



14 SEER HEAT PUMPS FOR R-410A



HRG14**F SERIES 1.5 to 5 Tons



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

Rated up to 15 SEER and 8.5 HSPF when matched with a Comfort-Aire air handler—see AHRI Directory

- **Micro-channel coils** are highly corrosion resistant, easier to clean and stronger than tube and fin coils
- **Louvered metal jacket** of galvanized steel with a polyester urethane finish protects the coil while adding to the unit's attractive appearance
- **Permanently lubricated PSC motor** is quiet and reliable, requires no maintenance
- **High pressure switch** protects against any excessively high system pressures
- **Liquid line filter-drier** is included for field installation
- **Five minute restart time delay** eliminates common causes of compressor failures
- **Composite base pan** is stronger and lighter than steel, resists corrosion and absorbs sound
- **Hot gas muffler** dampens compressor sound and vibration
- **Heavy duty scroll compressors** are designed for long life and efficiency
- **Heavy duty grille assembly** makes it easy to access components from top for service without disconnecting fan motor, designed for maximum air flow and quiet operation
- **Fixed orifice** is integrated into the liquid line service valve for simple change-out
- **Compressor and control access** is located on the side of the unit to speed installation and service for convenience

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			
AIR HANDLER WITH TXV AND FIXED TORQUE DRIVE	HRG1418S1F	HMG24X1E	18,000	15.0	12.0	16,400	8.2	650
	HRG1424S1F	HMG24X1E	23,800	15.0	12.5	22,000	8.5	815
	HRG1430S1F	HMG30X1E	28,000	15.0	12.5	26,200	8.5	980
	HRG1436S1F	HMG36X1E	34,200	15.0	12.5	32,600	8.5	1145
	HRG1442S1F	HMG42X1E	40,000	15.0	12.5	40,000	8.5	1205
	HRG1448S1F	HMG48X1E	46,000	15.0	12.5	45,000	8.5	1510
	HRG1460S1F	HMG60X1E	57,500	14.0	11.5	58,000	8.2	1600
AIR HANDLER WITH TXV AND PSC DRIVE	HRG1418S1F	HMG24T1E	17,700	14.0	11.5	17,000	8.2	645
	HRG1424S1F	HMG24T1E	23,800	14.0	11.5	23,000	8.2	840
	HRG1430S1F	HMG30T1E	28,800	14.0	11.5	27,000	8.2	1040
	HRG1436S1F	HMG36T1E	34,400	14.0	11.5	35,200	8.2	1250
	HRG1442S1F	HMG48T1E	42,000	14.0	11.5	42,000	8.2	1515
	HRG1448S1F	HMG60T1E	46,000	14.0	11.5	46,000	8.2	1530
	HRG1460S1F	HMG60T1E	57,500	14.0	11.5	58,000	8.2	1600
AIR HANDLER WITH ELECTRIC HEAT OPTION	HRG1418S1F	HMG24F1E	17,500	14.0	11.5	16,700	8.2	650
	HRG1424S1F	HMG24F1E	23,600	14.0	11.5	23,600	8.2	825
	HRG1430S1F	HMG30F1E	28,600	14.0	11.5	29,200	8.2	1040
	HRG1436S1F	HMG42F1E	34,400	14.0	11.5	34,000	8.2	1195
	HRG1442S1F	HMG42F1E	39,500	14.0	11.5	40,500	8.2	1275
	HRG1448S1F	HMG60F1E	45,500	14.0	11.5	46,000	8.2	1555
	HRG1460S1F	HMG60F1E	57,500	14.0	11.5	58,000	8.2	1615
WALL MOUNT AIR HANDLER HIGH EFF.	HRG1418S1F	FMG1805X1E, -1808X1E	17,600	14.5	12.0	16,000	8.2	650
	HRG1424S1F	FMG2405X1E, -2408X1E, -2410X1E	23,400	15.0	12.5	21,800	8.5	865
	HRG1430S1F	FMG3005X1E, -3008X1E, -3010X1F	26,800	15.0	12.5	26,200	8.5	1000
	HRG1436S1F	FMG3605X1E, -3608X1E, -3610X1E	32,800	15.0	12.5	31,400	8.5	1100
WALL MOUNT AIR HANDLER	HRG1424S1F	FMG2405F1E, -2408F1E, -2410F1E	22,400	14.0	11.5	22,200	8.2	805
	HRG1430S1F	FMG3005F1E, -3008F1E, -3010XF1E	27,200	14.0	11.5	27,000	8.2	1010
	HRG1436S1F	FMG3605F1E, -3608F1E, -3610F1E	32,800	14.0	11.5	31,400	8.2	1145
UPFLOW CASED COIL*	HRG1418S1F	VMG24FAE, -FBE	17,900	14.0	11.5	17,000	7.7	660
	HRG1424S1F	VMG24FAE, -FBE, -FCE	23,600	14.0	12.2	22,600	8.2	810
	HRG1430S1F	VMG36FAE, -36TFBE	28,000	14.0	12.2	28,000	8.2	980
	HRG1436S1F	VMG36FBE, -36FCE	34,600	14.0	12.2	33,000	8.2	1140
	HRG1442S1F	VMG42FBE, -42FCE	40,500	14.0	12.2	41,000	8.2	1275
MULTI-POSITION CASED COIL*	HRG1418S1F	MMG24FAE, -FBE	17,900	14.0	11.5	17,000	7.7	660
	HRG1424S1F	MMG24FAE, -FBE, -FCE	23,600	14.0	12.2	22,600	8.2	810
	HRG1430S1F	MMG36FAE, -36TFBE	28,000	14.0	12.2	28,000	8.2	980
	HRG1436S1F	MMG36FBE, -36FCE	34,600	14.0	12.2	33,000	8.2	1140
	HRG1442S1F	MMG42FBE, -42FCE	40,500	14.0	12.2	41,000	8.2	1275
UPFLOW/DOWNFLOW UNCASED COIL*	HRG1418S1F	CMG24FAE, -FBE	17,900	14.0	11.5	17,000	7.7	660
	HRG1424S1F	CMG24FAE, -FBE, -FCE	23,600	14.0	12.2	22,600	8.2	810
	HRG1430S1F	CMG36FAE, -36TFBE	28,000	14.0	12.2	28,000	8.2	980
	HRG1436S1F	CMG36FBE, -36FCE	34,600	14.0	12.2	33,000	8.2	1140
	HRG1442S1F	CMG42FBE, -42FCE	40,500	14.0	12.2	41,000	8.2	1275

