.5-37.5	38 - 45	45.5-52.5	53-60	61.5-67.5	68-75	75.6-82.5	83-90	
			Maximum vertical Separation / Capacity Multiplier											
SAGL-018	5/16"	5/8"	15/0.99	21.0/0.99	18/0.98	13.5/0.98	10.5/0.98	6/0.97	3/0.97	N/A	N/A	N/A	N/A	
	3/8"	5/8"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	18/0.96	15/0.95	
	5/16"	3/4"	15/1.00	21.0/1.00	18/1.00	13.5/1.00	10.5/0.99	6/0.99	3/0.99	N/A	N/A	N/A	N/A	
	3/8"	3/4"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	18/0.99	15/0.99	
SAGL-024	5/16"	5/8"	15/1.00	13.5/0.99	25/0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/8"	5/8"	15/1.00	22.5/0.99	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.95	24.5/0.94	24.5/0.94	9/0.94	3/0.93	
	5/16"	3/4"	15/1.00	13.5/1.00	25/1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/8"	3/4"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	9/0.98	3/0.98	
SAGL-030	5/16"	5/8"	12/09.8	3/0.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/8"	5/8"	15/0.98	22.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.94	24.5/0.93	24.5/0.93	15/0.92	N/A	
	5/16"	3/4"	12/1.00	3/0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/8"	3/4"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	15/0.97	N/A	
SAGL-036	5/16"	3/4"	10.5/1.00	10/0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/8"	3/4"	15/1.00	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	10/0.96	N/A	
	1/2"	3/4"	15/1.00	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/09.5	
	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	10/0.98	N/A	
SAGL-042	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.96	24.5/0.96	N/A	N/A	
	3/8"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.95	21.0/0.95	18/0.94	
	1/2"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.95	21.0/0.95	18/0.94	
	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	21.0/0.98	N/A	N/A	
SAGL-048	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	21.0/0.98	18/0.97	
	3/8"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	21.0/0.96	15/0.95	N/A	N/A	
	1/2"	3/4"	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	18/0.95	12/0.94	
	3/8"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	15/0.98	N/A	N/A	
SAGL-060/065	1/2"	7/8"	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	18/0.98	12/0.97	
	3/8"	3/4"	15/0.98	22.5/0.98	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	12/0.94	6/0.94	N/A	N/A	N/A	
	1/2"	3/4"	15/0.98	22.5/0.98	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	21.0/0.94	15/0.94	9/0.93	N/A	N/A	
	3/8"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	18/0.97	12/0.97	6/0.96	N/A	N/A	N/A	
	1/2"	7/8"	15/1.00	22.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	21.0/0.97	15/0.96	9/0.96	N/A	N/A	

Always Use the smallest Liquid Line allowable to keep system charge to a minimum

Areas in light grey shade requires long line set application (Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV).

Do not use line sets in areas shaded in Dark Grey

Vertical separation cannot Exceed 24.5 meter of length.

Note: This chart is applicable for ODU with scroll compressor only





## Model Identification

### Air Handling Unit

<u>S</u>	<u>H</u>	<u>L/S</u>	<u>L</u>	<u>HM</u>	<u>30</u>	<u>17</u>	<u>T</u>	<u>A</u>
RHEEM EXPORT 13 SEER	Air Handler	Air Handler L= High Efficiency (x-13 Motor) S = P S C Motor	REFRIGERANT L = R-410A	HM = A/C or H MULTI - POSITION (Vertical Upflow Horizontal left is the factory configuration)	CAPACITY 30 =18,000/24,000/30,000/BTU/H [5.27/7.0.3/8.79/kW] 42= 36,000/42,000/ BTU/H [10.55/12.31/kW] 60= 48,000/60,000/ BTU/H [14.06/17.58/kW] 65= 72,000BTU/H [21.12/kW]	CABINET SIZE 17= 17.5"[444.5MM] (600-1200 CFM) 21= 21" [533.4mm] (1400-1600 CFM) 24= 24.5"[622.3 mm] (1600-1800 CFM)	POWER T = 220/240/V 50 HZ-1PH	DESIGN VARIATION A = 1st Design

### Condensing Unit

<u>S</u>	<u>A</u>	<u>G</u>	<u>L</u>	<u>18</u>	<u>T/N</u>	<u>A</u>
RHEEM EXPORT 13 SEER	A = AIR CONDITONER	HERTZ (Hz) 50Hz Power	DESIGN SERIES L = R-410A	NOMINAL COOLING CAPACITY 18=18,000 BTU/HR [5.28 kW] Total 8 Models up to 65 = 72000 BTU/HR/21.12kW)	POWER T=220/240V-50HZ-1PH N=380/415V-50HZ-3PH	CABINET A= FULL METAL JACKET







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