



SUBMITTAL DATA SHEET

Air To Water Heat Pump

Model Number: XAW-048N8-MB1U

Location: _____
Engineer: _____
Submitted to: _____
Submitted by: _____
Reference: _____

Approval: _____
Date: _____
Construction: _____
Unit #: _____
Drawing #: _____



Performance

Nominal heating capacity	Tons	4	Nominal cooling capacity	Tons	2.8
Refrigerant Type	Type	R32	GWP (Global Warming Potential)		675
Refrigerant Charge	lbs	3.97	Workable ambient temperature range	°F(°C)	-13~110(-25~43)
Rated Heating capacity	Btu/hr	56118	Rated Cooling capacity	Btu/hr	34660
Heating input power	W	4478	Cooling input power	W	3729
COP	W/W	3.67	EER	(Btu/h)/W	9.29
Rated Heating Conditions	°F	Leaving Water Temp. : 95 Ambient (DB/WB) : 47/43	Rated Cooling Conditions	°F	Leaving Water Temp. : 44.6 Ambient (DB/WB) : 95/75.2

Performance values indicated above are in accordance with EN14511

Product Details

Product Details

Power Supply	V/Ph/Hz	208-230/1/60	Compressor Type		Inverter
Power Supply Connections		L1, L2, Ground	Sound Pressure (Daytime Max/Rated/Low Noise)	dB(A)	57/53/50
Min. Circuit Amps MCA	A	28	Max Overcurrent Protection (MOP)	A	36
Cooling Mode Leaving Water Temp	°F(°C)	44.6~80.6(7~27)	Heating Mode Leaving Water Temp	°F(°C)	77~140(25~60)
Piping Connections Inlet/ Outlet	in	1 NPT female thread	Relief Valve Pressure	PSI	43.5
Water flow	GPM	11	Water Pump Type		BLDC
Net Dimensions (LxWxH)	in	47-1/4 x 21-5/8 x 33-5/8	Shipping Dimensions (LxWxH)	in	49-1/4 x 22-5/8 x 38-3/4
	mm	1200 x 550 x 855		mm	1251 x 575 x 984
Net / Shipping Weight	lbs	260/282	Net / Shipping Weight	kg	118/128

Notes:

• Must follow installation instructions in the applicable installation manual.

1. Power wiring size must comply with the applicable local and national code.

2. Acceptable operating voltage range: 198V - 264V.

3. Sound power level is measured in accordance with ISO 9614.

• Daytime Max: This mode is measured based on max. fan RPM and max. compressor Hz. that can be reached under outdoor air temperature of 35.6°F.

• Rated: This mode is measured on the rated condition in the semi-anechoic rooms. Therefore, these values may vary depending on operation conditions.

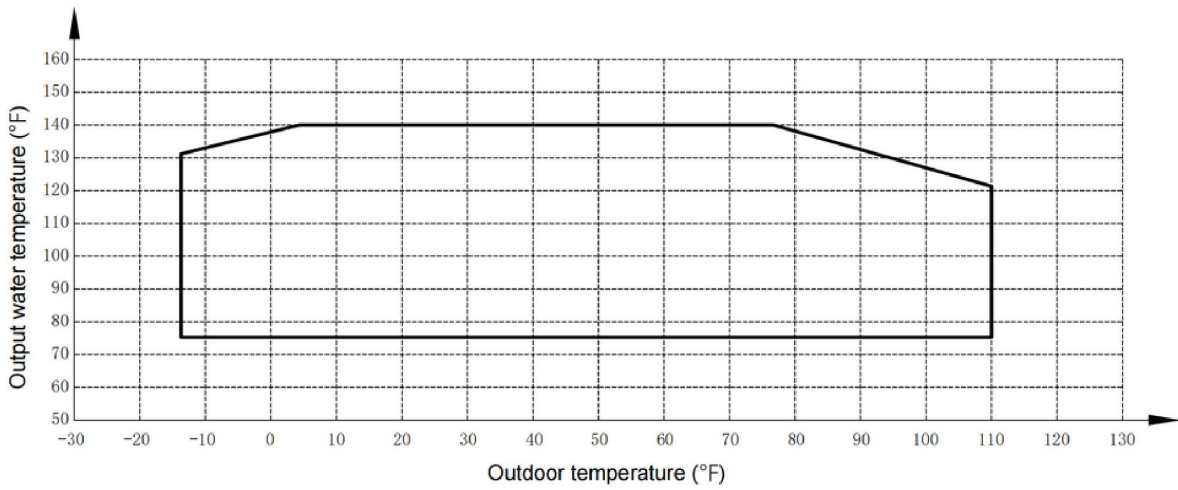
• Low Noise: This mode lowers noise by limiting the compressor Hz. and fan RPM, and thus the performance may be limited.

