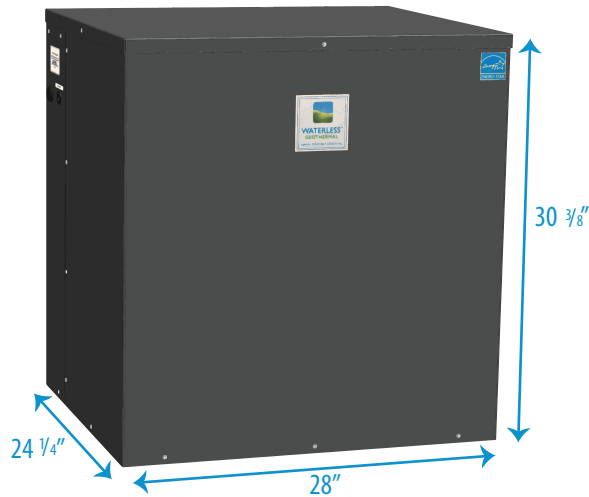


# PERFORMANCE & SPECIFICATIONS

## A SERIES: TWO STAGE



### Standard Features

- ✓ Closed Loop Geothermal Heat Pump
- ✓ Refrigerant-Based Copper Ground Loop
- ✓ 2 Stage Forced Air DX Htg & A/C
- ✓ Eco-Friendly R-410A Refrigerant
- ✓ Copeland Scroll Compressor
- ✓ Compressor Protection Sensor
- ✓ Smart Logic Controller
  - Zoning Friendly Capabilities
  - 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
- ✓ Greater Dehumidification

### 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
- ✓ Desuperheater: Supplemental Domestic Hot Water
- ✓ Impressed Current Earth Loop Protection

### Limited Warranty

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

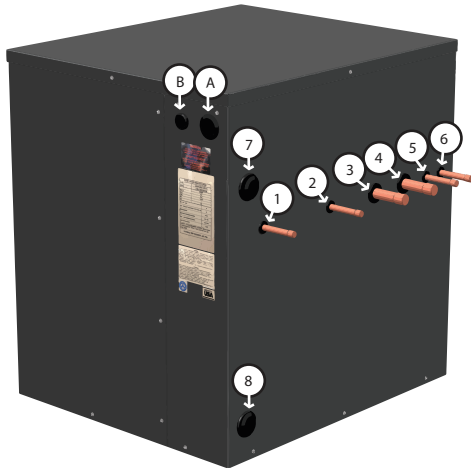
### FREE Warranty Upgrade

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



Truly the Simplest DX Geothermal Design.

## A SERIES: TWO STAGE



## Connection Data

## Electrical Data

TONAGE	UNIT MODEL	SINGLE PHASE	LRA	RLA	MCA	MFS
2 TON	WG2A-24C1	230V - 60HZ	73	13.1	16.4	25
2.5 TON	WG2A-30C1	230V - 60HZ	83	16.1	20.1	30
3 TON	WG2A-36C1	230V - 60HZ	96	17.9	22.4	35
4 TON	WG2A-48C1	230V - 60HZ	139.9	26.9	33.6	50
5 TON	WG2A-60C1	230V - 60HZ	179.2	29.7	37.1	55

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

PORT	FUNCTION	TYPE OF CONNECTION	PIPE SIZE				
			24	30	36	48	60
A <sup>1</sup>	Electrical, Power	1-1/4" Hole	1"	1"	1"	1"	1"
B <sup>1,2</sup>	Electrical, Control	7/8" Hole	3/4"	3/4"	3/4"	3/4"	3/4"
1	AH/CC Liquid	Braze, OD	3/8"	3/8"	3/8"	1/2"	1/2"
2	Earth Loop Liquid	Braze, OD	3/8"	3/8"	3/8"	1/2"	1/2"
3	Earth Loop Vapor	Braze, OD	3/4"	3/4"	3/4"	7/8"	7/8"
4	AH/CC Vapor	Braze, OD	3/4"	3/4"	3/4"	7/8"	7/8"
5	DSH Waterline Out	Sweat, ID	3/8"	3/8"	3/8"	3/8"	3/8"
6	DSH Waterline In	Sweat, ID	3/8"	3/8"	3/8"	3/8"	3/8"
7	Plugged	-	-	-	-	-	-
8	Plugged	-	-	-	-	-	-

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

Lineset Size - Liquid Line*	Braze, OD	3/8"	3/8"	3/8"	1/2"	1/2"
Lineset Size - Vapor Line*	Braze, OD	3/4"	3/4"	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
2 ton	WG2A-24C1	Full	24,000	26,400	3.8	24,000	26,400	19.1
		Part	18,000	18,000	3.3	18,000	18,000	20.1
2.5 ton	WG2A-30C1	Full	30,000	31,500	3.9	30,000	31,500	19.1
		Part	21,000	21,000	3.3	21,000	21,000	20.1
3 ton	WG2A-36C1	Full	36,000	37,200	3.8	36,000	37,200	19.1
		Part	25,200	25,200	3.3	25,200	25,200	20.1
4 ton	WG2A-48C1	Full	48,000	51,500	3.9	48,000	51,500	19.1
		Part	33,600	33,600	3.3	33,600	33,600	20.1
5 ton	WG2A-60C1	Full	60,000	61,500	3.6	60,000	61,500	19.1
		Part	42,000	42,000	3.3	42,000	42,000	20.1

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.

Total Green Mfg.  
St. Henry, Ohio 45883 USA  
www.WaterlessGeothermal.com

