Job Name/Location: **Tag No.:**

Date: **For:** ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: **GC:**

Engr: **Mech:**

Rep:
(Company) (Project Manager)

ARWM288CAS5

Multi V™ Water V 575V ARWM144CAS5/ARWM144CAS5

28 Ton Water Source Unit for HP and HR

Performance:

Cooling Mode:

Nominal Capacity (Btu/h)[1]	287,700

Heating Mode:

Nominal Capacity (Btu/h)[1]	324,000

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Electrical:[5,6]

Frame	(a) ARWM144CAS5	(b) ARWM144CAS5
Power Supply (V/Hz/Ø)	575/60/3	575/60/3
MOP (A)	25	25
MCA (A)	14.5	14.5
Rated Amps (A)	11.6	11.6

Piping:[7]

Frame	(a) ARWM144CAS5	(b) ARWM144CAS5
Refrigerant Charge (lbs.)	9.9	9.9
Liquid (in., O.D.)	1/2	1/2
High Pressure Vapor (in., O.D.)	7/8	7/8
Low Pressure Vapor (in., O.D.)	1-1/8	1-1/8

Water Piping:[7]

Frame	(a) ARWM144CAS5	(b) ARWM144CAS5
Inlet / Outlet (inches)	1-1/2	1-1/2

Condenser Water:

Frame	(a) ARWM144CAS5	(b) ARWM144CAS5
Flow Rate (gpm)	35.5	35.5
Pressure Drop (ft.-w.g.)	9.63	9.63

* Pure water. See Propylene and Ethylene glycol tables in the MV Water 5 Engineering manual for adjustment if fluid mixture contains antifreeze.

Condensate Piping:

Frame	(a) ARWM144CAS5	(b) ARWM144CAS5
Condensate Line (inches)	3/4	3/4

Standard Features:

- Fault Detection and Diagnosis
- Internal Refrigerant Cooling Control
- Smart Oil Control
- HiPOR (High Pressure Oil Return)
- Subcooling and apor Inection Control

Required Accessories:

☐ ARCNN21 or ARCNN31 (HP)/ARCNB21 or ARCNB31 (HR) -Frame Connector Y-branch
☐ PT / NPT Conversion Thread Kit

Optional Accessories:

☐ Variable Water Flow Valve Control Kit - PWFCKN000

Water Operating Range:[2]

Cooling Mode Entering Water Range (°F)	50 - 113
Heating Mode Entering Water Range (°F)	23 - 113
Synchronous Mode Entering Water Range (°F)	23 - 113

Unit Data:

Refrigerant Type		R410A
Refrigerant Control		EEV
Max. Number of Indoor Units		45
Sound Pressure dB(A)[3]		
Cooling / Heating		57
Weight		
Frame	(a) ARWM144CAS5	(b) ARWM144CAS5
Net (lbs.)	348	348
Shipping (lbs.)	370	370
Communication Cable (No x AWG)[5,6]		2 x 18
Heat Exchanger Type		Stainless Steel Plate

Compressor:

Type	Hermetic Scroll
Drive	Inverter
Quantity	2
Oil / Type	PVE / FVC68D

Notes:

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change.
2. When entering water temperature is lower than 59°F, variable water flow control kit PWFCKN000 is required. When entering water temperature is lower than 50°F, water solution must be minimum 45% antifreeze.
3. Sound levels are tested in an anechoic chamber under ISO Standard 3745.
4. Value is calculated as follows:Delta T=Total Heat of Rejection/(Nominal Flow Ratex500)
5. Communication cable between WSU, IDU(s) / HRU(s), and Central Controller must be a minimum of 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the WSU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
6. Power wiring is field provided, solid or stranded, and must comply with all applicable local and national codes.
7. LG requires that LATS software be used on all projects to ensure correct line sizing. Designer must verify the shop drawing design against the as built using LATS. Contractor must also use LG manufactured Y-Branch and Header Kits only.

