



# SUBMITTAL DATA SHEET

## Air To Water Heat Pump

**Model Number: XAW-072N8-MB1U**

Location: \_\_\_\_\_  
Engineer: \_\_\_\_\_  
Submitted to: \_\_\_\_\_  
Submitted by: \_\_\_\_\_  
Reference: \_\_\_\_\_

Approval: \_\_\_\_\_  
Date: \_\_\_\_\_  
Construction: \_\_\_\_\_  
Unit #: \_\_\_\_\_  
Drawing #: \_\_\_\_\_



### Performance

Nominal heating capacity	Tons	6	Nominal cooling capacity	Tons	4.2
Refrigerant Type	Type	R32	GWP (Global Warming Potential)		675
Refrigerant Charge	lbs	5.06	Workable ambient temperature range	°F(°C)	-13~110(-25~43)
Rated Heating capacity	Btu/hr	76401	Rated Cooling capacity	Btu/hr	55615
Heating input power	W	6158	Cooling input power	W	6022
COP	W/W	3.64	EER	(Btu/h)/W	9.23
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

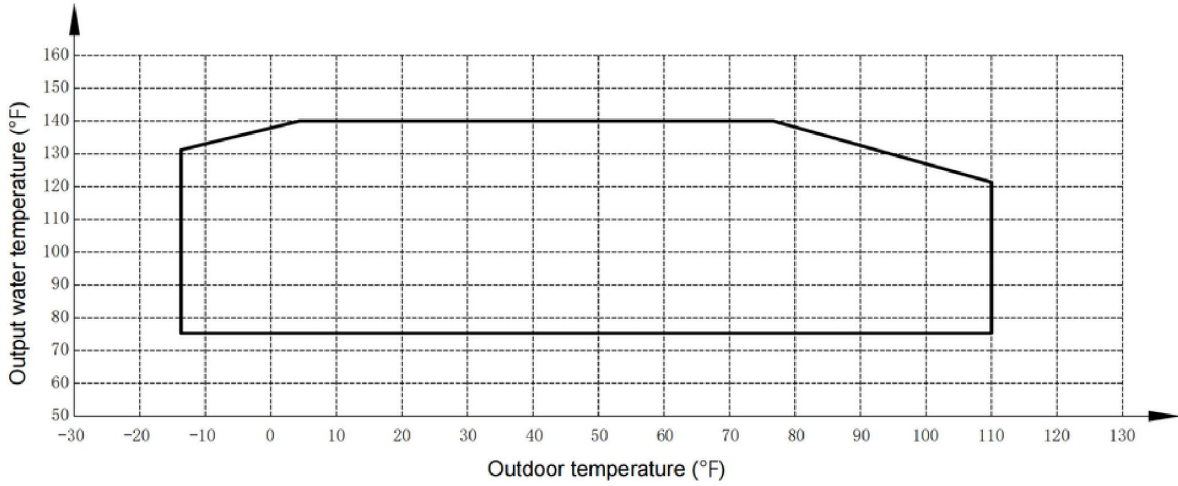
Power Supply	V/Ph/Hz	208-230/1/60	Compressor Type		Inverter
Power Supply Connections		L1, L2, Ground	Sound Pressure (Daytime Max/Rated/Low Noise)	dB(A)	61/57/54
Min. Circuit Amps MCA	A	36	Max Overcurrent Protection (MOP)	A	45
Cooling Mode Leaving Water Temp	°F(°C)	44.6~80.6(7~27)	Heating Mode Leaving 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	19	Water Pump Type		BLDC
Net Dimensions (LxWxH)	in	49-3/8 x 21-5/8 x 55-7/8	Shipping Dimensions (LxWxH)	in	51-1/8 x 22-5/8 x 61
	mm	1253 x 549 x 1420		mm	1299 x 575 x 1549
Net / Shipping Weight	lbs	385/462	Net / Shipping Weight	kg	175/210

