



16 SEER HEAT PUMPS FOR R-410A



HRG16 SERIES 2 to 5 Tons



The HRG Series of high efficiency heat pumps comes charged with R-410A, an environmentally friendly refrigerant

Rated up to 16 SEER and 9 HSPF when matched with a Comfort-Aire air handler—see AHRI Directory

- **Copper tube/aluminum fin coils** are designed for optimal heat transfer while minimizing size and weight
- **Full metal jacket** of galvanized steel with a polyester urethane finish protects the coil while adding to the attractive appearance; vertical slot configuration adds to jacket stability
- **Advanced scroll compressor** has two stages of heating and cooling capacities for optimum comfort with virtually silent operation; designed for reliability and long life
- **Demand defrost** saves energy in heating mode by defrosting only when necessary
- **High pressure switch** protects against excessively high system pressures; low pressure switch protects the compressor
- **Liquid line filter-drier** is included for field installation
- **Restart time delay** eliminates common cause of compressor failures
- **Composite base pan** is stronger and lighter than steel, resists corrosion and absorbs sound
- **Common suction service port** lets contractor read suction pressure without removing any panels
- **Heavy duty grille assembly** makes it easy to access components from top for service without disconnecting fan motor,
- **Compressor and control access** is conveniently located on the side of the unit to speed installation and service

Outstanding Limited Warranty Coverage—12 years compressor, 12 years other parts!

With registration within 90 days by original owner; other limitations apply: see printed warranty for details.



PERFORMANCE DATA—AHRI STANDARD CONDITIONS

INDOOR/OUTDOOR MATCHES			COOLING PERFORMANCE			HEATING CAP. BTUH @ 47° F	HSPF	NOM. AIR FLOW SCFM
INDOOR TYPE	OUTDOOR MODEL	INDOOR COIL MODEL	CAPACITY (BTUH)	EFFICIENCY				
			TOTAL	SEER	EER			
VARIABLE SPEED AIR HANDLER	HRG1636S1E	HCG36V1E	36,000	16.0	12.5	36,000	9.0	1250
	HRG1648S1E	HCG48V1E	48,000	16.0	12.5	46,000	9.0	1700
	HRG1660S1E	HCG60V1E	55,000	16.0	11.65	52,500	8.5	1800
UPFLOW CASED COIL	HRG1624S1E	VCG24TA2E, -24B2E	23,000	15.5	12.0	23,400	8.8	800
	HRG1636S1E	VCG36TB2E, -36TC2E	35,200	16.0	12.3	36,000	8.6	1200
		VCG48TB2E, -48TC2E, -48TD2E	36,000	16.0	12.5	36,200	8.7	1200
	HRG1648S1E	VCG48TB2E, -48TC2E, -48TD2E	46,000	15.5	12.4	43,000	8.5	1600
		VCG60TC2E, -60TD2E	47,000	15.5	12.5	43,000	8.6	1600
HRG1660S1E	VCG60TC2E, -60TD2E	57,500	16.5	11.0	52,000	8.6	2000	
MULTI- POSITION CASED COIL	HRG1624S1E	MCG24TA2B, -24B2E	23,000	15.5	12.0	23,400	8.8	800
	HRG1636S1E	MCG36TB2E, -36TC2E	35,200	16.0	12.3	36,000	8.6	1200
		MCG48TB2E, -48TC2E, -48TD2E	36,000	16.0	12.5	36,200	8.7	1200
	HRG1648S1E	MCG48TB2E, -48TC2E, -48TD2E	46,000	15.5	12.4	43,000	8.5	1600
		MCG60TC2E, -60TD2E	47,000	15.5	12.5	43,000	8.6	1600
HRG1660S1E	MCG60TC2E, -60TD2E	57,500	16.5	11.0	52,000	8.6	2000	
UPFLOW/ DOWNFLOW UNCASED COIL	HRG1624S1E	CCG24TA2E, -24B2E	23,000	15.5	12.0	23,400	8.8	800
	HRG1636S1E	CCG36TB2E, -36TC2E	35,200	16.0	12.3	36,000	8.6	1200
		CCG48TB2E, -48TC2E, -48TD2E	36,000	16.0	12.5	36,200	8.7	1200
	HRG1648S1E	CCG48TB2E, -48TC2E, -48TD2E	46,000	15.5	12.4	43,000	8.5	1600
		CCG60TC2E, -60TD2E	47,000	15.5	12.5	43,000	8.6	1600
HRG1660S1E	CCG60TC2E, -60TD2E	57,500	15.3	11.0	52,000	8.6	2000	

