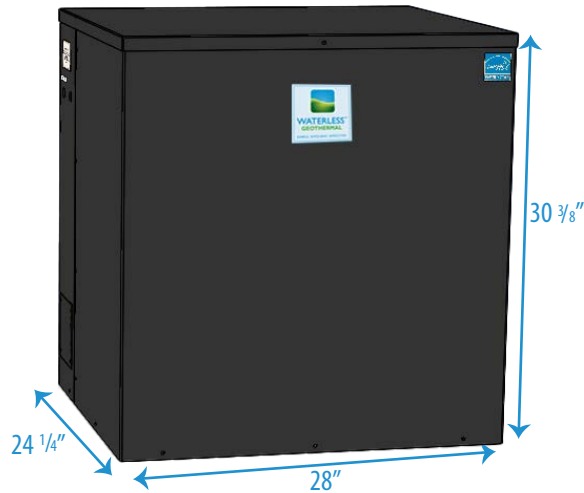


PERFORMANCE & SPECIFICATIONS

M SERIES: AH TWO STAGE



Standard Features

- ✓ Closed Loop Geothermal Heat Pump
- ✓ Refrigerant-Based Copper Ground Loop
- ✓ Multi-Functional Capabilities
 - 2 Stage Forced Air DX Htg & A/C
 - Hydronic Radiant Heat Circuit
- ✓ Eco-Friendly R-454B Refrigerant
- ✓ Copeland Scroll Compressor
- ✓ Stainless Steel Double Wall Plate Heat Exchanger
- ✓ Compressor Protection Sensor
- ✓ Smart Logic Controller
 - Hydronic Split Zoning
 - Air Zoning Friendly
 - Dual Fuel Friendly Controller
 - Enhanced Compressor Protection
- ✓ Passive Ground Loop Protection
- ✓ Refrigerant Leak Detection System

Performance

- ✓ Accommodates ECM Fixed or ECM Variable Speed DX Air Handler
- ✓ Simplified Refrigerant Circuit

Standard Upgrades

- ✓ Powder Coated Weather Resistant Steel Cabinet
- ✓ Quiet Performance
 - Noise Reduction Muffler
 - Fully Insulated Cabinet
 - Soft Mount Compressor Base

Optional Accessories

- ✓ Soft Start Device
- ✓ Impressed Current Ground Loop Protection

Limited Warranty

- ✓ 5/2 ENERGY STAR Warranty
- 5 Yr. Limited Parts Warranty
- 2 Yr. Limited Labor Warranty

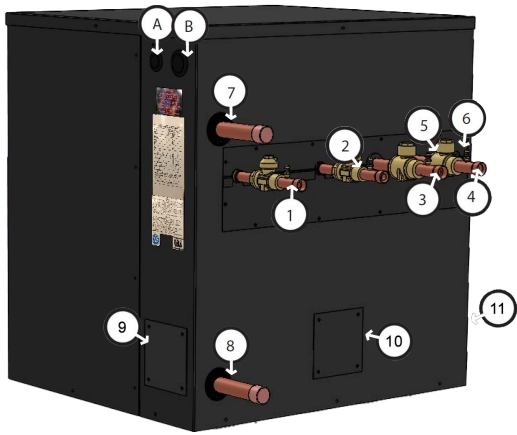
FREE Warranty Upgrade

- ✓ FREE 10 Yr. Limited Parts Warranty Upgrade on Refrigerant Circuit when Registered



Truly the Simplest DX Geothermal Design.

M SERIES: AH TWO STAGE



Connection Data

Electrical Data

TONAGE	UNIT MODEL	SINGLE PHASE	LRA	RLA	MCA	MFS
3 TON	WG2AH-36D1	230V - 60HZ	106	20.3	22.8	35
3.5 TON	WG2AH-42D1	230V - 60HZ	141	20.1	25.1	40
4 TON	WG2AH-48D1	230V - 60HZ	149	24.9	27.9	40
5 TON	WG2AH-60D1	230V - 60HZ	166	31.2	35.0	50

KEY : LRA = Locked Rotor Amps RLA = Rated Load Amps
MCA = Minimum Circuit Ampacity MFS = Maximum Fuse Size or HACR Circuit Breaker Size

PORT	FUNCTION	CONNECTION (All Pipe Sizing Given In OD)	
A	Electrical	7/8" HOLE	
B	Electrical	1-1/4" HOLE	
		3 TON UNIT ONLY	3.5 THRU 5 TON UNITS ONLY
1	AH/CC Liquid Service Valve	3/8"	1/2"
2	Earth Loop Liquid Service Valve	3/8"	1/2"
3	Earth Loop Vapor Service Valve	3/4"	7/8"
4	AH/CC Vapor Service Valve	3/4"	7/8"
5	N/A	PLUGGED	
6	N/A	PLUGGED	
7	HX Out	1 1/8"	
8	HX In	1 1/8"	
9, 10 and 11	(Opt.) Vents	See Leak Mitigation Manual for Details on Venting	

LEGEND: AH = Air Handler HWM = Hydronic Water Module DWT = Domestic Water Tank CC = Cased Coil DSH = Desuperheater HWT = Hydronic Water Tank
¹ Nominal electrical connector sizes ² Two additional electrical control ports on opposite side, same size

Lineset Size - Liquid Line*	Braze, OD	3/8"	1/2"	1/2"
Lineset Size - Vapor Line*	Braze, OD	3/4"	7/8"	7/8"

*Maximum Equivalent Length of Lineset is 125ft (Distance from Ground Loop Manifold to Air Handler)*Use Long Radius Refrigeration Grade Elbows Only

Performance Data

Size	Unit Model	Load	Heating			Cooling		
			Design Capacity	(AHRI Certified) ² Maximum Capacity	COP	Design Capacity	(AHRI Certified) ² Maximum Capacity	EER
3 ton	WG2AH-36D1	Full	36,000	36,000	4.1	36,000	36,000	22.0
		Part	25,200	24,100	4.4	25,200	24,100	30.0
3.5 ton	WG2AH-42D1	Full	42,000	42,000	3.6	42,000	42,000	19.1
		Part	25,200	28,100	3.9	25,200	28,100	24.0
4 ton	WG2AH-48D1	Full	48,000	51,500	4.1	48,000	51,500	21.0
		Part	33,600	32,200	4.4	33,600	32,200	30.0
5 ton	WG2AH-60D1	Full	60,000	61,500	4.1	60,000	61,500	20.0
		Part	42,000	40,200	4.6	42,000	40,200	25.0

Note: Not to be used for equipment sizing, please refer to equipment selection & sizing guide

LEGEND: ¹ Design Capacities are meant to be used for sizing or designing equipment XX°F Saturation Temperature (System Design)
² AHRI certified capacities are based on 870 Standard. AHRI Certified Capacities are NOT meant to be used for sizing or designing equipment