

Date:

For:  File  Resubmit

PO No.:

Approval  Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**ARWB432BA2** (a) ARWB144BA2  
 Multi V™ Water II Heat Recovery (b) ARWB144BA2  
 36.0 Ton Water Source Unit (c) ARWB144BA2



**Performance:**

**Cooling Mode:**

Nominal Capacity (Btu/h)	432,000
Power Input (kW)	26.4

**Heating Mode:**

Nominal Capacity (Btu/h)	486,000
Power Input (kW)	27.38

Nominal capacities are outside the scope of AHRI Standard 1230 and based on the following conditions -

Cooling Nominal Test Conditions:  
 Indoor: 80°F DB /66°F WB  
 Water Inlet Temp: 86°F

Heating Nominal Test Conditions:  
 Indoor: 68°F DB  
 Water Inlet Temp: 68°F

**Water Operating Range:**

CLG Mode Entering Water Range (°F)	50-113
HTG Mode Entering Water Range (°F)	23-113
Synchronous (°F)	23-113

**Unit Data:**

Refrigerant Type	R410A
Refrigerant Control	EEV
Max Number of Indoor Units <sup>2</sup>	64
Sound Pressure <sup>3</sup> dB(A)	54
Net Unit Weight (a) + (b) + (c)	525 + 525 + 525
Shipping Weight (a) + (b) + (c)	570 + 570 + 570
Communication Cable <sup>4</sup> (No. x AWG)	2 x 18
Heat Exchanger Type	Stainless Steel Plate
Heat Rejected to Equip Rm (Btu/h)	5,121
Total Heat of Rejection (Btu/h)	522,189

**Compressor:**

Inverter Scroll Quantity	3
Constant Scroll Quantity	3
Oil/Type	PVE/FVC68D

**Condenser Water:**

Flow Rate (a) + (b) + (c) (GPM)	42.2 + 42.2 + 42.2
Pressure Drop (a) + (b) + (c) (ft wg)	14.4 + 14.4 + 14.4

**Notes:**

- For main pipe segment size, refer to the LATS Multi V tree diagram.
- The combination ratio must be between 50-130%.
- Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996 and for the combination of water cooled units.
- All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded and must comply with applicable local and national code.
- The data mentioned in the above tables is applied with non-ducted indoor units.
- This 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%.
- All capacities are net.
- The voltage tolerance is ± 10%.
- Power wiring cable size must comply with the applicable local and national code.
- AHRI 1230 Certification Program includes models up to 300MBh. Refer to AHRI certification directory for corresponding single frame units.

**Electrical:**

(a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB144BA2

Power Supply (V/Hz/Ø)	208-230/60/3	208-230/60/3	208-230/60/3
MOP (A)	60	60	60
MCA (A)	42.5	42.5	42.5
Rated Amps (A)	37.4	37.4	37.4
Compressor A (A)	16.8	16.8	16.8
Compressor B (A)	20.6	20.6	20.6
Max Starting Current (A)	103.9	103.9	103.9

**Piping:**

Refrigerant: (a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB144BA2

Refrigerant Charge (lbs)	19.4	19.4	19.4
Liquid Line <sup>1</sup> (in, OD)	1/2 Flare	1/2 Flare	1/2 Flare
Vapor Line High <sup>1</sup> (in, OD)	7/8 Braze	7/8 Braze	7/8 Braze
Vapor Line Low <sup>1</sup> (in, OD)	1-1/8 Braze	1-1/8 Braze	1-1/8 Braze

**Water:**

(a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB144BA2

Water Inlet/Outlet (in)	1-1/2 FPT	1-1/2 FPT	1-1/2 FPT
-------------------------	-----------	-----------	-----------

**Condensate:**

(a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB144BA2

Condensate Line (in)	3/4	3/4	3/4
----------------------	-----	-----	-----

**Standard Features:**

- Limited Warranty with LG Certified Installation
  - Two Year Functional Parts Warranty
  - Additional Four Year Compressor Warranty
- Fault Detection and Diagnosis

**Required Accessories:**

- ARCNB21 (frame connector Y-branch)
- ARCNB31 (frame connector Y-branch)



Job Name/Location:

