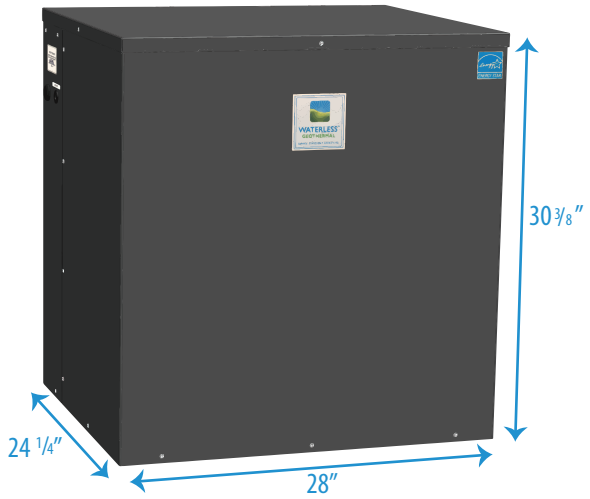
PERFORMANCE & SPECIFICATIONS

M SERIES: AH SINGLE STAGE



Standard Features

- ✓ Closed Loop Geothermal Heat Pump
- ✓ Refrigerant-Based Copper Ground Loop
- ✓ Multi-Functional Capabilities
  - 1 Stage Forced Air DX Htg & A/C
  - Hydronic Radiant Heat Circuit
- ✓ Eco-Friendly R-410A Refrigerant
- ✓ Copeland Scroll Compressor
- ✓ Stainless Steel Double Wall Plate Heat Exchanger
- ✓ Compressor Protection Sensor
- ✓ Smart Logic Controller
  - Hydronic Split Zoning
  - Dual Fuel Friendly Controller
  - Enhanced Compressor Protection
- ✓ Passive Earth Loop Protection

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

- ✓ Total Comfort Remote Monitoring & Diagnostic System
- ✓ Soft Start Device
- ✓ Impressed Current Earth Loop Protection

Limited Warranty

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

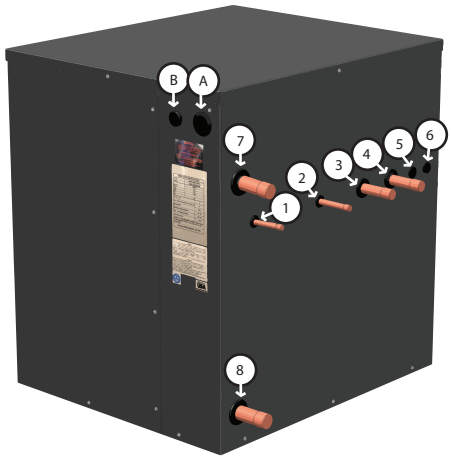
FREE Warranty Upgrade

- ✓ Free 5yr Major & Minor Parts Warranty Upgrade on Refrigerant Circuit when Registered

WATERLESS® GEOTHERMAL

Truly the Simplest DX Geothermal Design.

M SERIES: AH SINGLE STAGE



Electrical Data

TONAGE	UNIT MODEL	SINGLE PHASE	LRA	RLA	MCA	MFS
3 TON	WG1AH-36C1	230V - 60HZ	112	17.9	22.4	35
3.5 TON	WG1AH-42C1	230V - 60HZ	117	21.8	27.3	40
4 TON	WG1AH-48C1	230V - 60HZ	134	25	31.3	45
4.5 TON	WG1AH-54C1	230V - 60HZ	178	28.3	35.4	50
5 TON	WG1AH-60C1	230V - 60HZ	178	30.8	38.5	55
5.5 TON	WG1AH-66C1	230V - 60HZ	185	36.9	46.1	65

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

Connection Data

PORT	FUNCTION	TYPE OF CONNECTION	PIPE SIZE						
			36	42	48	54	60	66	72
A[1]	Electrical, Power	1-1/4" Hole	1"	1"	1"	1"	1"	1"	1"
B[1,2]	Electrical, Control	7/8" Hole	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
1	AH/CC Liquid	Braze, OD	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
2	Earth Loop Liquid	Braze, OD	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
3	Earth Loop Vapor	Braze, OD	3/4"	7/8"	7/8"	7/8"	7/8"	7/8" [3]	7/8" [3]
4	AH/CC Vapor	Braze, OD	3/4"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
5	Plugged	-	-	-	-	-	-	-	-
6	Plugged	-	-	-	-	-	-	-	-
7	HWT Waterline Out	Sweat, ID	1"	1"	1"	1"	1"	1"	1"
8	HWT Waterline In	Sweat, ID	1"	1"	1"	1"	1"	1"	1"

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 [3] Copper Fitting Adapters for Linesets ship with compressor unit

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

*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	Heating			Cooling		
		Design Capacity	(AHRI Certified)[2] Maximum Capacity	COP	Design Capacity	(AHRI Certified)[2] Maximum Capacity	EER
3 ton	WG1AH-36C1	36,000	38,000	3.9	36,000	38,000	19.1
3.5 ton	WG1AH-42C1	42,000	44,000	3.9	42,000	44,000	21.0
4 ton	WG1AH-48C1	48,000	51,500	4.0	48,000	51,500	19.8
4.5 ton	WG1AH-54C1	54,000	56,000	3.8	54,000	56,000	19.1
5 ton	WG1AH-60C1	60,000	61,500	3.6	60,000	61,500	19.1
5.5 ton	WG1AH-66C1	66,000	66,000	3.6	66,000	66,000	19.1

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
[2] AHRI certified capacities are based on 870 Standard. AHRI Certified Capacities are NOT meant to be used for sizing or designing equipment

Specification are subject to change without Notice due to our continued commitment to quality. Please Refer to the Compressor Data label for current electrical data.

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