

STANDARD SPECIFICATION

HEAT PUMP AIR TO WATER (PROPELLER FAN) WITH WATER PUMP

Model :	IN-HPAW	18FP	23FP	27FP	32FP	38FP	48FP	56FP	64FP	67FP	76FP	88FP	106FP	119FP	143FP	196FP	244FP	304FP							
Normal Heating Capacity	Hot water (Btu/h)	18,083	23,200	27,296	32,072	38,214	48,790	56,980	64,145	67,557	76,770	88,370	106,113	119,420	143,645	196,530	244,640	304,350							
	Hot water (Kw)	5.3	6.8	8.0	9.4	11.2	14.3	16.7	18.8	19.8	22.5	25.9	31.1	35.0	42.1	57.6	71.7	89.2							
Free Air cooling	(Btu/h)	16,036	21,154	24,908	29,002	34,461	45,038	52,545	59,028	60,734	69,264	79,500	98,266	109,525	131,703	181,518	225,192	281,831							
	Air temp. (°C)	25~30																							
Power Consumption	KW	2.00	2.40	2.84	3.24	3.92	4.42	5.22	5.72	6.32	7.15	8.15	9.27	10.47	12.62	16.62	20.99	25.29							
	KW / TON	1.33	1.24	1.25	1.21	1.23	1.09	1.10	1.07	1.12	1.12	1.11	1.05	1.05	1.05	1.01	1.03	1.00							
	COP.	2.65	2.83	2.82	2.90	2.86	3.24	3.20	3.29	3.13	3.15	3.18	3.35	3.34	3.34	3.47	3.42	3.53							
	Max. Total Amp.	6.10	6.10	8.60	8.00	12.90	12.00	14.00	16.00	16.90	19.80	20.60	26.30	29.00	36.70	42.00	55.60	63.80							
Compressor	Type	Scroll																							
	V. / PH. / Hz.	380 / 3 / 50 (220 / 1 / 50 Option)																							
	Kw. (Input)	1.5	1.9	2.3	2.7	3.3	3.8	4.6	5.1	5.7	6.4	7.4	8.4	9.6	11.5	15.50	19.50	23.80							
	QTY.	1																							
Coil	Type / Material	Copper Tube & Alu. Fin or Copper Fin (Option)																							
	Tube size (Inch)	3/8																							
	QTY.	1					2					2													
Fan Blade	Type	Propeller direct drive fan																							
	QTY.	1																							
Condenser Motor	Watt (output) Each	95			125			187			282			370			562			750					
	V / PH / Hz	220 / 1 / 50																							
	QTY.	1																							
Water circulated pump	Watt (output) Each	280															370								
	Current Amp.	1															1.3								
	V / PH / Hz	380 / 3 / 50																							
	QTY.	1																							
Refrigerant	Type	R-134a																							
	Kgs.	1.4	1.7	2.0	2.4	2.9	3.7	4.3	4.8	5.1	5.8	6.6	8.0	9.0	10.8	14.7	18.3	22.8							
	Charge	Full																							
Heat exchanger	Type	Plate																							
Hot Water Temp. InLet	°C(°F)	30(86)																							
Hot Water Temp. OutLet	°C(°F)	60(140)																							
Water flow rate	GPM.	0.67	0.86	1.01	1.19	1.42	1.81	2.11	2.38	2.50	2.84	3.27	3.93	4.42	5.32	7.28	9.06	11.27							
	Liter./Min.	2.53	3.25	3.83	4.50	5.36	6.84	7.99	8.99	9.47	10.76	12.39	14.88	16.74	20.14	27.55	34.29	42.67							
Water Pressure Drop	Fl.WG	3.2~3.5																							
Water Connection In/Out (MALE NPT.)	Inch	1"														1-1/4"		1-1/2"							
Water drain connection (MALE NPT.)	Inch	1/2												3/4											
Dimension	Width	770			820			920			1050			1150			1300			1450					
	Height	930					1000					1070					1150					1300			
	Depth	770			820									900			980					1080			
Ambient Working Temp.	°C	15 -> 45																							
Operation Weight	Kgs.	160	165	170	175	195	205	210	215	240	260	265	295	310	330	455	530	580							

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR FURTHER IMPROVEMENT.

NOTE:-

- Nominal Cooling Capacity Based 149 °F Condensing Temp. and 95 °F Ambient Temp.,

- Fouling Factor 0.0005 Ft2 .h.°F/Btu