

# RSG17\*\*S1R

## LE Series

### SPECIFICATIONS

#### Compressor

- High-efficiency scroll compressor
- R410A refrigerant
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation (optional accessory)

#### Cabinet

- Full metal louvered construction to protect the coil/hail protection
- Individual louver panels; for ease of coil cleaning and service
- Corner-mounted controls for easy service
- Baked polyester paint finished over galvanized steel for maximum durability
- 45-degree offset valves for easy service

#### Coils

- Total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design
- Lanced fins for maximum heat transfer
- Every coil factory tested for leakproof construction
- Raised coil prevents debris from impeding airflow

#### Components

- Factory installed high and low pressure switches
- Thread-on pressure switches with Schrader core for simple, quick replacement
- Filter drier shipped loose for installation flexibility
- Fan orifice for smoother airflow and sound level reduction
- Charged for 15 feet of line set

### SPLIT AIR CONDITIONER SYSTEM

#### Minimum Efficiencies:

≤ 45KBtu: 14.3 SEER2+

> 45KBtu: 13.8 SEER2+



For the latest AHRI system matches,  
please visit [www.marsdeliversratings.com](http://www.marsdeliversratings.com)  
or [AHRIdirectory.org](http://AHRIdirectory.org)

*Comfort-Aire*®

**Warranty**—12 years on compressor, 6 years on parts  
(Some limitations apply; see printed warranty for details.)

[www.comfort-aire.com](http://www.comfort-aire.com)

## MODEL NUMBER GUIDE

<b>R</b>	<b>S</b>	<b>G</b>	<b>17</b>	<b>24</b>	<b>S</b>	<b>1</b>	<b>R</b>
Residential Condenser	Split System	'Green' Gas R-410A	Minimum SEER	Capacity BTUH x 1000	S = Scroll Compressor	Power 1 = 208/230-1-60	Series/ Revision

## PHYSICAL AND ELECTRICAL DATA

Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over Current Device (amps)	Compressor		Outdoor Fan Motor		Nom. RPM
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	
RSG1718S1R	208-230/60/1	197-253	12.0	15	8.8	42.6	1.0	1/6	825
RSG1724S1R	208-230/60/1	197-253	15.4	20	11.7	59.5	0.7	1/8	1075
RSG1730S1R	208-230/60/1	197-253	18.4	25	14.1	71.3	0.7	1/8	1075
RSG1736S1R	208-230/60/1	197-253	17.4	30	13.1	83.1	1.0	1/6	825
RSG1741S1R	208-230/60/1	197-253	21.9	35	15.4	92.1	2.6	1/3	825
RSG1747S1R	208-230/60/1	197-253	27.5	35	19.9	110.0	2.6	1/3	825

Note: Weights listed are unit weights with packaging + Factory charged for 15 feet of line set. Adjust per installation instructions.

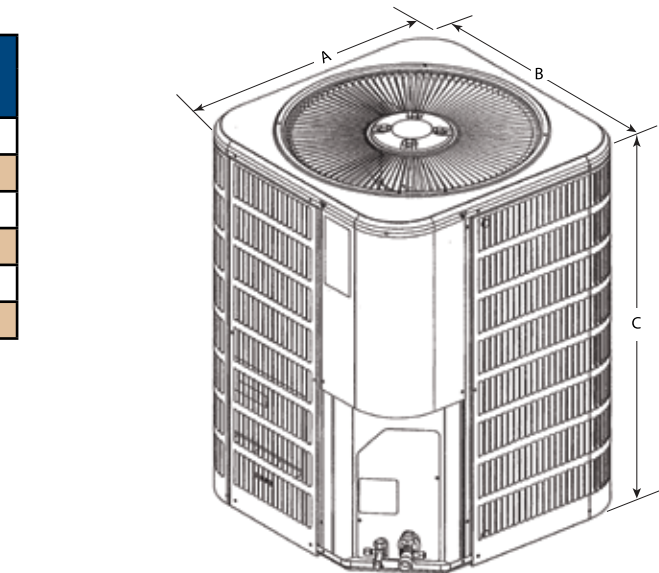
## UNIT DIMENSIONS

Model	Dimensions (inch)			Shipping Weight (Lbs.)
	A - Width	B - Depth	C - Height	
RSG1718S1R	28.25	28.25	29.25	155
RSG1724S1R	28.25	28.25	37.25	170
RSG1730S1R	28.25	28.25	29.25	180
RSG1736S1R	28.25	28.25	37.25	200
RSG1741S1R	32.25	32.25	33.25	225
RSG1747S1R	32.25	32.25	33.25	225

Note: Dimensions listed are unit sizes w/o packaging

## SOUND RATINGS

Model	Sound Power <sup>1</sup>	Estimated Sound Pressure (dBA) <sup>2</sup>		
		Approximate Distance <sup>3</sup>		
		3.3 Feet (1 Meter)	6.6 Feet (2 Meters)	9.8 Feet (3 Meters)
RSG1718S1R	73	65	59	55
RSG1724S1R	75	67	61	57
RSG1730S1R	76	68	62	58
RSG1736S1R	76	68	62	58
RSG1741S1R	76	68	62	58
RSG1747S1R	78	70	64	60



1 Rated in accordance with AHRI standard 270 (2015). AHRI Standard 270 establishes a method of rating outdoor unitary equipment in terms of Sound Power.

2 Rated in accordance with AHRI standard 275 (2018). AHRI Standard 275 provides the calculations for estimating the A-Weighted Sound Pressure at a given distance from the equipment. That is a more useful number because that is what humans will hear.

