

RSG16**S1M

SPECIFICATIONS

Compressor

- High-efficiency 2 stage Copeland
- UltraTech™ scroll compressor
- R410a refrigerant
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

Cabinet

- Full metal louvered panels remove for easy coil cleaning and service
- Controls located in corner post for easy installation and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC-coated wire fan discharge grill
- External gauge ports for easy service

Coils

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

Design

- Designed for ambients up to 125°F
- All units ETL and ETL C approved and AHRI listed

Components

- Service valves positioned for quick installation and easy service
- High and low pressure switches factory installed
- Comfort Alert 2™ diagnostics is factory installed
- Trade available component
- Factory installed crank case heater
- Charged for 15 ft. of line set



SPLIT AIR CONDITIONER SYSTEM

16 SEER



For the latest AHRI system matches,
please visit www.marsdeliversratings.com
or AHRIdirectory.com

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

www.marsdelivers.com

MODEL NUMBER GUIDE

R	S	G	16	24	S	1	M
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

ELECTRICAL AND PHYSICAL DATA

Model	Voltage/ Hz/ Phase	Voltage Range	Min. Circuit (Amps)	Max. Fuse (Amps) ₁	Compressor		Fan Motor			Refrig. Charge (oz.) ₂	Weight (lbs.) Louvered
					Rated Load (Amps)	Locked Rotor (Amps)	Full Load (Amps)	Rated HP	Nom. RPM		
RSG1624S1M	230/60/1	197 - 253	13.9	20	11.4	52.0	1.1	1/5	1075	117	200
RSG1636S1M	230/60/1	197 - 253	21.9	35	19.0	82.0	1.1	1/6	825	137	230
RSG1648S1M	230/60/1	197 - 253	28.1	45	24.0	96.0	1.1	1/6	825	180	262
RSG1660S1M	230/60/1	197 - 253	33.8	55	26.0	118.0	1.7	1/4	825	214	310

¹ Factory charged for 15 feet of line set. Adjust per installation instructions.

² Weights listed are unit weights with packaging

COOLING PERFORMANCE EXTENDED RATINGS

Outdoor Model	Indoor Temp DB/WB °F	Outdoor Temp - DB°F														
		65			82			95			105			115		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
RSG1624S1M	85/72	27,000	.67	1.43	26,500	.68	1.70	25,000	.72	1.93	23,600	.73	2.38	22,200	.76	2.59
	80/67	26,000	.70	1.40	25,500	.71	1.67	24,000	.75	1.90	22,600	.76	2.35	21,200	.79	2.56
	75/63	25,000	.73	1.37	24,500	.74	1.64	23,000	.78	1.87	21,600	.79	2.32	20,200	.82	2.53
RSG1636S1M	85/72	40,200	.66	1.76	38,200	.68	2.31	36,400	.69	2.98	35,000	.71	3.28	33,000	.74	3.69
	80/67	39,200	.69	1.73	37,200	.71	2.28	35,400	.72	2.95	34,000	.74	3.25	32,000	.77	3.66
	75/63	38,200	.72	1.70	36,200	.74	2.25	34,400	.75	2.92	33,000	.77	3.22	31,000	.80	3.63
RSG1648S1M	85/72	55,400	.68	2.93	52,000	.71	3.43	49,500	.72	3.89	48,000	.73	4.23	45,800	.75	5.53
	80/67	53,400	.71	2.90	50,000	.74	3.40	47,500	.75	3.86	46,000	.76	4.20	43,800	.78	5.50
	75/63	51,400	.74	2.87	48,000	.77	3.37	45,500	.78	3.83	44,000	.79	4.17	41,800	.81	5.47
RSG1660S1M	85/72	61,000	.64	3.82	60,000	.65	4.49	59,000	.68	5.11	55,000	.69	5.66	52,000	.72	6.30
	80/67	59,000	.67	3.79	58,000	.68	4.46	57,000	.71	5.08	53,000	.72	5.63	50,000	.75	6.27
	75/63	57,000	.70	3.76	56,000	.71	4.43	55,000	.74	5.05	51,000	.75	5.60	48,000	.78	6.24