See www.ahridirectory.org for all current matches.

*TXV required; ratings will vary depending on air handler used.

ELECTRICAL AND PHYSICAL DATA

MODEL	HRG1418	HRG1424	HRG1430	HRG1436	HRG1442	HRG1448	HRG1460
Power Supply	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Total Amps	9.9	14.4	13.7	15.1	19.4	21.3	27.7
Delay Fuse Max.*	20	30	25	30	40	45	60
Min. Circ. Ampacity	12.1	17.7	16.9	18.6	23.9	26.3	34.3
Coil Area Sq. Ft.	17.5	17.5	22.5	25.0	24.4	24.4	24.4
Coil Rows-FPI	1-14	1-14	1-14	1-14	1-14	1-14	1-16
Coil Tube Dia. OD	Micro-Channel						
Fan Motor Type	PSC						
Fan Motor Amps	0.9	0.9	0.9	1.0	1.5	1.5	1.5
Fan HP	1/3	1/3	1/3	1/3	1/3	1/4	1/4
Fan SCFM	2800	2800	2800	3400	4000	4000	4000
Compressor RLA	9.0	13.4	12.8	14.1	17.9	19.8	26.2
Compressor LRA	46.0	58.3	64	77	112	109	134
Sound Rating db	78	78	78	79	79	79	79
Refrig. Chg. (oz.)	87	68	72	87	115	115	114

*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'	
HRG1418S1F	3/8	3/4	3/8	3/4	3/4	Scroll
HRG1424S1F	3/8	3/4	3/8	3/4	3/4	Scroll
HRG1430S1F	3/8	3/4	3/8	3/4	3/4	Scroll
HRG1436S1F	3/8	7/8	3/8	7/8	7/8	Scroll
HRG1442S1F	3/8	7/8	3/8	7/8	7/8	Scroll
HRG1448S1F	3/8	7/8	3/8	7/8	1-1/8*	Scroll
HRG1460S1F	3/8	7/8	3/8	7/8	1-1/8*	Scroll

NOTE: Unit comes charged for 15' line set. Additional charge needed for longer line set lengths, see IOM.

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

MODEL NOMENCLATURE

H	R	G	14	24	S	1	F
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

Coil Model	Cased Coil	Uncased Coil
XMGX T A	14 ¹ / ₄ " width	12 ³ / ₄ " width
XMGX T B	17 ¹ / ₂ " width	16" width
XMGX T C	21" width	19 ¹ / ₂ " width
XMGX T D	24 ¹ / ₂ " width	23" width

NOTE: The combinations of indoor and outdoor units shown on page 2 are certified by AHRI; see the current AHRI Directory for all certified combinations and ratings:

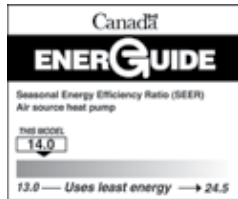
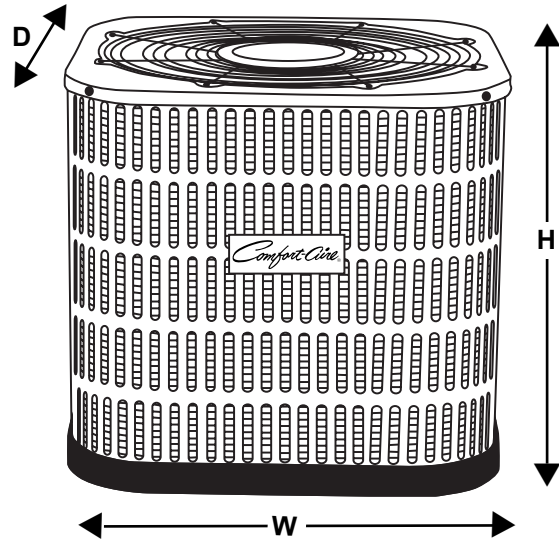
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UNIT DIMENSIONS (inches)

DIMENSION	HRG1418S1F	HRG1424S1F	HRG1430S1F	HRG1436S1F	HRG1442S1F	HRG1448S1F	HG1460S1F
HEIGHT (in.)	31½	31½	39½	43½	43½	43½	43½
WIDTH (in.)	30¾	30¾	30¾	30¾	30¾	30¾	30¾
DEPTH (in.)	30¾	30¾	30¾	30¾	30¾	30¾	30¾
WEIGHT (lbs) NET/SHIPPING	156/165	163/172	178/187	182/191	202/211	204/213	206/215

ACCESSORIES

PART NO.	DESCRIPTION
912933	Start Assist Kit—provides additional starting torque when operating with lowline voltage or high operating temperatures
913235	Outdoor Thermostat—two stage logic can lock out electric strip down to balance point and bring on stages
920900	Extreme Wind Condition Mounting Kit



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.