4. Sound pressure level is converted value at 1m distance .

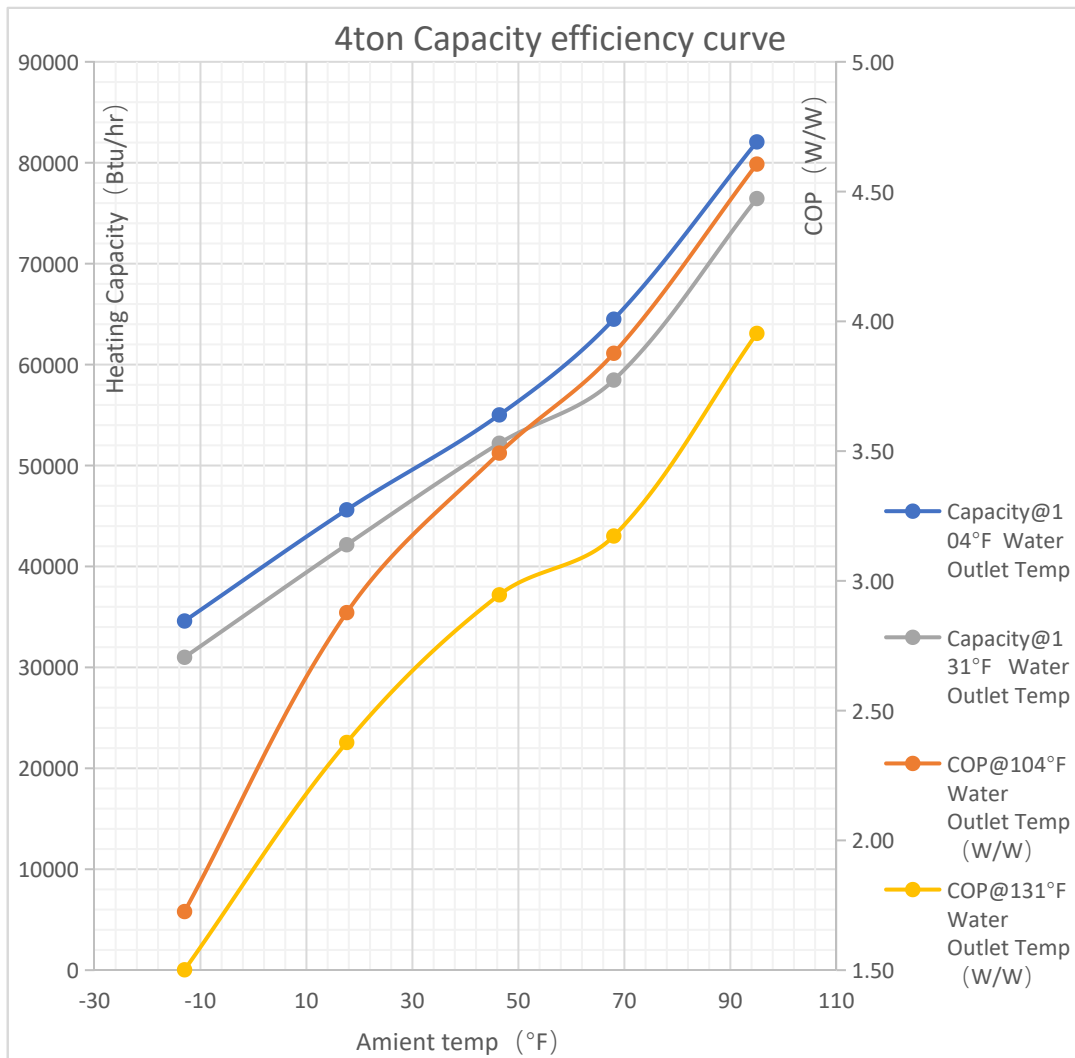
5. All installation sites must be equipped with ground fault protection in accordance with the local codes, such as a Ground Fault Protection device or Ground Fault Circuit Breaker.

