

# RSG15\*\*S1R

## 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

*Comfort-Aire*<sup>®</sup>

## 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)

**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>15</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	
RSG1518S1R	208-230/60/1	197-253	12.0	15	8.8	42.6	1.0	1/6	825
RSG1524S1R	208-230/60/1	197-253	15.4	20	11.7	59.5	0.7	1/8	1075
RSG1530S1R	208-230/60/1	197-253	18.4	25	14.1	71.3	0.7	1/8	1075
RSG1536S1R	208-230/60/1	197-253	17.4	30	13.1	83.1	1.0	1/6	825
RSG1542S1R	208-230/60/1	197-253	24.6	35	18.6	110.0	1.4	1/4	825
RSG1548S1R	208-230/60/1	197-253	33.0	50	25.0	120.0	1.7	1/4	825
RSG1560S1R	208-230/60/1	197-253	31.3	50	23.9	124.5	1.4	1/4	825

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

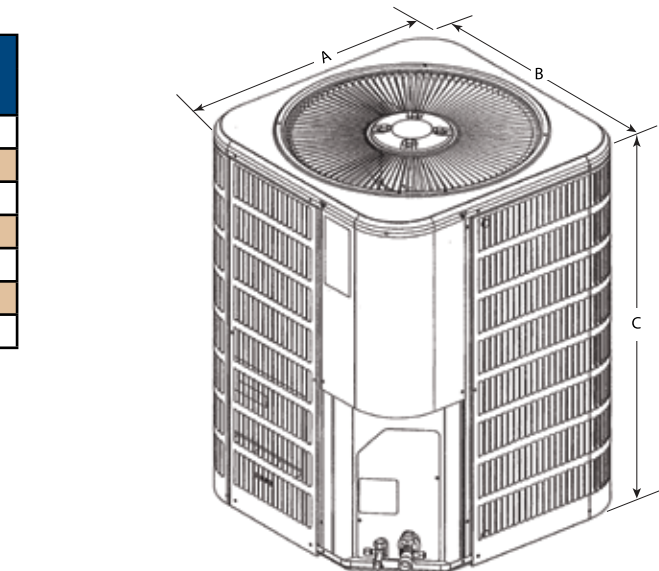
## UNIT DIMENSIONS

Model	Dimensions (inch)			Shipping Weight (Lbs.)
	A - Width	B - Depth	C - Height	
RSG1518S1R	28.25	28.25	29.25	155
RSG1524S1R	28.25	28.25	37.25	170
RSG1530S1R	28.25	28.25	29.25	180
RSG1536S1R	28.25	28.25	37.25	200
RSG1542S1R	32.25	32.25	33.25	225
RSG1548S1R	28.25	28.25	43.25	230
RSG1560S1R	32.25	32.25	43.25	260

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)
RSG1518S1R	73	65	59	55
RSG1524S1R	75	67	61	57
RSG1530S1R	76	68	62	58
RSG1536S1R	76	68	62	58
RSG1542S1R	76	68	62	58
RSG1548S1R	78	70	64	60
RSG1560S1R	80	72	66	62



- 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
RSG1518S1R	72	0.051	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
RSG1524S1R	82	0.059	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
RSG1530S1R	104	0.067	H4TXV01	3/4	3/8	3/4	3/8	3/4	3/8
RSG1536S1R	136	0.072	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
RSG1542S1R	146	0.081	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
RSG1548S1R	152	0.084	H4TXV02	7/8	3/8	7/8	3/8	7/8	3/8
RSG1560S1R	200	0.092	H4TXV03	1-1/8	3/8	1-1/8	3/8	7/8	3/8

\*Factory charged for 15 feet of line set

\*\* Adapter shipped with unit

† TXV only

## PERFORMANCE AIR HANDLERS

Outdoor Model	Air Handlers	SEER2	EER2	Capacity BTUH	AHRI Reference Numbers
RSG1518S1R	HMG24F1P	16	13	18,000	209547796
	HMG24F1P+TXV	16.6	13.5	18,000	209545397
	HMG24X1P	15.4	13	18,000	209547799
	HCG24V1P	16.6	13.5	18,000	209545337
	HMG30X1P	16.2	13.5	18,000	209545400
	HCG30V1P	16.2	13.5	18,000	209545338
RSG1524S1R	HMG24F1P+TXV	15.6	13	23,600	209545570
	HMG30F1P+TXV	15.4	12.5	24,000	209545572
	HMG24F1P	15.4	13	23,200	209547937
	HMG30F1P+TXV	15.2	13	23,800	209547938
	HCG24V1P	16.2	13.5	24,000	209545463
	HCG30V1P	16.6	16.5	24,000	209545464
RSG1530S1R	HCG36V1P	16.6	13.5	24,000	209545465
	HMG30F1P+TXV	14.7	12.2	29,000	209545857
	HMG36F1P+TXV	15.6	13	29,600	209545858
	HMG30X1P	15.6	13	29,200	209545859
	HMG36X1P	15.8	13	29,600	209545860
	HMG36F1P+TXV	15.2	13	29,200	209548154
RSG1536S1R	HCG30V1P	16	13	29,600	209545695
	HCG36V1P	16	13	29,800	209545696
	HMG36F1P+TXV	15.2	13	36,000	209546196
	HMG42F1P+TXV	15.6	13	35,600	209546197
	HMG36X1P	15.6	13	36,000	209546198
	HMG42X1P	15.8	13.5	36,000	209546199
	HMG36F1P+TXV	14.7	12.2	36,000	209548439
	HMG42F1P+TXV	14.7	12.2	35,400	209548440
RSG1542S1R	HCG36V1P	15.8	13	36,000	209545996
	HCG42V1P	16.2	13.5	36,000	209545997
	HMG42F1P+TXV	14.4	12.2	42,000	209546473
	HMG48F1P+TXV	15.4	13	42,000	209546474
	HMG48F1P+TXV	14.7	12.2	41,500	209548605
	HCG42V1P	15.6	13	42,000	209546329
RSG1548S1R	HCG48V1P	15.8	13	42,000	209546330
	HMG48F1P+TXV	14.4	12	46,500	209546689
	HMG60F1P+TXV	14.7	12.2	57,500	209546690
	HMG48X1P	14.4	12	46,500	209544691
	HMG60X1P	14.7	12.2	47,500	209546692
	HMG48F1P+TXV	13.8	12	46,000	209548717
	HMG60F1P+TXV	13.8	12.2	47,000	209548718
	HCG48V1P	14.7	12.2	47,000	209546560
RSG1560S1R	HCG60V1P	14.7	12.2	47,000	209546561
	HMG48F1P+TXV	13.8	11.7	56,000	209546775
	HMG60F1P+TXV	13.8	12	57,500	209546776
	HMG60X1P	13.8	12	57,500	209546777
	HCG48V1P	13.8	11.7	57,000	209546727
HCG60V1P	13.8	11.7	58,000	209546728	

## 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, 42	93M04	Prevents liquid migration to compressor in cold weather
	60	Factory Installed	
Sound Cover	18, 24, 30, 36	14W00	Lowers compressor sound level
	42, 48, 60	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, 42, 48	H4TXV02	
	60	H4TXV03	
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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“This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65.”