

Job Name/Location:

Tag No.:

Date:

|      |          |          |
|------|----------|----------|
| For: | File     | Resubmit |
|      | Approval | Other    |

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**ARWM096CAS5**

Multi V™ Water V 575V

8 Ton Water Source Unit for Heat Pump and Heat Recovery

**Performance:**

Cooling Mode:

|                                       |        |
|---------------------------------------|--------|
| Nominal Capacity (Btu/h) <sup>1</sup> | 96,000 |
|---------------------------------------|--------|

Heating Mode:

|                                       |         |
|---------------------------------------|---------|
| Nominal Capacity (Btu/h) <sup>1</sup> | 108,000 |
|---------------------------------------|---------|

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at [www.ahridirectory.org](http://www.ahridirectory.org).

**Electrical:**<sup>5,6</sup>

|                       |          |
|-----------------------|----------|
| Power Supply (V/Hz/Ø) | 575/60/3 |
| MOP (A)               | 15       |
| MCA (A)               | 9.5      |
| Rated Amps (A)        | 7.6      |

**Piping:**<sup>7</sup>

|                                 |     |
|---------------------------------|-----|
| Refrigerant Charge (lbs.)       | 9.9 |
| Liquid (in., O.D.)              | 3/8 |
| High Pressure Vapor (in., O.D.) | 3/4 |
| Low Pressure Vapor (in., O.D.)  | 7/8 |

**Water Piping:**<sup>7</sup>

|                         |       |
|-------------------------|-------|
| Inlet / Outlet (inches) | 1-1/2 |
|-------------------------|-------|

**Condenser Water:**

|                           |      |
|---------------------------|------|
| Flow Rate (gpm)           | 25.4 |
| Pressure Drop (ft.-w.g.)* | 5.21 |

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

**Condensate Piping:**

|                          |     |
|--------------------------|-----|
| Condensate Line (inches) | 3/4 |
|--------------------------|-----|

**Standard Features:**

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

**Standard Accessories:**
☐ PT / NPT Conversion Thread
**Optional Accessories:**
☐ Variable Water Flow Valve Control Kit - PWFCCKN000
**Water Operating Range:**<sup>2</sup>

|  |          |
|--|----------|
| 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                   | 16                    |
| Sound Pressure dB(A) <sup>3</sup>             |                       |
| Cooling / Heating                             | 48/48                 |
| Weight  |                       |
| Net (lbs.)                                    | 348                   |
| Shipping (lbs.)                               | 370                   |
| Communication Cable (No x AWG) <sup>5,6</sup> | 2 x 18                |
| Heat Exchanger Type                           | Stainless Steel Plate |

**Compressor:**

|            |                 |
|------------|-----------------|
| Type       | Hermetic Scroll |
| Drive      | Inverter        |
| Quantity   | 1               |
| Oil / Type | PVE / FVC68D    |

**Notes:**

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at [www.ahridirectory.org](http://www.ahridirectory.org)
2. When entering water temperature in cooling mode is lower than 59°F, variable water flow control kit PWFCCKN000 is required. When entering water temperature is lower than 50°F, water solution must be minimum 45% antifreeze.
3. Sound pressure levels are tested in an anechoic chamber under ISO 3745 Standard.
4. Value calculated as follows: Delta T = Total Heat of Rejection/(Nominal Flow Rate x 500)
5. Communication cable between Master ODU to Slave ODU(s), and Master ODU to IDUs/HRUs to be 18 AWG, 2-conductor, twisted, stranded and shielded. Ensure the communication cable shield is properly grounded to the Master ODU chassis only. Do not ground ODUs to IDUs/HRU communication cable at any other point.
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 design using LATS. Contractor must also use LG manufactured Y-Branch and Header Kits only.



Job Name/Location

ARWM096CA55

Multi V™ Water 5 Heat Pump/Heat Recovery

8 Ton Water Source Unit

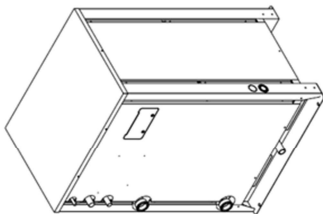


Tag No: \_\_\_\_\_

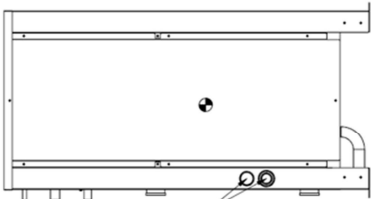
Date: \_\_\_\_\_

PO No: \_\_\_\_\_

|    |           |
|----|-----------|
| 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"   |

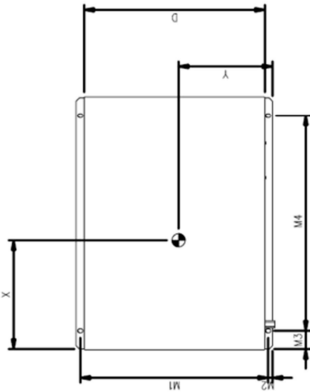


Isometric

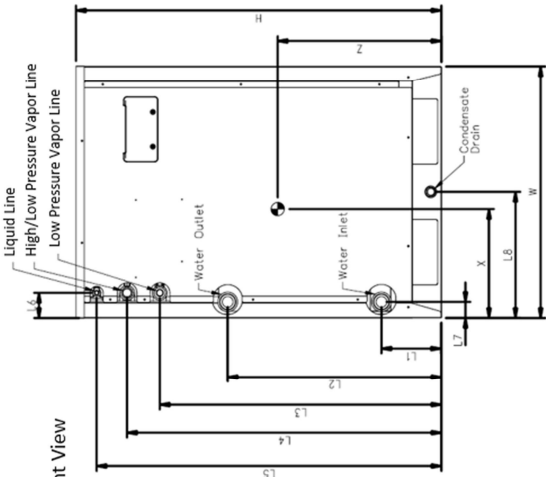


Side View

Wiring Entry



Top View



Front View

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