HRG16**S1M

SPECIFICATIONS

Compressor

- High-efficiency 2 stage Copeland UltraTechTM scroll compressor
- R410a refrigerant
- Grommet-mounted compressor for guiet operation
- Internally protected against high temperature motor overload conditions

Cabinet

- Full metal louvered panel coil guard protection
- 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
- Raised base pan with ports allows for excellent water and debris drainage

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

- Full metal louvered panels remove for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- Factory installed crank case heater
- Advanced design defrost system featuring a smart logic for power consumption savings
- 45 degree offset valves for easy service
- Comfort Alert 2 diagnostics factory installed
- Reliable, solid state defrost control
- Units are capable of reducing noise during defrost

Factory Installed Accessories

- Crank case heater
- Compressor sound cover for quiet operation
- High pressure switch
- Low pressure switch for loss of charge protection

SPLIT SYSTEM HEAT PUMP

16 SEER









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



MODEL NUMBER GUIDE

Н	R	G	16	24	S	1	M
Heat Pump	Residential Split	'Green' Gas R-410A	SEER 16	Capacity BTUH x 1000	S = Scroll Compressor	Power 1 = 208/230-1-60	Series/ Revision

PHYSICAL AND ELECTRICAL DATA

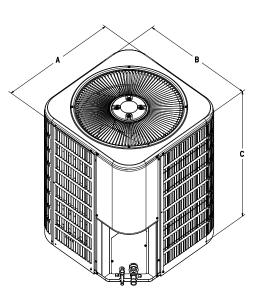
			Max. Over Compressor				Out	door Fan M	otor		
Model	Voltage/ Hz/ Phase	Voltage Range	Min. Circuit Amp.	Current Device (amps)	Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	Refrig. Charge¹ (oz.)	Sound Rating dBA
HRG1624S1M	208-230-60/1	197-253	13.5	20	11.4	52	0.7	1/10	1075	146	73
HRG1636S1M	208-230-60/1	197-253	22.5	35	19.0	82	1.7	1/4	825	192	75
HRG1648S1M	208-230-60/1	197-253	28.2	45	24.0	96	1.8	1/3	825	236	75
HRG1660S1M	208-230-60/1	197-253	35.1	60	26.0	118	2.8	1/3	ECM	244	74

Note:

UNIT DIMENSIONS & WEIGHT

Model	D	Shipping			
Model	A - Width	B - Depth	C - Height	Shipping Weight (lbs.)²	
HRG1624S1M	24-3/4	26-3/4	33-3/4	207	
HRG1636S1M	29-3/8	31-1/4	37-3/4	253	
HRG1648S1M	35-3/4	37-3/4	37-3/4	288	
HRG1660S1M	35-3/4	37-3/4	43-3/4	313	

Note:



ACCESSORIES

Description	Where Used	Kit Number					
Hand Chart I/2	24 & 36	10J42					
Hard Start Kit	48 & 60	81J69					
Compressor Low Ambient Kit	All Models	45F08					
Freezestat	All Models	93G35					
Outdoor Thermostat	All Models	1.841188					
Fossil Fuel Kit	All Models	1.841185					
Low Pressure Switch							
High Pressure Switch	Factory installed; see spare parts list						
Sound Blanket							
Crankcase Heater							
Relay Kit - Constant Torque	All Constant Torque Furnaces	85W66					
	18, 24, 30	H4TXV01					
	36, 42, 48	H4TXV02					
TXV	60	H4TXV03					
	18, 24, 30, 36	4200					
	42, 48, 60	4202					

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

¹ Dimensions listed are unit sizes w/o packaging

² Weights listed are unit weights with packaging

PERFORMANCE WITH COILS, AIR HANDLERS AND FURNACES

_	Indoor Model			Cooling			Heating			
Outdoor Model	From Oall				AUDI Deference		47°	17°		
ō -	Evap. Coil Air Handlers¹	SEER	EER	AHRI Capacity ²	AHRI Reference Numbers	HSPF	Btuh	Btuh		
1	HCG36V1M	14	12.2	22,800	202120938	8.2	23,000	14,000		
62481	HMG30X1P	14.6	12.5	24,000	205730507	8.2	22,200	14,000		
_	HCG30V1P	15.5	12.5	24,000	205730508	8.2	22,200	14,000		
HRG	HCG6V1P	15.5	12.5	24,000	205730510	8.2	21,800	13,800		
9	HCG42V1M	15	12.5	36,000	202120939	8.5	36,000	22,000		
3	HCG48V1P	15.5	12.2	36,000	205730511	8.2	33,600	21,800		
l	HCG48V1M	15	12.2	47,000	202120940	8.2	46,000	30,000		
S1M	HCG60V1M	15	12.2	47,000	202120941	8.2	46,000	30,000		
648S1	HCG48V1P	16	12.5	47,000	205730514	8.5	42,000	27,000		
HRG1	HMG60X1P	15.5	12.2	46,500	205730513	8.5	43,000	28,000		
▎ቖ▕	HCG60V1P	15.5	12.2	47,000	205730516	8.5	43,00	28,000		
90	HCG60V1M	16	12.2	58,000	202120942	8.5	53,000	33,000		

Note:

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

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

³ Required to achieve AHRI rating.

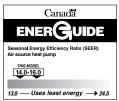
HRG16S1M**



HEATING PERFORMANCE EXTENDED RATINGS

Outdoor Model			Outdoor Temp - DB/WB °F										
	Indoor Model	Indoor Temp	0/0		17/15		35/33		47/43		62/56		
	ous.		Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	
HRG1624S1M	HCG24V1M	70	12,361	1.64	15,100	1.83	18,000	2.03	24,500	2.17	29,200	2.34	
HRG1636S1M	HCG36V1M	70	15,811	2.04	22,800	2.49	30,200	2.97	40,600	3.55	49,500	4.08	
HRG1648S1M	HCG48V1M	70	28,561	3.32	31,300	3.49	34,200	3.67	46,900	3.59	54,700	3.64	
HRG1660S1M	HCG60V1M	70	36,783	4.04	39,900	4.17	43,200	4.31	60,300	4.73	70,500	5.01	





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.

"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."



