



SUBMITTAL DATA SHEET

Air To Water Heat Pump

Model Number: XAW-144N8-YB2U

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

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



Performance

Nominal heating capacity	Tons	12	Nominal cooling capacity	Tons	9
Refrigerant Type	Type	R32	GWP (Global Warming Potential)		675
Refrigerant Charge	lbs	11.8	Workable ambient temperature range	°F(°C)	-13~110(-25~43)
Rated Heating capacity	Btu/hr	158074	Rated Cooling capacity	Btu/hr	108000
Heating input power	W	11896	Cooling input power	W	11840
COP	W/W	3.89	EER	(Btu/h)/W	9.12
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

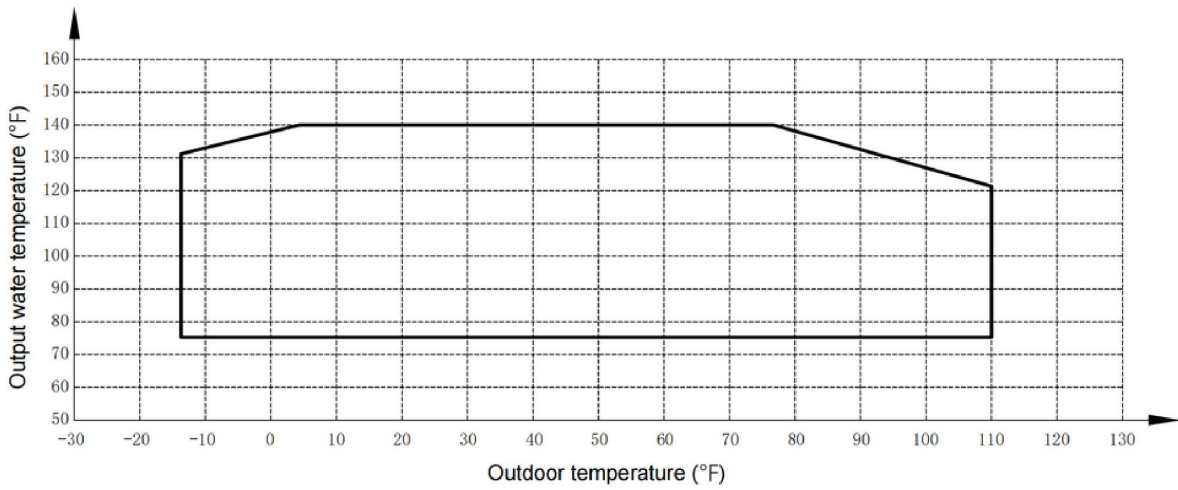
Power Supply	V/Ph/Hz	460~480/3/60	Compressor Type		Twin-Scroll Inverter
Power Supply Connections		L1, L2,L3 ,N ,Ground	Sound Pressure (Daytime Max/Rated/Low Noise)	dB(A)	65/61/58
Min. Circuit Amps MCA	A	41.8	Max Overcurrent Protection (MOP)	A	52
Cooling Mode Leaving Water Temp	°F(°C)	44.6~80.6(7~27)	Heating Mode Leaving Water Temp	°F(°C)	77~140(25~60)
Piping Connections Inlet/ Outlet	in	2 NPT female thread	Water flow	GPM	27.5
Net Dimensions (LxWxH)	in	44-5/8 x 40-3/4 x 83-3/8	Shipping Dimensions (LxWxH)	in	47-7/8x43-7/8x90-3/8
	mm	1135 x 1035 x 2118		mm	1215 x 1114 x 2297
Net / Shipping Weight	lbs	1058/1261	Net / Shipping Weight	kg	480/572

Notes:

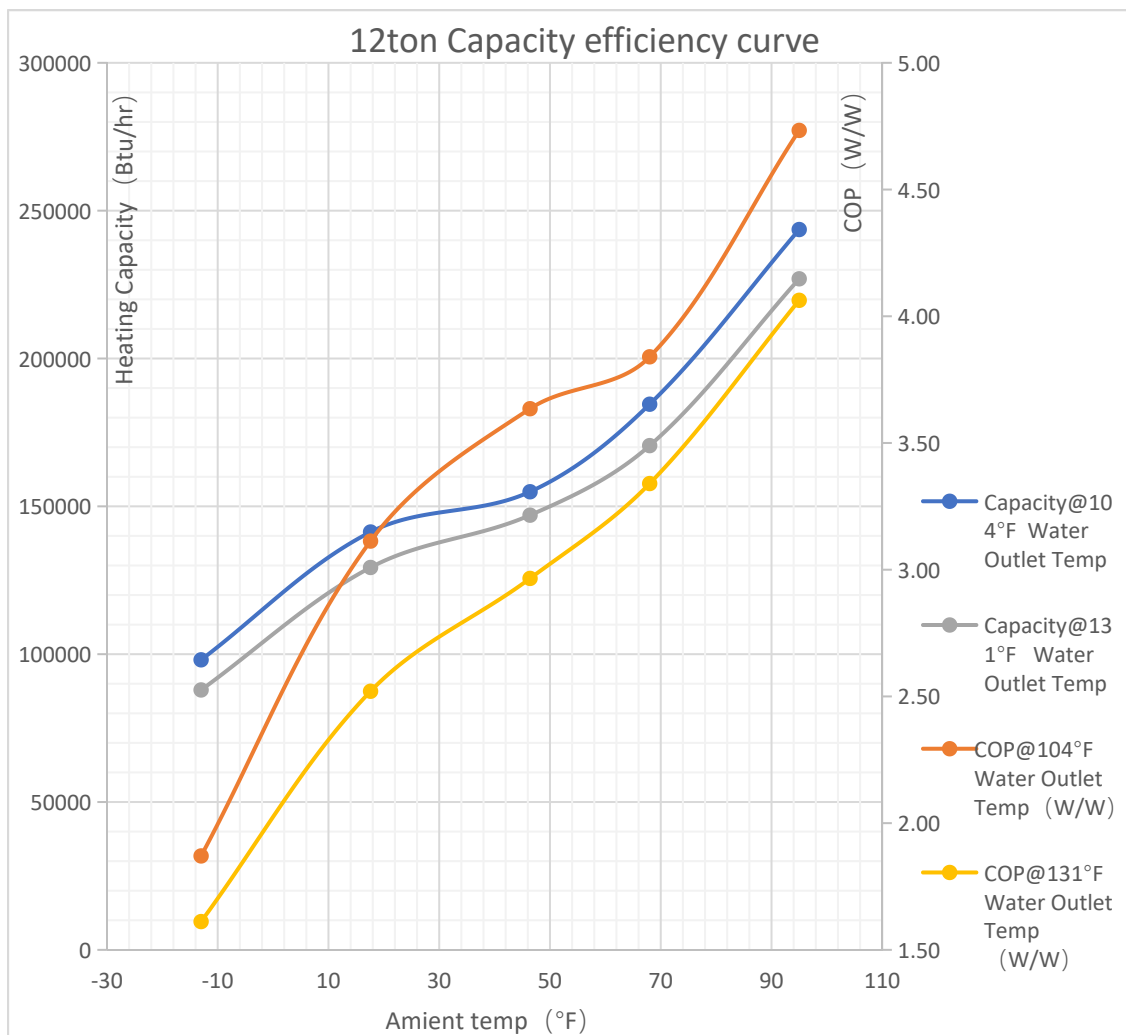
- Must follow installation instructions in the applicable installation manual.
- 1. Power wiring size must comply with the applicable local and national code.
- 2. Acceptable operating voltage range: 460 - 480V.
- 3. Sound power level is measured in accordance with ISO 9614.
 - Daytime Max: This mode 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