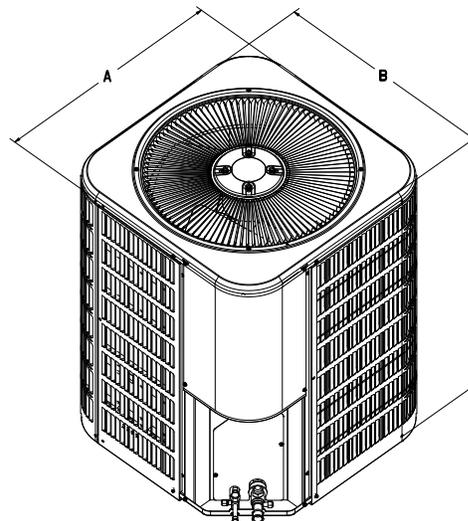
All ratings are with required indoor variable speed matches.

Extended data shown is actual for models listed and typical for all AHRI matches.

UNIT DIMENSIONS & SOUND RATINGS

Model	Dimensions			Sound Ratings (dBa)
	A - width (in.)	B - depth (in.)	C - height (in.)	
RSG1624S1M	26-3/4	24-3/4	29-3/4	74
RSG1636S1M	31-1/4	29-3/8	29-3/4	74
RSG1648S1M	31-1/4	29-3/8	37-3/4	76
RSG1660S1M	31-1/4	29-3/8	43-3/4	76

Note: Dimensions listed are unit sizes w/o packaging



PERFORMANCE WITH COILS, AIR HANDLERS AND FURNACES

Outdoor Model	Indoor Model	Cooling			
	Evap. Coil Air Handlers ¹	SEER	EER	AHRI Capacity ²	AHRI Reference Numbers
RSG1624S1M	HMG24X1P	14.5	12.2	24,000	204580598
	HMG30X1P	15.5	12.5	24,000	204580599
	HCG24V1P	15.1	12.2	24,000	204543642
	HCG30V1P	15.5	12.5	24,000	204543643
	HCG24V1M	15	12.2	24,000	202120920
RSG1636S1M	HMG36X1P	15.1	12.2	36,000	204580600
	HMG42X1P	15.5	12.5	36,000	204580610
	HCG36V1P	15.5	12.2	36,000	204543640
	HCG42V1P	16	13	36,000	204543641
	HCG36V1M	15	12.2	34,000	202120922
	HCG42V1M	15	12.2	34,000	202120924
RSG1648S1M	HMG48X1P	15.5	11.7	46,500	204580601
	HMG60X1P	16	12.2	47,000	204580602
	HCG48V1P	16	12	46,500	204543645
	HCG60V1P	16	12.2	47,500	204543646
	HCG60V1M	15	12.2	47,000	202120926
RSG1660S1M	HMG60X1P	15.1	12.2	59,000	204580603
	HCG60V1P	16	12	59,000	204543644
	HCG60V1M	15	12.2	56,500	202120928

Note: ¹A blower time delay relay is required to achieve AHRI rating. This feature is standard on all furnaces and AH products

²Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240

ACCESSORIES

DESCRIPTION	WHERE USED	KIT NUMBER
Compressor Low Ambient Cut-off	All RSG16**S1M	45F08
Freezestats (3/8")	All RSG16**S1M	93G35
Freezestats (1/2")	All RSG16**S1M	39H29
Freezestats (5/8")	All RSG16**S1M	50A93
Time Off Control	All RSG16**S1M	47J27
Crank Case Heater	All RSG16**S1M	93M06
Hard Start Kit 2 - 3 ton	RSG24**S1M	63W22
	RSG36**S1M	63W23
Hard Start Kit 4 - 5 ton	RSG48**S1M	81J69
	RSG60**S1M	63W24
Low Ambient	All RSG16**S1M	34M72

REFRIGERATION DATA

Model	Refrig. Charge (oz.) *	Refrigerant Line Size		Outdoor Unit Connection	
		Suction	Liquid	Suction	Liquid
RSG1624S1M	117	3/4	3/8	3/4	3/8
RSG1636S1M	137	7/8	3/8	7/8	3/8
RSG1648S1M	180	7/8	3/8	7/8	3/8
RSG1660S1M	214	1-1/8	3/8	7/8	3/8

*Factory charged for 15 feet of line set

** Indoor Unit Connection size is based on which coil or air handler you are using



"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."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations. Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.