

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

ARWB360BA2 (a) ARWB144BA2
 Multi V™ Water II Heat Recovery (b) ARWB144BA2
 30.0 Ton Water Source Unit (c) ARWB072BA2



Performance:

Cooling Mode:

Nominal Capacity (Btu/h)	360,000
Power Input (kW)	22.0

Heating Mode:

Nominal Capacity (Btu/h)	405,000
Power Input (kW)	22.83

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

Electrical:

(a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB072BA2

	(a) ARWB144BA2	(b) ARWB144BA2	(c) ARWB072BA2
Power Supply (V/Hz/Ø)	208-230/60/3	208-230/60/3	208-230/60/3
MOP (A)	60	60	35
MCA (A)	42.5	42.5	21.0
Rated Amps (A)	37.4	37.4	16.8
Compressor A (A)	16.8	16.8	16.8
Compressor B (A)	20.6	20.6	-
Max Starting Current (A)	103.9	103.9	-

Piping:

Refrigerant: (a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB072BA2

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Refrigerant Charge (lbs)	19.4	19.4	16.1
Liquid Line ¹ (in, OD)	1/2 Flare	1/2 Flare	3/8 Flare
Vapor Line High ¹ (in, OD)	7/8 Braze	7/8 Braze	3/4 Braze
Vapor Line Low ¹ (in, OD)	1-1/8 Braze	1-1/8 Braze	7/8 Braze

Water: (a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB072BA2

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Water Inlet/Outlet (in)	1-1/2 FPT	1-1/2 FPT	1-1/4 FPT

Condensate: (a) ARWB144BA2 (b) ARWB144BA2 (c) ARWB072BA2

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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)

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 ²	64
Sound Pressure ³ dB(A)	53
Net Unit Weight (a) + (b) + (c)	525 + 525 + 375
Shipping Weight (a) + (b) + (c)	570 + 570 + 420
Communication Cable ⁴ (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)	435,158

Compressor:

Inverter Scroll Quantity	3
Constant Scroll Quantity	2
Oil/Type	PVE/FVC68D

Condenser Water:

Flow Rate (a) + (b) + (c) (GPM)	42.2 + 42.2 + 21.1
Pressure Drop (a) + (b) + (c) (ft wg)	14.4 + 14.4 + 8.9

Notes:

1. For main pipe segment size, refer to the LATS Multi V tree diagram.
2. The combination ratio must be between 50-130%.
3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996 and for the combination of water cooled units.
4. All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded and must comply with applicable local and national code.
5. The data mentioned in the above tables is applied with non-ducted indoor units.
6. 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%.
7. All capacities are net.
8. The voltage tolerance is ± 10%.
9. Power wiring cable size must comply with the applicable local and national code.
10. AHRI 1230 Certification Program includes models up to 300MBh. Refer to AHRI certification directory for corresponding single frame units.



Job Name/Location:

ARWB360BA2

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

(a) ARWB144BA2

(b) ARWB144BA2

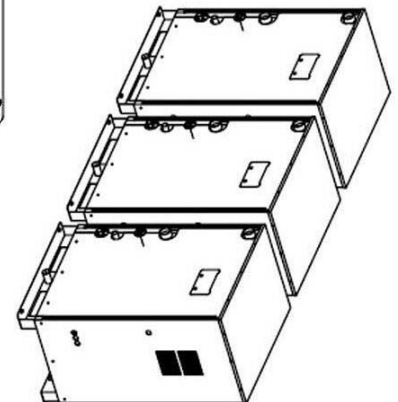
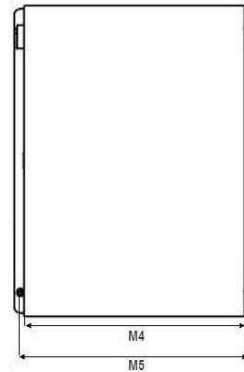
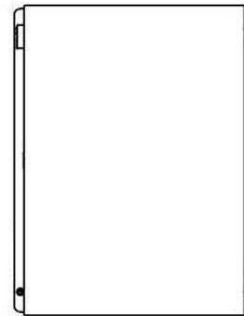
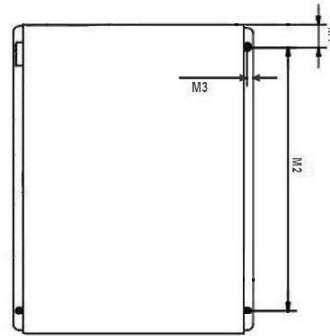
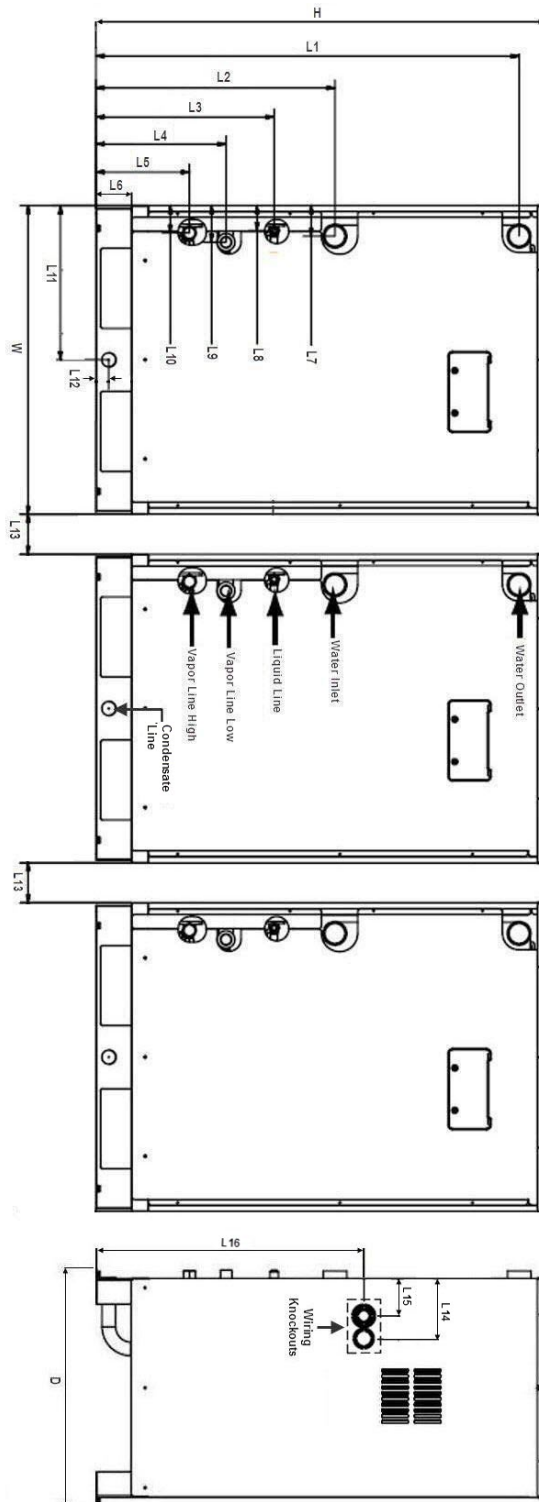
(c) ARWB072BA2



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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