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PO No.:	Approval	Other
Architect:	GC:	
Engr:	Mech:	
Rep:		
(Company)	(Project Manager)	



## ARWM144BAS5

Multi V™ Water 5 208-230V Water Source Unit  
12 Ton Single Frame Heat Pump and Heat Recovery



### Performance:

#### Cooling Mode:

Nominal Capacity (Btu/h)	144,000
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#### Heating Mode:

Nominal Capacity (Btu/h)	162,000
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Rated capacity is certified under AHRI Standard 1230-2023. Ratings are subject to change without notice. Current and past certified ratings are available at [www.ahridirectory.org](http://www.ahridirectory.org).

### Electrical:

Power Supply (V/Hz/Ø) <sup>1</sup>	208-230 / 60 / 3
MOP (A)	50
MCA (A)	32.7
Rated Amps (A)	26.2

### Refrigerant Charge / Pipe Connections:<sup>7</sup>

Refrigerant Charge (lbs.)	7.7
Liquid (in., O.D.)	1/2 Braze
Low Pressure Vapor (in., O.D.)	1-1/8 Braze
High Pressure Vapor (in., O.D.)	7/8 Braze

### Water Pipe Connections:

Inlet / Outlet (in., I.D.)	1-1/2 FPT
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### Condenser Water:

Flow Rate (GPM)	35.5
Pressure Drop (ft.-w.g.)	9.63

### Condensate Pipe Connection:

Condensate Pipe Diameter (in., I.D.)	3/4 MPT
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### Standard Features:

- Fault Detection and Diagnosis
- Smart Oil Control
- HiPOR (High Pressure Oil Return)
- Self-Cooling Heat Exchanger and Inverter PCB

### Optional Accessory:

- Variable Water Flow Valve Control Kit - PWFCCKN000 (One Kit per Frame)<sup>2</sup>

### Water Operating Range:

Cooling Mode Entering Water Range (°F)	50 to 113
Heating Mode Entering Water Range (°F) <sup>3</sup>	23 to 113
Synchronous Mode Entering Water Range (°F) <sup>3</sup>	23 to 113

### Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units <sup>4</sup>	23
Sound Pressure dB(A) <sup>5</sup>	56
Sound Power dB(A)	68
Weight	
Net (lbs.)	322
Shipping (lbs.)	340
Communication Cable (No x AWG) <sup>6</sup>	2 x 18
Heat Exchanger Type / Max. Pressure (PSI)	Stainless Steel Plate / 640

### Compressor:

Type	High-Side Shell Hermetic Scroll
Drive	Inverter
Quantity	1
Oil / Type	PVE / FVC68D

### Notes:

1. Power wiring size must comply with the applicable local and national code.
2. Variable water flow control kit PWFCCKN000 is required for applications with entering water temperatures below 59°F (one kit per frame). Minimum flow rate must be 40% of the nominal flow rate, 2-10V signal with a linear flow response valve.
3. For heating and synchronous operation applications with entering water temperatures lower than 50°F, refer to the Water Loop Circuit Design and Installation section in the Installation Manual.
4. The combination ratio must be between 50-130%.
5. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 at AHRI cooling and heating rated conditions.
6. 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.
7. LG requires that LATS software be used on all projects to ensure correct refrigerant pipe 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.
8. For 208-230V systems, acceptable voltage range is 187-253V.