Inverter

AHRI CERTIFIED™ www.ahridirectory.org Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

Job Name/Location

ARWM288CAS5

Multi V™ Water 5
Heat Pump/Heat Recovery
28 Ton Water Source Unit

ARWM144CAS5

ARWM144CAS5

LG
Life's Good

Tag No: _____

Date: _____

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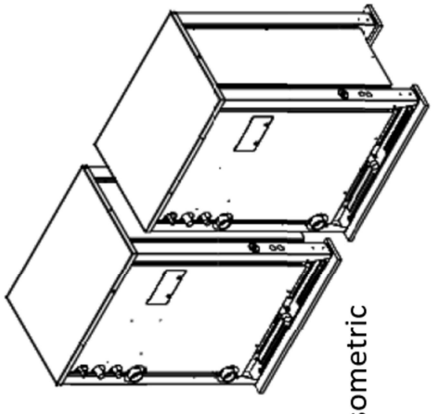
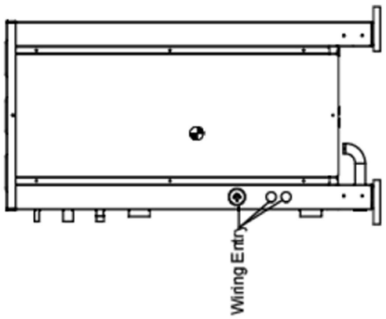
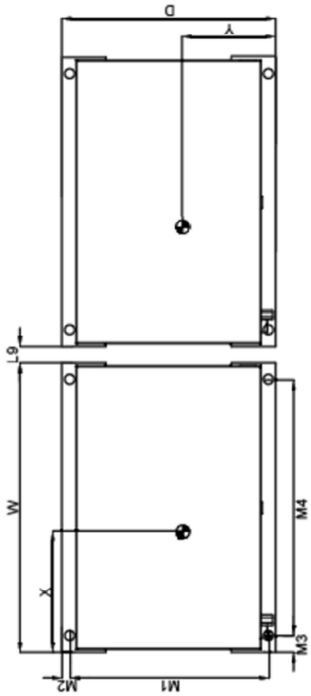
X	13-1/16"
Y	11-1/4"
Z	19-11/16"
W	30-3/8"
D	21- 1/2"
H	44-1/8"
L1	7-3/16"
L2	25-3/4"
L3	33-7/8"
L4	37-7/8"
L5	41-1/2"
L6	3"
L7	1-15/16"
L8	15-3/16"
M1	22-9/16"
M2	1/2"
M3	2-3/16"
M4	25-7/8"



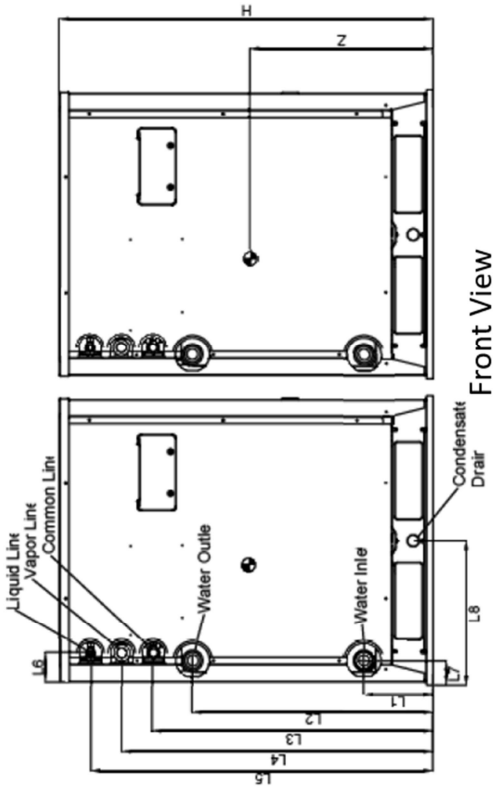
Isometric



Side View



Top View



Front View

For continual product development, LG reserves the right to change specifications without notice.