

Job Name/Location:

Tag No:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

ARWN053GA2

Multi V™ Water Mini

4.4 Ton Water Source Unit

**Performance:****Cooling Mode:**

Rated Capacity (Btu/h)	52,900
Power Input ¹ (kW)	3.2

Heating Mode:

Rated Capacity (Btu/h)	61,400
Power Input ¹ (kW)	3.5

Rated Capacity is based on the following conditions:

Cooling Test Conditions:

Indoor: 80°F DB / 66°F WB

Water Inlet Temp: 86°F

Heating Nominal Test Conditions:

Indoor: 68°F DB / 59°F WB

Water Inlet Temp: 68°F

Electrical:

Power Supply (V/Hz/Ø)	208-230V / 60 / 1
MOP (A)	45
MCA (A)	27.0
Rated Amps (A)	21.6

Piping:

Refrigerant Charge (lbs.)	2.2
Liquid Line (in., O.D.)	3/8 Braze
Vapor Line (in., O.D.)	3/4 Braze

Water:

Water Inlet / Outlet (in.)	1-1/4 FPT
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Water Operating Range:

Cooling Mode Entering Water Range (°F) ²	23 - 113
Heating Mode Entering Water Range (°F) ²	23 - 113

Required Accessory:
☐ Variable Water Valve Control Kit - PRVC1 (One Kit per Frame)
Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units ³	9
Sound Pressure ⁴ dB(A) (Cooling)	54
Net Unit Weight (lbs.)	168
Shipping Weight (lbs.)	181
Communication Cable ⁵ (No x AWG)	2 x 18
Heat Exchanger Type	Stainless Steel Plate
Heat Rejected to Equipment Room (Btu/h)	512

Compressor:

Type	Inverter Rotary
Quantity	1
Oil / Type	PVE/FVC68D

Condenser Water:

Flow Rate (gpm)	15.9
Pressure Drop (ft. w.g.)	9.5

Notes:

1. For AHRI rating, refer to the AHRI website <http://www.ahridirectory.org>.
2. Variable water flow control kit PRVC1 is required (one kit per frame).
3. The combination ratio must be between 30 – 130%.
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. Communication cable between ODU to IDU(s) to be a minimum 18 AWG, 2-conductor, twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the ODU chassis only. ⚡ Do not ground the ODU to IDU(s) communication cable at any other point. Wiring must comply with all applicable local and national codes.
6. Nominal data is rated 0 ft above sea level, with 25 ft of refrigerant line per indoor unit and a 0 ft level difference between outdoor and indoor units. All capacities are net with a combination ratio between 95-105%.
7. Power wiring cable size must comply with the applicable local and national codes.
8. The voltage tolerance is ± 10%.



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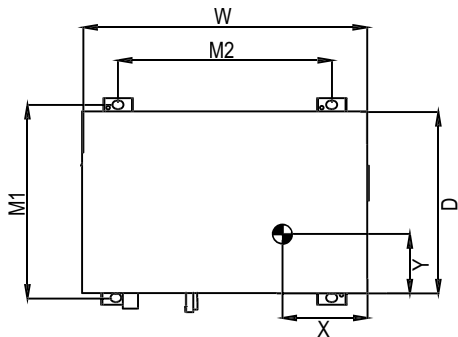
4.4 Ton Water Source Unit



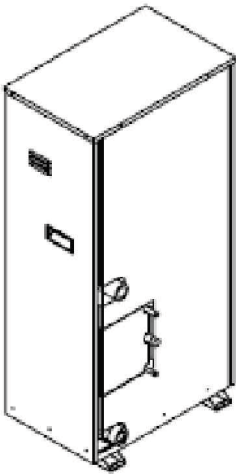
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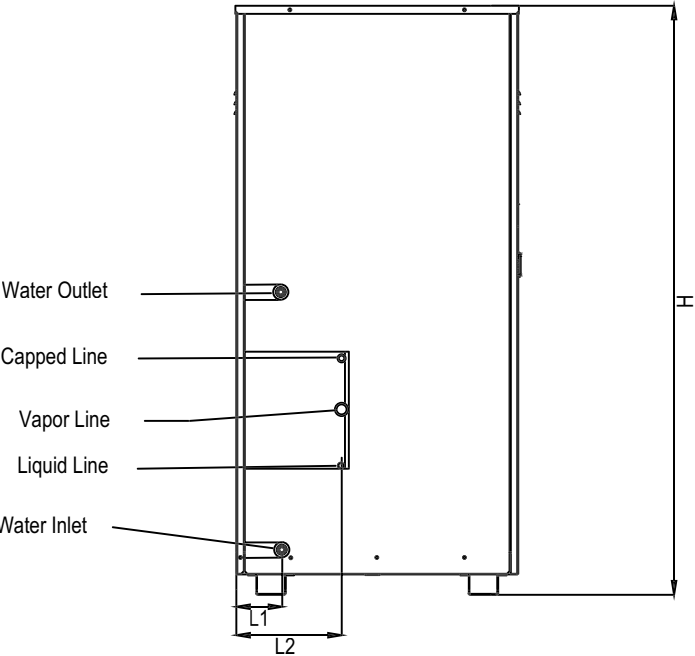


Top View

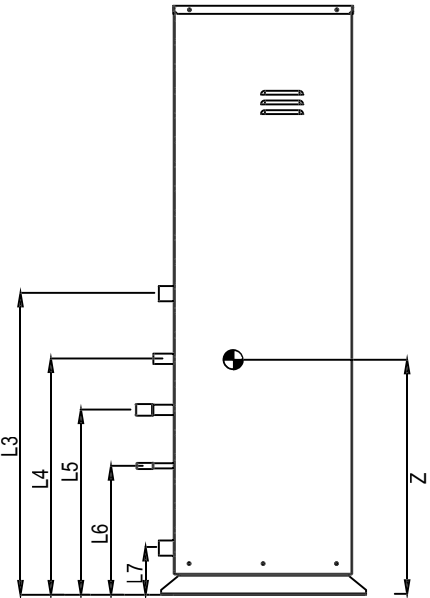


Isometric

W	20-5/8"
D	13-1/8"
H	42-1/2"
L1	3-5/16"
L2	7-5/8"
L3	21-13/16"
L4	17-1/16"
L5	13-5/8"
L6	9-5/16"
L7	3-7/16"
L8	23-11-16"
M1	13-15/16"
M2	15-1/4"



Front View



Side View

X	8-5/16"
Y	4-7/16"
Z	15-7/8"

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ARWN053GA2
Multi V™ Water Mini
4.4 Ton Water Source Unit



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AHRI Data:

Reference Number	Indoor Unit Type	Cooling Capacity (86°F)	EER (86°F)	IEER	Heating Capacity (68°F)	COP (68°F)
205281408	Ducted Indoor Units	53,000	14.00	20.00	61,000	4.90
202516213	Non-Ducted Indoor Units	53,000	13.40	20.10	61,000	4.85