

HZ Series



The HZ Premier Efficiency Series delivers the ultimate in efficiency, comfort, reliability and serviceability – intelligently driven by the DXM2, the industry’s first two-way communicating control, two-stage compressor, variable speed fan and industry-first factory pump internal variable water flow components. The HZ Series also delivers reliable operation, lower operating cost and compact installation.



FEATURES

- Advanced Controls - DXM2 Board communicating control provides advanced unit functionality and comprehensive configuration, monitoring and diagnostic capabilities through digital communication links with the variable-speed fan motor, variable-speed source pump (or modulating valve) and communicating thermostat or configuration/diagnostic tool
- Optional Internal Variable Water Flow - Industry-first, built-in factory pump replaces a traditionally inefficient, external component of the geothermal system (water circulation) with an ultra-high efficient, variable speed, internal water flow system consisting of an internal variable speed circulator or an internal modulating motorized water valve
- HFC-410A refrigerant
- Copeland UltraTech™ two-stage scroll compressors
- ECM variable speed communicating fan motor with soft start
- Exceeds ASHRAE 90.1 efficiencies
- Part load operation significantly lowers annual operating costs
- Galvanized steel construction with an Artic White polyester powder coat paint and silver accents
- Stainless steel drain pan
- Unique double isolation compressor mounting for quiet operation
- TXV metering device
- Extended range (20 to 120°F, -6.7 to 48.9°C) operation
- Eight Safeties Standard
- Tin-plated micro-channel EVAP coil

WATER SOURCE HEAT PUMPS

2 to 6 Tons

Energy Efficient Heating & Cooling
for Residential Applications

UNIT SIZE

Vertical Upflow Model		A Width	B Length	C Height
024	in	22.4	62.2	19.3
	cm	56.8	158.0	48.9
036	in	25.4	71.2	21.3
	cm	64.5	180.8	54.0
048	in	25.4	76.2	21.3
	cm	64.5	193.5	54.0
060 & 070	in	25.4	81.2	21.3
	cm	64.5	206.2	54.0

Vertical Upflow Model		A Width	B Depth	C Height
024	in	22.4	25.6	48.5
	cm	56.8	65.1	123.2
036	in	25.4	30.6	50.5
	cm	64.5	77.8	128.3
048	in	25.4	30.6	54.5
	cm	64.5	77.8	138.4
060 & 070	in	25.4	30.6	58.5
	cm	64.5	77.8	148.6

PACKAGE UNIT AUXILIARY/EMERGENCY HEATERS

Part Number	kW @ 240 Single Phase	Number of Circuits	Used with HZV/D/H		
			24	36	48-70
HGM05AAG	4.8	1	X		
HGM08ABG	7.6	1	X		
HGM10ABG	9.6	1	X		
HGM12ABG	11.4	2	X		
HGL10ABG	9.6	1		X	X
HGL15ABG	14.4	2		X	X
HGL20ABG	19.2	2			X
16B0002N02	Single Circuit Adapter Kit for 2 circuit heaters				