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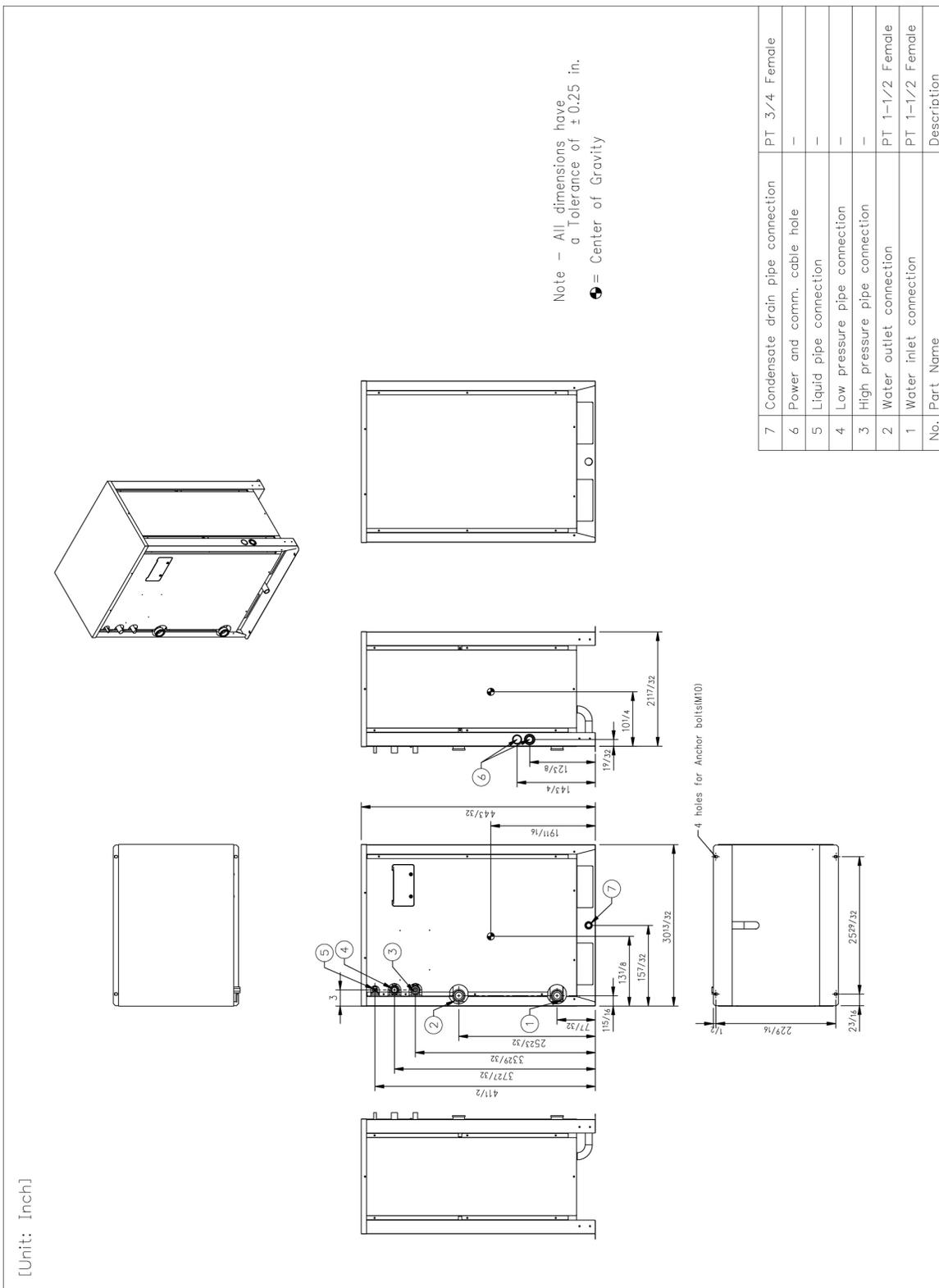
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### AHRI Data:

Reference Number	Indoor Unit Type	Cooling Capacity (86°F)	EER (86°F)	IEER	SCHE	Heating Capacity (68°F)	COP (68°F)
213916233	Ducted Indoor Units	138000	11.7	19.1	20.43	154000	5.40
213916243	Non-Ducted Indoor Units	138000	11.7	24.1	24.0	154000	6.13

Rated capacity and efficiency data are certified under AHRI Standard 1230-2023. Ratings are subject to change without notice. Current and past certified ratings are available at [www.ahrirectory.org](http://www.ahrirectory.org).