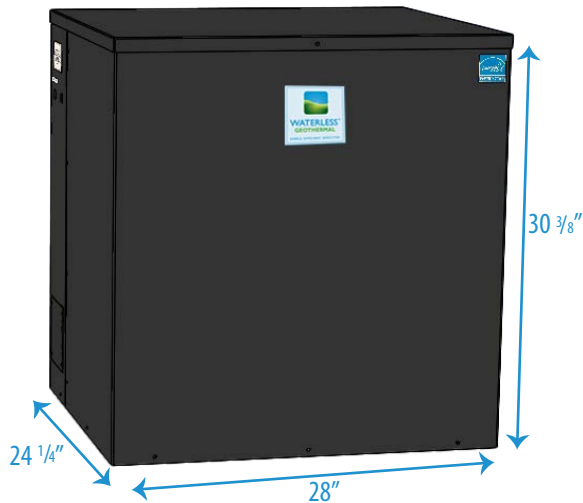


# PERFORMANCE & SPECIFICATIONS

## M SERIES: AD 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
  - 100% Domestic Hot Water
- ✓ Eco-Friendly R-454B Refrigerant
- ✓ Copeland Scroll Compressor
- ✓ Stainless Steel Double Wall Plate Heat Exchanger
- ✓ Compressor Protection Sensor
- ✓ Smart Logic Controller
  - Air Zoning Friendly
  - Dual Fuel Friendly Controller
  - Enhanced Compressor Protection
- ✓ Passive Earth Loop Protection
- ✓ Refrigerant Leak Detection System

### Performance

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

### Standard Upgrades

- ✓ Earth Loop Protection System
- ✓ 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 Earth Loop Protection

### Limited Warranty

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

### FREE Warranty Upgrade

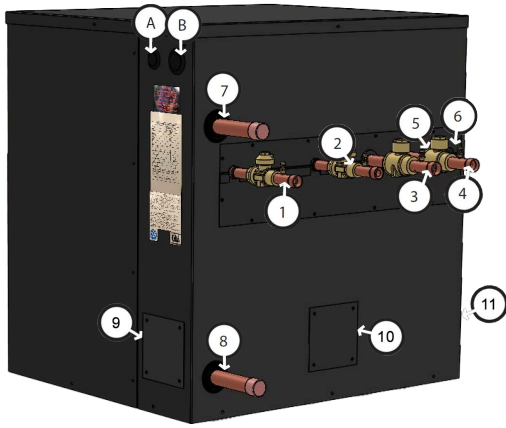
- ✓ FREE 10 Yr. Limited Parts Warranty Upgrade on Refrigerant Circuit when Registered



**WATERLESS®**  
**GEOTHERMAL**

Truly the Simplest DX Geothermal Design.

## M SERIES: AD TWO STAGE



### Connection Data

### Electrical Data

TONAGE	UNIT MODEL	SINGLE PHASE	LRA	RLA	MCA	MFS
3 TON	WG2AD-36D1	230V - 60HZ	106	20.3	22.8	35
3.5 TON	WG2AD-42D1	230V - 60HZ	141	20.1	25.1	40
4 TON	WG2AD-48D1	230V - 60HZ	149	24.9	27.9	40
5 TON	WG2AD-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: 1 AH = Air Handler HWM = Hydronic Water Module DWT = Domestic Water Tank CC = Cased Coil DWM = Domestic Water Module HWT = Hydronic Water Tank  
2 Nominal electrical connector sizes 3 Two additional electrical control ports on opposite side, same size 4 Copper Fitting Adapters for Linesets ship with compressor unit

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) <sup>2</sup> Maximum Capacity	COP	Design Capacity	(AHRI Certified) <sup>2</sup> Maximum Capacity	EER
3 ton	WG2AD-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	WG2AD-42D1	Full	42,000	42,000	3.6	28,100	42,000	19.1
		Part	28,100	28,100	3.9	28,100	28,100	24.0
4 ton	WG2AD-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	WG2AD-60D1	Full	60,000	61,500	4.1	60,000	61,500	20.0
		Part	42,000	40,200	4.4	42,000	40,200	25.0

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

LEGEND: <sup>1</sup> Design Capacities are meant to be used for sizing or designing equipment  
<sup>2</sup> 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.