Operating Envelop

Working area (R32)



Heating Curve

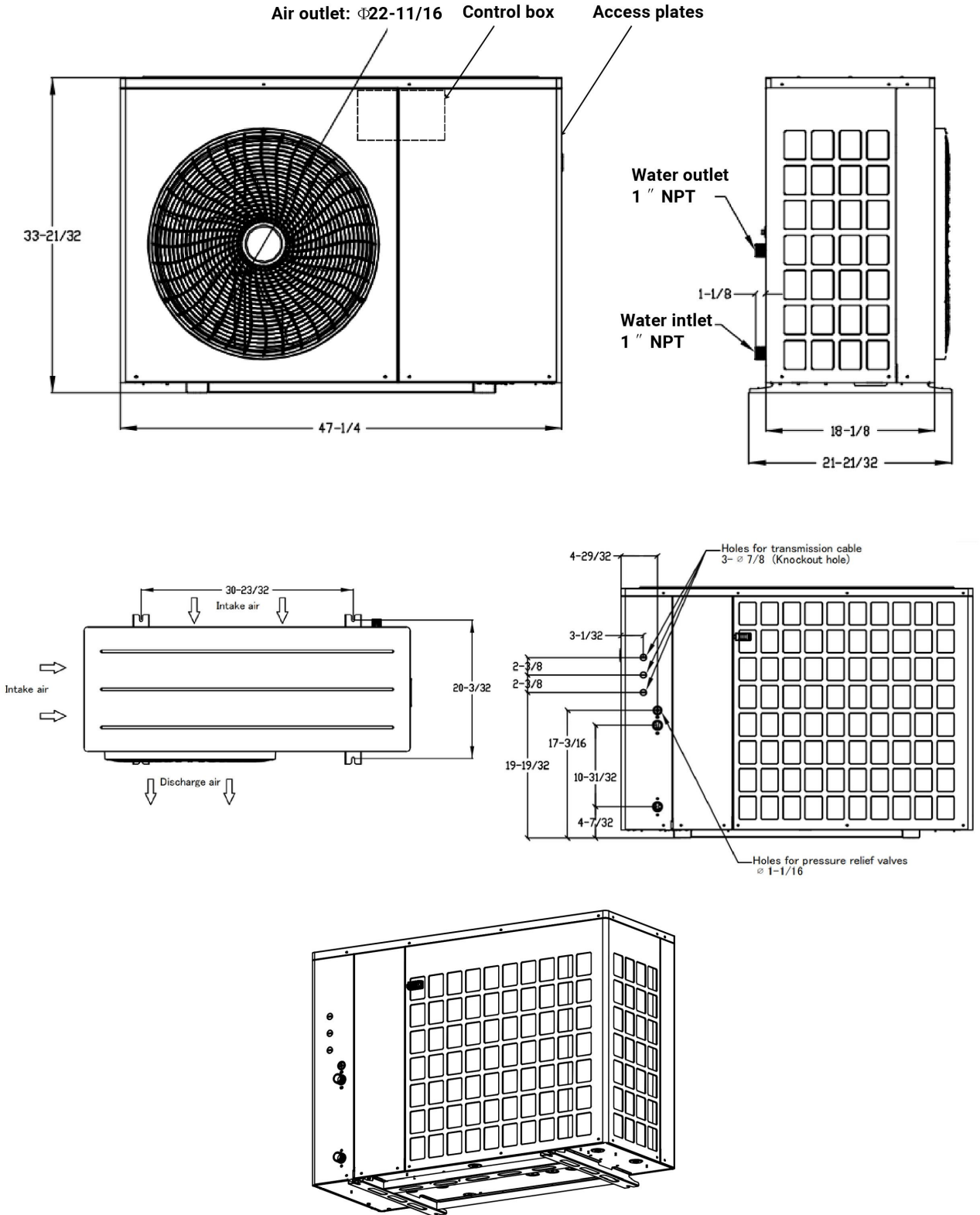


Heating Capacity Table

4ton (R32)-Heating

Amient temp	Water Outlet Temp (°F)	Heating Capacity (Btu/hr)	Input Power (with water pump) (W)	COP (with water pump) (W/W)	Note
DB95°F	140	72630	5837	3.65	
	131	76452	5667	3.95	
	122	78013	5502	4.16	
	113	79605	5378	4.34	
	104	82067	5222	4.61	
	95	83742	5119	4.79	
DB86°F	140	67186	5515	3.57	
	131	70722	5407	3.83	
	122	72909	5249	4.07	
	113	74397	5146	4.24	
	104	76698	5046	4.46	
	95	78263	4922	4.66	
DB77°F	140	62870	5594	3.29	
	131	64815	5431	3.50	
	122	66819	5222	3.75	
	113	68886	5070	3.98	
	104	71017	4922	4.23	
	95	72466	4826	4.40	
DB68°F	140	56716	5509	3.02	
	131	58470	5401	3.17	
	122	59639	5293	3.30	
	113	61429	5187	3.47	
	104	64500	4876	3.88	
	95	67725	4778	4.15	
DB46.4°F	140	51161	5453	2.75	
	131	52205	5193	2.95	
	122	53000	4993	3.11	
	113	54082	4756	3.33	
	104	55017	4617	3.49	
	95	56118	4478	3.67	
DB35.6°F	140	45431	5297	2.51	
	131	46836	5045	2.72	
	122	48284	4898	2.89	
	113	50296	4756	3.10	
	104	51302	4518	3.33	
	95	52328	4292	3.57	
DB17.6°F	140	40045	5456	2.15	
	131	42152	5196	2.38	
	122	43417	4989	2.55	