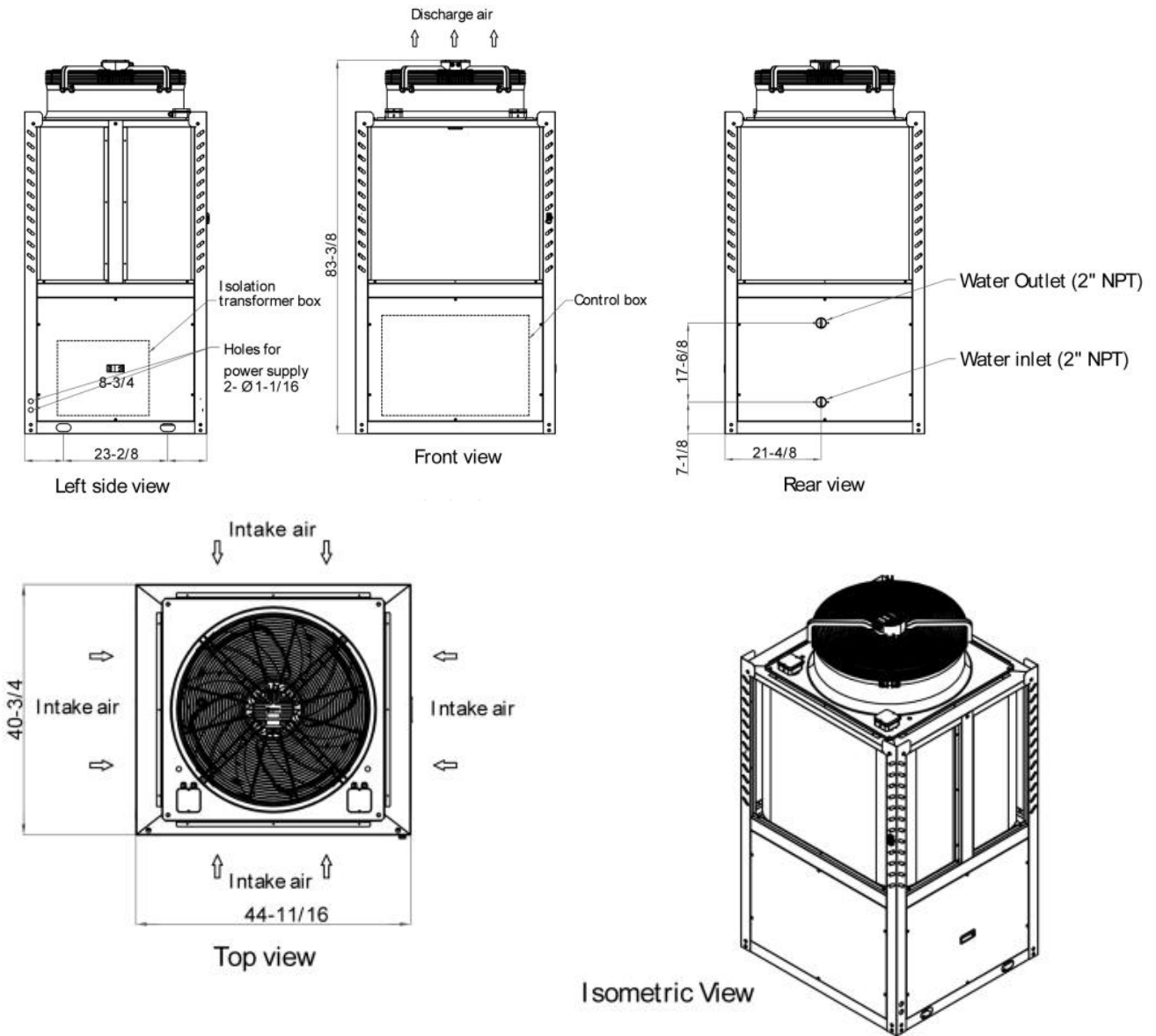


Heating Capacity Table

12ton (R32)-Heating

Amient temp	Water Outlet Temp (°F)	Heating Capacity (Btu/hr)	Input Power (W)	COP (W/W)	Note
DB95°F	140	215608	16862	3.75	
	131	226955	16371	4.06	
	122	231587	15894	4.27	
	113	236313	15537	4.46	
	104	243622	15084	4.73	
DB86°F	95	248594	14788	4.93	
	140	199446	15853	3.69	
	131	209944	15543	3.96	
	122	216437	15090	4.20	
	113	220854	14794	4.38	
DB77°F	104	227684	14504	4.60	
	95	232331	14220	4.79	
	140	183243	16004	3.36	
	131	188910	15538	3.56	
	122	194753	15085	3.78	
DB68°F	113	200776	14646	4.02	
	104	206986	14220	4.27	
	95	211210	13941	4.44	
	140	165423	15264	3.18	
	131	170539	14964	3.34	
DB68.4°F	122	173950	14665	3.48	
	113	179168	14372	3.65	
	104	184543	14084	3.84	
	95	193770	13803	4.11	
	DB46.4°F	140	144076	15400	2.74
131		147016	14529	2.97	
122		149255	13837	3.16	
113		152301	13115	3.40	
104		154935	12491	3.64	
DB35.6°F	95	158034	11896	3.89	
	140	132051	15183	2.55	
	131	136135	14460	2.76	
	122	140346	13771	2.99	
	113	144686	13115	3.23	
DB17.6°F	104	147580	12460	3.47	
	95	150531	11837	3.73	
	140	122862	15790	2.28	
	131	129328	15038	2.52	
	122	133208	14437	2.70	
DB10°F	113	137205	13859	2.90	
	104	141321	13305	3.11	
	95	146267	12773	3.36	
	131	118982	15640	2.23	
	122	123218	14870	2.43	
DB-13°F	113	126777	14413	2.58	
	104	131428	13970	2.76	
	95	135297	14050	2.82	
	131	87900	15985	1.61	
	122	90618	15519	1.71	
DB-13°F	113	93421	15067	1.82	
	104	98092	15368	1.87	
	95	102997	15676	1.93	

Dimension Drawing



Feature

- Eco-Friendly R32 Refrigerant -A2L refrigerant in low GWP675.
- EVI Inverter Twin-Scroll Compressor – Ensuring stable operation down to -13°F .
- 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.