3 Based only on distance factor; other factors may change this value such as:

- Unit location (reflective surfaces adjacent to the unit)
- Barrier shielding sources
- Sound path/elevation
- Outside noise sources

## REFRIGERATION DATA

Model	Refrig. Charge (oz.) *	Piston Size	TXV	Refrigerant Line Size		Outdoor Unit Connection		Indoor Unit Connection	
				Suction	Suction	Suction	Suction	Suction	Liquid
RSG1718S1R	72	0.051	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
RSG1724S1R	82	0.059	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
RSG1730S1R	104	0.067	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
RSG1736S1R	136	0.072	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
RSG1741S1R	146	0.081	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
RSG1747S1R	157	N/A	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8

\*Factory charged for 15 feet of line set

\*\* Adapter shipped with unit

† TXV only

## PERFORMANCE WITH AIR HANDLERS

Outdoor Model	Air Handlers	SEER2	EER2	Capacity BTUH	AHRI Reference Numbers
RSG1718S1R	HMG24F1P+TXV	16	13	18,000	209546924
	HMG30F1P+TXV	14.7	12.2	18,000	209546925
	HMG24X1P	16.6	13.5	18,000	209546926
	HMG30X1P	16.2	13.5	18,000	209546927
	HMG24F1P	15.4	13	18,000	209548754
	HCG24V1P	16.6	13.5	18,000	209546824
	HCG30V1P	16.2	13.5	18,000	209546825
RSG1724S1R	HMG24F1P+TXV	15.6	13	23,600	209547095
	HMG30F1P+TXV	15.4	12.5	24,000	209547096
	HMG24F1P	15.4	13	23,200	209548809
	HMG30F1P	15.2	13	23,800	209548810
	HCG24V1P	16.2	13.5	24,000	209546987
	HCG30V1P	16.6	13.5	24,000	209546988
	HCG36V1P	16.6	13.5	24,000	209546989
RSG1730S1R	HMG30F1P+TXV	14.7	12.2	29,000	209547257
	HMG36F1P+TXV	15.6	13	29,600	209547258
	HMG30X1P	15.6	13	29,200	209547259
	HMG36X1P	15.8	13	29,600	209547260
	HMG36F1P	15.2	13	29,200	209548859
	HCG30V1P	16	13	29,600	209547180
	HCG36V1P	16	13	29,800	209547181
RSG1736S1R	HMG36F1P+TXV	15.2	13	36,000	209547439
	HMG42F1P+TXV	15.6	13	35,600	209547440
	HMG36X1P	15.6	13	36,000	209547441
	HMG42X1P	15.8	13.5	36,000	209547442
	HMG36F1P	14.7	12.2	36,000	209548887
	HMG42F1P	14.7	12.2	35,400	209548888
	HCG36V1P	15.8	13	36,000	209547335
HCG42V1P	16.2	13.5	36,000	209547336	
RSG1741S1R	HMG42F1P+TXV	14.8	12.2	40,500	209547559
	HMG48F1P+TXV	16	13	40,500	209547560
	HMG42X1P	15.6	12.5	40,500	209547561
	HMG48X1P	16	13	40,500	209547562
	HCG42V1P	16.2	13.5	40,500	209547497
	HCG48V1P	16.4	13.5	41,000	209547498
	HMG42F1P+TXV	14.7	12.2	44,000	209547693
RSG1747S1R	HMG48F1P+TXV	15.2	12.5	45,000	209547694
	HMG60F1P+TXV	15.4	13	46,000	209547695
	HMG48X1P	15.2	12.5	45,000	209547696
	HMG60X1P	15.4	13	46,000	209547697
	HCG42V1P	15.4	12.5	45,000	209547612
	HCG48V1P	15.4	13	45,500	209547613
	HCG60V1P	15.6	13	46,000	209547614

## ACCESSORIES

System Accessory	Where Used	Kit Number	Purpose
Liquid Line Solenoid	All models	60M52	Prevents liquid migration to the compressor especially for high liquid riser applications
Low Ambient (cooling operation)	All models	34M72	Enables cooling demand down to 30 °F. Will require freeze stat, CC heater and TXV
Compressor Short Cycle Protector	All models	47J27	Delays compressor start 5-7 minutes to prevent short cycling
Hard Start	Copeland	10J42	Scroll compressors usually do not require hard start; maybe needed for utility brown-out or low voltage areas
	LG	88M91	
Crankcase Heater	18, 24, 30, 36	93M04	Prevents liquid migration to compressor in cold weather
	41,47	Factory Installed	
Sound Cover	18, 24, 30, 36, 41	14W00	Lowers compressor sound level
	47	14W01	
<b>Additional System Accessories (indoor section)</b>			
TXV Kit	18, 24, 30	H4TXV01	TXVs provide superior refrigerant flow control, comfort and efficiency compared to pistons
	36, 41	H4TXV02	
Outdoor Thermostat - Electric Heat	All models	10Z23	Prevents electric heat operation above specific ambient conditions
Outdoor Thermostat - Mounting Box	All models	31461	Mounting box for outdoor thermostat
Freezestat	All models	93G35	Protects the compressor at low suction pressure conditions
Overflow Switch	All models	11U75	Turn the system off, if condensate water overflows due to clogged drain pipes
Blower Time Delay	All models	58M81	Improves system efficiency and comfort
Single Point Power Supply	All models	21H39	Provide single power source in one junction box
Auxiliary Blower Relay	All models	85W66	Maybe required to select multiple indoor blower speeds



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