	113	44285	4839	2.68	
	104	45614	4645	2.88	
	95	47438	4552	3.05	
DB10°F	131	37094	5326	2.04	
	122	39509	5128	2.26	
	113	41185	4960	2.43	
	104	41965	4762	2.58	
	95	43169	4653	2.72	
	DB-13°F	131	31001	6051	1.50
122		31960	5875	1.59	
113		32948	5704	1.69	
104		34596	5875	1.73	
95		36325	5993	1.78	

Dimension Drawing



Feature

- Eco-Friendly R32 Refrigerant -A2L refrigerant in low GWP675.
- EVI Inverter Twin-Rotary Compressor – Ensuring stable operation down to -13°F .
- Monoblock Design with Built-in Water Pump- For faster, easier installation and enhanced system reliability.
- Quiet operation (50 dBA, sound pressure)- Enhance comfort.
- 24V controls in flexibility with integration capabilities to HVAC system.
- Smart Anti-Freeze Protection – Automatically activates in standby mode to prevent freezing.
- Intelligent Defrost System – Rapid, demand-based defrosting for minimal temperature fluctuation and 30% higher efficiency.
- Scalable Cascade Function – Connect up to 8 units for enhanced reliability and extended lifespan.
- Standard Limited Warranty – 10-years coverage on compressor and all components.
- Unit UL-60335-2-40 (safety) , AHRI 550/590 (performance) approved.