**ARWB432BA2**

Multi V™ Water II Heat Recovery  
36.0 Ton Water Source Unit

(a) ARWB144BA2

(b) ARWB144BA2

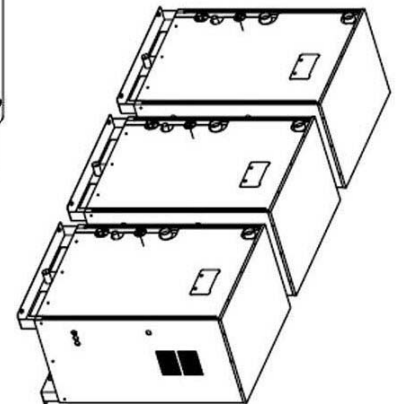
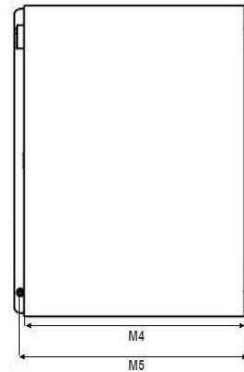
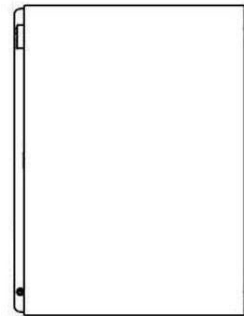
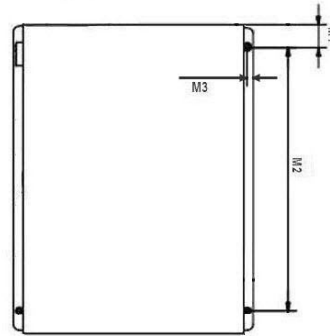
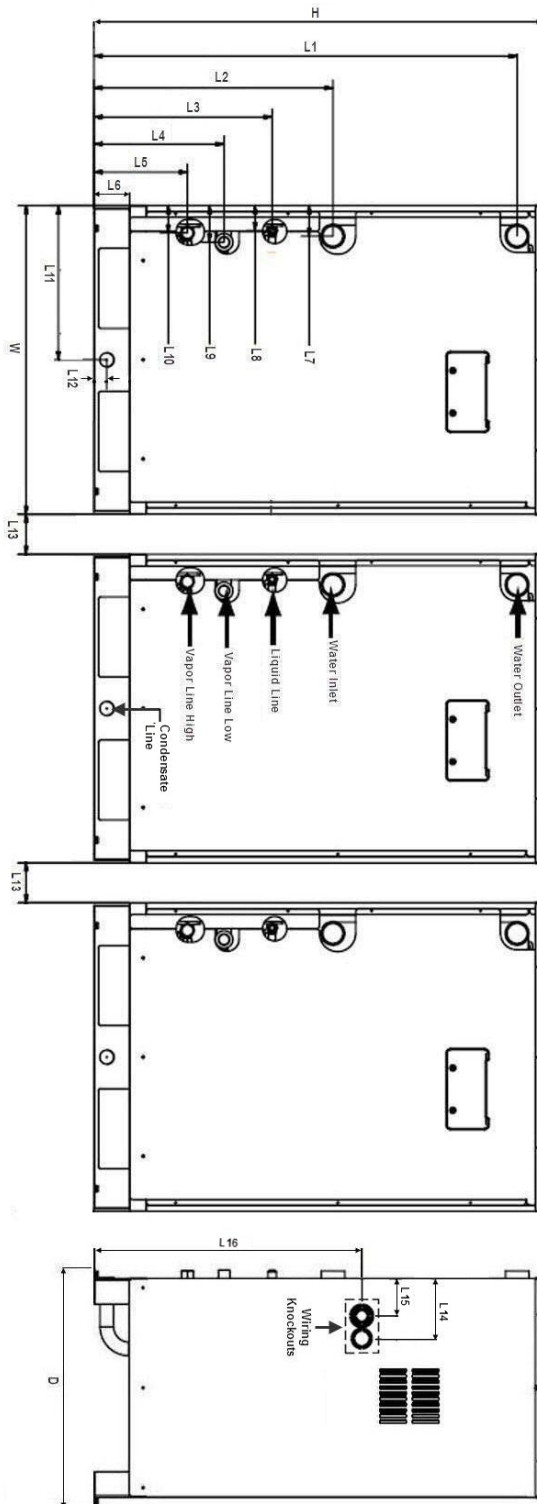
(c) ARWB144BA2



Tag #:

Date:

PO No.:



Note - All dimensions have a tolerance of ± 0.25 in.

W	30-13/32
H	44-3/32
D	23-19/32
L1	41-5/8
L2	23-1/2
L3	17-17/32
L4	12-13/16
L5	9-1/4
L6	3-21/32
L7	3-1/2
L8	2-15/32
L9	3-5/8
L10	2-3/4
L11	15-3/16
L12	1-1/4
L13	6
L14	5-5/8
L15	3-9/16
L16	26-27/32
M1	2-1/4
M2	25-29/32
M3	19/32
M4	21-17/32
M5	22-13/32