

COOLING PERFORMANCE WITH AIR HANDLERS AND FURNACES

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity ³ BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size	
	Evaporator Coil ¹ or Air Handler ¹	Vairable Speed Furnace ²						Outdoor		Indoor		Suction	Liquid
								Suction	Liquid	Suction	Liquid		
RSG1648S1M	HCG48V1M		15.5	12.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T090C5M	16	11.4	44500	36480.07	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T090C5M	16	11.5	45000	36855.5	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60PC1M + TXV	GUH95T090C5M	16	11.4	45000	36045.34	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60TC2M	GUH95T090C5M	16.5	11	45500	37305.23	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T110C5M	16	11.4	44500	36480.07	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T110C5M	16	11.5	45000	36855.5	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60PC1M + TXV	GUH95T110C5M	16	11.4	45000	36045.34	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60PC1M + TXV	GUH95T110C5M	16	11.5	45000	36119.77	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60TC2M	GUH95T110C5M	16.5	11	45500	37305.23	1600	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60TD2M	GUH95T135D5M	16	11	45500	37305.23	1600	7/8	3/8	7/8	3/8	7/8	3/8
RSG1660S1M	HCG60V1M		14.5	11.0	57000	42800	1800	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60TC2M	GUH95T090C5M	16	11	54000	42716.78	1800	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60TC2M	GUH95T110C5M	16	11	54000	42716.78	1800	7/8	3/8	7/8	3/8	7/8	3/8
	MCG60TD2M	GUH95T135D5M	16	11.6	54000	42716.78	1800	7/8	3/8	7/8	3/8	7/8	3/8

Note:

1 Evaporator coils and air handlers are equipped with TXVs from the factory.

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

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

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.

ACCESSORIES

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



RSG16**S1M

Split System Air Conditioner
16 SEER

- 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 ETLC 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

WARRANTY

Standard warranty or Extended warranty available with product registration. See warranty document for details or visit www.marsdelivers.com

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Comfort-Aire is a registered trademark of Motors & Armatures, Inc.

SP-5C 6/17 CA-RSG16M_SPEC

1900 Wellworth Ave., Jackson MI 49203 • 517.787.2100 • 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

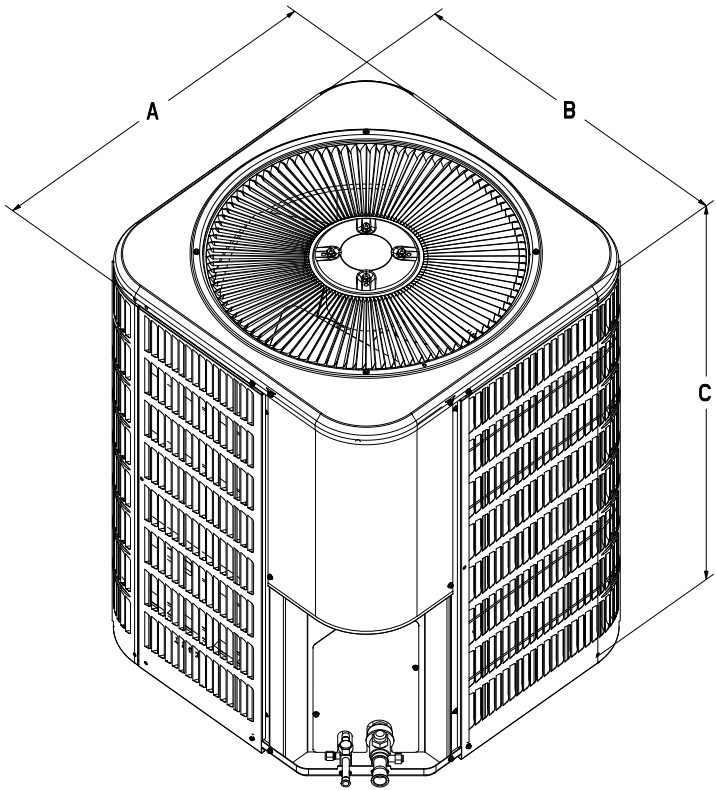
PHYSICAL AND ELECTRICAL

Model	Voltage/Hz/ Phase	Voltage Range	Min. Circuit Amp.	Max. Over current Device (amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated 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

Note: For applications below 230V, use of a Hard Start Kit is recommended.

DIMENSIONS (IN.)