PHYSICAL DATA

Model	024	036	048	060	070
Compressor (1 Each)	Two-Stage Scroll				
Factory Charge (HFC-410A) (oz) [kg]	44 [1.25]	52 [1.47]	69 [1.96]	142 [4.03]	140 [3.97]
ECM Fan Motor & Blower					
Fan Motor (hp) [W]	1/2 [373]	1/2 [373]	1 [746]	1 [746]	1 [746]
Blower Wheel Size (dia x w) - (in) [mm]	9 x 7 [229 x 178]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Water Connection Size					
FPT (in)	1	1	1	1	1
HWG Connection Size					
FPT (in)	1/2	1/2	1/2	1/2	1/2
Coax Volume					
Volume (US Gallons) [liters]	0.76 [2.88]	0.92 [3.48]	1.24 [4.69]	1.56 [5.91]	1.56 [5.91]
Vertical Upflow/Downflow					
Air Coil Dimensions (h x w) - (in) [mm]	28 x 20 [711 x 508]	28 x 25 [711 x 635]	32 x 25 [813 x 635]	36 x 25 [914 x 635]	36 x 25 [914 x 635]
Standard Filter - 1" [25.4mm] Throwaway, qty (in) [mm]	28 x 24 [711 x 610]	28 x 29.5 [712 x 749]	32 x 29.5 [813 x 749]	36 x 29.5 [914 x 749]	36 x 29.5 [914 x 749]
Weight - Operating, (lbs) [kg]	298 [135]	359 [163]	448 [203]	475 [215]	475 [215]
Weight - Packaged, (lbs) [kg]	308 [140]	369 [167]	458 [208]	485 [220]	485 [220]
Weight-ClimaDry II (lbs) [kg]	38 [17]	41 [19]	44 [20]	49 [22]	49 [22]
Horizontal					
Air Coil Dimensions (h x w) - (in) [mm]	18 x 31 [457 x 787]	20 x 35 [508 x 889]	20 x 40 [508 x 1016]	20 x 45 [508 x 1143]	20 x 45 [508 x 1143]
Standard Filter - 1" [25.4mm] Throwaway, qty (in) [mm]	2 - 18 x 18 [457 x 457]	1 - 12 x 20 [305 x 508] 1 - 20 x 25 [508 x 635]	1 - 18 x 20 [457 x 508] 1 - 20 x 24 [508 x 610]	2 - 20 x 24 [508 x 610]	2 - 20 x 24 [508 x 610]
Weight - Operating, (lbs) [kg]	298 [135]	359 [163]	448 [203]	475 [215]	475 [215]
Weight - Packaged, (lbs) [kg]	308 [140]	369 [167]	458 [208]	485 [220]	485 [220]
Weight-ClimaDry II (lbs) [kg]	38 [17]	41 [19]	44 [20]	49 [22]	49 [22]

Notes:
All units have TXV expansion device and 1/2" & 3/4" electrical knockouts.

TESTED TO ASHRAE/AHRI/ISO 13256-1 ENGLISH (I-P) UNITS

Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Full Cool 77°F Part Cool 68°F		Full Heat 32°F Part Heat 41°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
ME024 Part	17,900	19.2	20,100	6.6	20,200	36.2	17,100	5.7	19,400	27.9	18,900	4.4
ME024 Full	25,300	17.1	29,000	5.7	28,600	26.2	23,400	5.0	26,300	19.9	17,800	4.1
ME036 Part	26,400	20.2	30,600	6.5	30,200	35.3	25,800	5.6	28,500	29.7	22,700	5.0
ME036 Full	37,500	17.0	43,100	5.4	41,000	24.4	35,700	4.9	39,000	18.8	28,400	4.2
ME048 Part	35,700	19.6	42,900	6.5	41,000	41.8	33,700	5.3	37,400	28.6	29,000	4.7
ME048 Full	48,000	17.2	60,200	5.3	54,600	26.0	49,100	4.5	51,700	19.34	38,100	3.9
ME060 Part	42,200	18.9	44,800	5.9	48,000	32.9	35,900	4.8	46,400	27.5	30,900	4.1
ME060 Full	61,800	16.9	67,300	5.3	66,800	24.7	55,700	4.7	62,600	18.7	44,300	3.9
ME072 Part	53,500	17.9	59,200	5.4	61,400	34.8	48,000	4.8	58,000	24.1	42,400	4.1
ME072 Full	72,000	16.1	81,400	4.9	77,000	22.4	67,400	4.4	74,700	18.4	54,000	3.8

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature
Heating capacities based upon 68°F DB, 59°F WB entering air temperature
Ground Loop Heat Pump ratings based on 15% antifreeze solution
All ratings based upon operation at lower voltage of dual voltage rated models

"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 before beginning any installation preparations. All products meet applicable regulations in effect on date of manufacture; however, certifications aren't necessarily granted for life of the product. It is the responsibility of the applicant to determine whether a specific model qualifies for third party incentive/rebate programs (Federal, state, utilities, etc.).