NOTE: Efficiencies vary by equipment used for air delivery. See the current AHRI Directory for all certified combinations and ratings: www.ahridirectory.org

Coil Model	Cased Coil	Uncased Coil
XCGX A	14" width	13" width
XCGX B	17 ¹ / ₂ " width	16" width
XCGX C	21" width	19 ¹ / ₂ " width
XCGX D	24 ¹ / ₂ " width	23" width

MODEL NOMENCLATURE

H	R	G	16	24	S	1	E
Heat Pump	Residential Split	'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	HRG1624	HRG1636	HRG1648	HRG1660
Power Supply	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Total Amps	11.4	17.9	24.0	25.9
Delay Fuse Max.*	20	35	50	50
Min. Circ. Ampacity	14.0	22.1	29.3	31.7
Coil Area Sq. Ft.	25.4	25.4	25.4	25.4
Coil Rows-FPI	1-20	2-18	2-18	2-18
Coil Tube Diameter OD	3/8"	3/8"	3/8"	3/8"
Fan Motor Type	PSC	PSC	BLDC	BLDC
Fan Motor Speeds	2	2	2	2
Fan Motor Amps	1.3	1.3	2.9	2.9
Fan HP	1/4	1/4	1/3	1/3
Fan SCFM	3600	4000	4000	4000
Compressor RLA	10.3	16.6	21.1	23.0
Compressor LRA	52	82	96	118
Sound Ratings dB	70	73	73	75

*HACR type circuit breaker may be used

LINE SIZES (in.) and COMPRESSOR

MODEL	CONNECTION SIZE (inch ODA Female)		STANDARD LINE SIZE (in. OD)			COMPRESSOR TYPE
	LIQUID	SUCTION	LIQUID	SUCTION		
				0' to 24'	25' to 75'	
HRG1624S1E	3/8	3/4	3/8	3/4	7/8	Scroll, two stage
HRG1636S1E	3/8	7/8	3/8	7/8**	1-1/8*	Scroll, two stage
HRG1648S1E	3/8	7/8	3/8	7/8	1-1/8*	Scroll, two stage
HRG1660S1E	3/8	7/8	3/8	7/8	1-1/8*	Scroll, two stage

NOTE: Unit comes charged for 15' line set. Additional charge needed for longer line set lengths, as well as suction line size variations, see IOM.

**Requires 1-1/8" to 7/8" reducer from line to unit.*

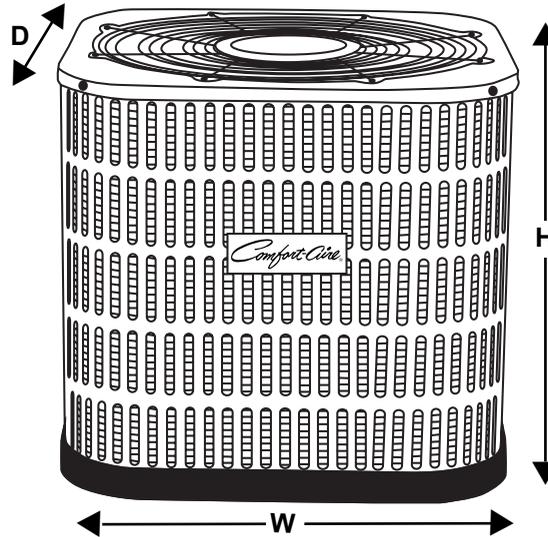
***Use of 3/4" line set will result in approx. 2% loss in capacity.*

ACCESSORIES

PART NO.	DESCRIPTION
912933	Start Assist Kit—provides additional starting torque when operating with lowline voltage or high operating temperatures
920636	Snow Stand Kit
920900	Extreme Wind Condition Mounting Kit

UNIT DIMENSIONS (inches)

DIMENSION	HRG1624S1E	HRG1636S1E	HRG1648S1E	HG1660S1E
HEIGHT (in.)	43 1/2	43 1/2	43 1/2	43 1/2
WIDTH (in.)	31	31	31	31
DEPTH (in.)	31	31	31	31
WEIGHT (lbs) NET/SHIPPING	253/265	277/289	277/289	301/313



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.



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