Model No.	A	B	C
RSG1624S1M	26-3/4	24-3/4	29-3/4
RSG1636S1M	31-1/4	29-3/8	29-3/4
RSG1648S1M	31-1/4	29-3/8	37-3/4
RSG1660S1M	31-1/4	29-3/8	43-3/4



SOUND RATINGS

Model No.	Sound Rating dBA
RSG1624S1M	74
RSG1636S1M	74
RSG1648S1M	76
RSG1660S1M	76

COOLING PERFORMANCE WITH EVAPORATOR COILS

Outdoor Model	Indoor Model	SEER	EER	AHRI Rated Capacity ² BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size						
	Evaporator Coil ¹						Outdoor		Indoor		Suction	Liquid					
							Suction	Liquid	Suction	Liquid							
RSG1624S1M	There are no coil only ratings for these 2 models.																
RSG1636S1M																	
RSG1648S1M	MCG48TC2M	14.5	11.5	45000	36800	1600	7/8"	3/8"	7/8"	3/8"	7/8"	3/8"					
	MCG48TD2M	14.5	11.5	45000	36800	1600	7/8"	3/8"	7/8"	3/8"	7/8"	3/8"					
	MCG60TC2M	15	11	54000	42500	1800	7/8"	3/8"	7/8"	3/8"	7/8"	3/8"					
	MCG60TD2M	15	11	54000	42500	1800	7/8"	3/8"	7/8"	3/8"	7/8"	3/8"					
RSG1660S1M	MCG60TC2M	15	11	54000	42500	1800	7/8"	3/8"	7/8"	3/8"	1-1/8"	3/8"					
	MCG60TD2M	15	11	54000	42500	1800	7/8"	3/8"	7/8"	3/8"	1-1/8"	3/8"					

Note:
1 Evaporator coils are equipped with TXVs from the factory.
2 Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240.



COOLING PERFORMANCE WITH AIR HANDLERS AND FURNACES

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity³ BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size	
	Evaporator Coil¹ or Air Handler¹	Vairable Speed Furnace²						Outdoor		Indoor		Suction	Liquid
								Suction	Liquid	Suction	Liquid		
RSG1624S1M	HCG24V1M		15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8
	HCG36V1M		15.5	12.5	24,000	18,000	800	3/4	3/8	7/8	3/8	3/4	3/8
	MCG24TB2M	GUH95T070B3M	16	12	22400	18306	800	3/4	3/8	3/4	3/8	3/4	3/8
	MCG30PB2M + TXV	GUH95T070B3M	16	12.2	23200	18855.42	800	3/4	3/8	3/4	3/8	3/4	3/8
	MCG24TC2M	GUH95T090C3M	16	12	22400	18306	800	3/4	3/8	3/4	3/8	3/4	3/8
	MCG30PC2M + TXV	GUH95T090C3M	16	12.2	23200	18855.42	800	3/4	3/8	3/4	3/8	3/4	3/8
RSG1636S1M	HCG36V1M		16	12.5	34400	25800	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG36TC2M	GUH95T090C3M	16	12	33600	27457.14	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG42PC2M + TXV	GUH95T090C3M	16	12	34000	27929.45	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG42PC2M + TXV	GUH95T090C3M	16	12	34400	28102.87	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T090C3M	16	12.3	34800	28280.34	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T090C3M	16	12	34400	28231.93	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T090C3M	16	12.2	34600	28317.31	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T090C3M	16	12.3	35200	28568.98	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG36TC2M	GUH95T090C5M	16	11.9	33200	27286.45	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG42PC2M + TXV	GUH95T090C5M	16.5	12	34000	27929.45	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T090C5M	16.5	12	34400	28231.93	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T090C5M	16.5	12.2	34600	28317.31	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG36TC2M	GUH95T110C5M	16	12	33600	27457.14	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG42PC2M + TXV	GUH95T110C5M	16	12	34400	28102.87	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG42PC2M + TXV	GUH95T110C5M	16	12	34000	27929.45	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T110C5M	16	12.3	34800	28280.34	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48PC1M + TXV	GUH95T110C5M	16	12	34400	28231.93	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T110C5M	16	12.3	35200	28568.98	1200	7/8	3/8	7/8	3/8	7/8	3/8
	MCG48TC2M	GUH95T110C5M	16	12.2	34600	28317.31	1200	7/8	3/8	7/8	3/8	7/8	3/8

Note:
1 Evaporator coils and air handlers are equipped with TXVs from the factory.
2 A blower time delay relay is required to achieve AHRI rating. This feature is standard on all furnaces and AH products.
3 Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240.