### 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

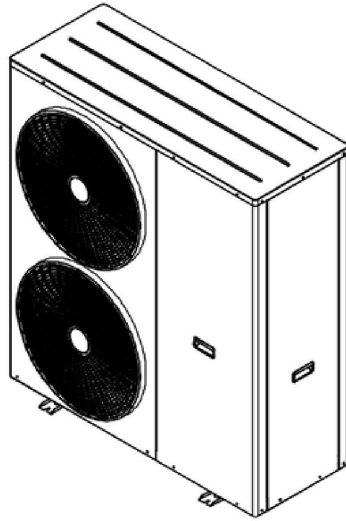
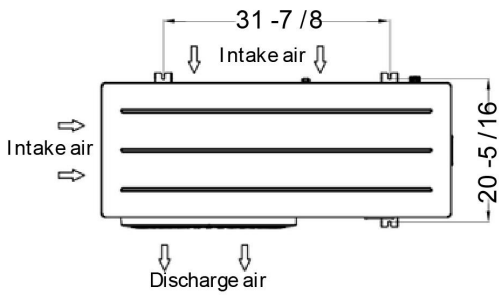
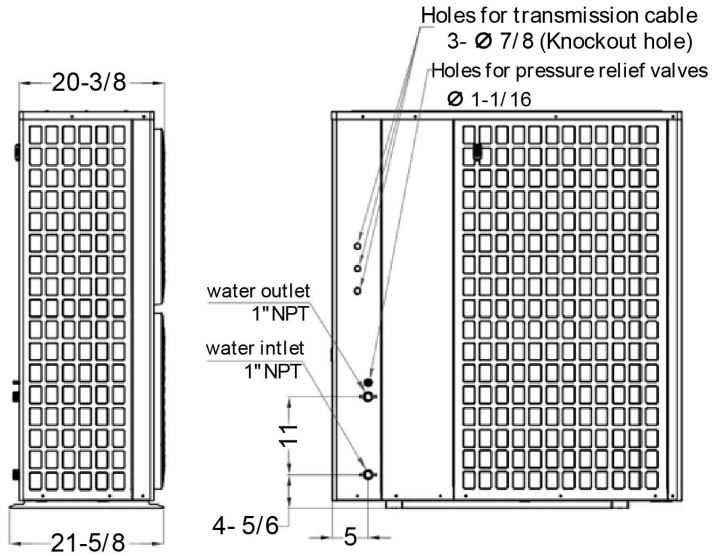
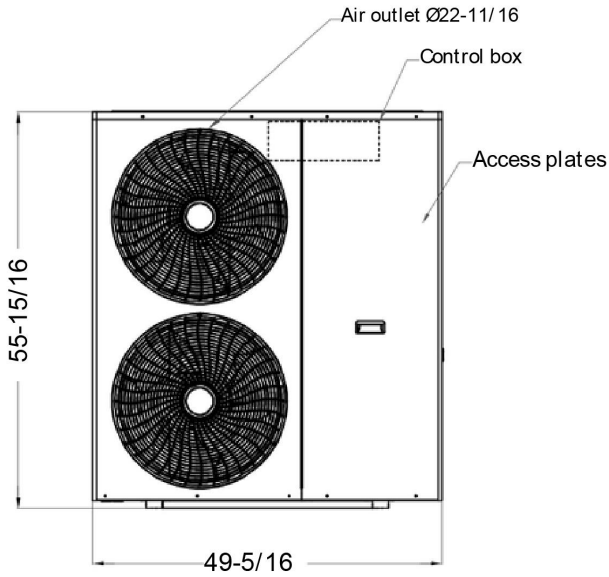


# Heating Capacity Table

## 6ton (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	98882	8181	3.54	
	131	104086	7943	3.84	
	122	106210	7712	4.04	
	113	108378	7538	4.21	
	104	111730	7319	4.47	
	95	114010	7175	4.66	
DB86°F	140	91470	7730	3.47	
	131	96284	7578	3.72	
	122	99262	7358	3.95	
	113	101288	7213	4.12	
	104	104420	7072	4.33	
	95	106551	6899	4.53	
DB77°F	140	85595	7841	3.20	
	131	88242	7612	3.40	
	122	90971	7320	3.64	
	113	93785	7106	3.87	
	104	96685	6899	4.11	
	95	98659	6764	4.27	
DB68°F	140	77216	7721	2.93	
	131	79604	7570	3.08	
	122	81196	7418	3.21	
	113	83632	7270	3.37	
	104	87814	6834	3.77	
	95	92204	6697	4.03	
DB46.4°F	140	69654	7643	2.67	
	131	71075	7279	2.86	
	122	72157	6932	3.05	
	113	73630	6602	3.27	
	104	74903	6348	3.46	
	95	76401	6158	3.64	
DB35.6°F	140	62496	7354	2.49	
	131	64429	7004	2.70	
	122	66422	6800	2.86	
	113	68476	6602	3.04	
	104	69845	6272	3.26	
	95	71242	5958	3.50	
DB17.6°F	140	53863	7575	2.08	
	131	56697	7214	2.30	
	122	58398	6926	2.47	
	113	60150	6718	2.62	
	104	61955	6449	2.82	
	95	65053	6256	3.05	
DB10°F	131	48193	7394	1.91	
	122	53727	7119	2.21	
	113	55940	6886	2.38	
	104	56998	6610	2.53	
	95	59848	6393	2.74	
DB-13°F	131	44739	8401	1.56	
	122	46122	8156	1.66	
	113	47549	7919	1.76	
	104	49926	8156	1.79	
	95	52423	8319	1.85	

# 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 (53 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.