

STANDARD SPECIFICATION

HEAT PUMP WATER HEATER UNIT

Model :	BTHW	18	28	40	50	60	70	90	100	125	150	200											
Nominal Heating Capacity	Hot water (Btu/h)	17,955	27,360	38,380	48,925	57,665	70,965	87,115	100,415	124,735	147,440	196,080											
	Hot water (Watt)	5,262	8,019	11,249	14,339	16,901	20,799	25,532	29,430	36,558	43,212	57,468											
Power Consumption	Kw. (Input)	1.33	2.05	2.85	3.34	3.94	4.99	6.50	7.35	8.90	10.55	14.10											
	Kw. / TON	0.89	0.90	0.89	0.82	0.82	0.84	0.90	0.88	0.86	0.86	0.86											
	COP.	3.96	3.91	3.95	4.29	4.29	4.17	3.93	4.00	4.11	4.10	4.08											
Compressor	Type	Scroll																					
	V. / Ph. / Hz.	220 / 1 / 50					380 / 3 / 50																
	QTY.	1																					
Coil	Type / Material	Copper Tube & Alu. Fin or Copper Fin (Option)																					
	Tube size (Inch)	3/8																					
Fan Blade	Type	Aluminium propellers fan																					
	QTY.	1										2											
Condenser Motor	V. / Ph. / Hz.	220 / 1 / 50								380 / 3 / 50				220/1/50									
	QTY.	1										2											
Refrigerant	Type	R-134a																					
Water Condenser		Tube In Tube																					
HOT Water Temp. InLet	°C (°F)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)
HOT Water Temp. OutLet	°C (°F)	60 (140)																					
Hot Water Flow Rate	GPM.	0.67	3.52	1.01	5.36	1.42	7.51	1.81	9.58	2.14	11.29	2.63	13.89	3.23	17.06	3.72	19.66	4.62	24.42	5.46	28.87	7.26	38.39
	Liter. /Min.	2.52	13.31	3.84	20.28	5.38	28.44	6.86	36.26	8.08	42.74	9.95	52.59	12.21	64.56	14.08	74.42	17.49	92.44	20.67	109.27	27.49	145.32
Water Pressure Drop	Ft. WG	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0	3.0	6.0
Water Connection In/Out Valve	Inch (FPT.)	3/4			1				'1-1/4				1-1/2										
Dimension	Width	950			1150				1300				1500				1800						
	Height	995					1125				1225				1100				1200				
	Depth	700				800				900				950	1050								
Ambient Working Temp.	°C	10 -> 40																					
Operation Weight	Kgs.	140	150	200	220	278	382	396	453	532	579	776											

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR FURTHER IMPROVEMENT.

NOTE:-

- Nominal Cooling Capacity Based 59 °F Suction Temp. and 95 °F Ambient Temp.,
- Fouling Factor 0.0005 Ft2 .h.°F/Btu
- RLA. = Rate Load Amp.
- MOCA = Maximum Operating Current Amp.

STANDARD SPECIFICATION

HEAT PUMP WATER HEATER UNIT

Model :	BTHW	250	300	400	500	600	800	1000	1200	1500	1800	2500											
Normal Heating Capacity	Hot water (Btu/h)	243,105	299,250	392,160	486,210	598,500	784,320	972,420	1,197,000	1,458,630	1,795,500	2,394,000											
	Hot water (Watt)	71,250	87,705	114,936	142,500	175,410	229,871	285,000	350,821	427,500	526,231	701,641											
Power Consumption	Kw. (Input)	17.80	21.40	28.20	35.60	42.80	56.40	71.20	85.60	106.80	128.40	171.20											
	Kw. / TON	0.88	0.86	0.86	0.88	0.86	0.86	0.88	0.86	0.88	0.86	0.86											
	COP.	4.00	4.10	4.08	4.00	4.10	4.08	4.00	4.10	4.00	4.10	4.10											
Compressor	Type	Scroll																					
	V. / Ph. / Hz.	380 / 3 / 50																					
	QTY.	1	2				4				6	8											
Coil	Tube size (Inch)	3/8																					
	QTY.	2	4				8				12	16											
Fan Blade	Type	Aluminium propellers fan																					
	QTY.	2	4				8				12	16											
Condenser Motor	V. / Ph. / Hz.	380 / 3 / 50			220/1/50	380 / 3 / 50			220/1/50	380 / 3 / 50													
	QTY.	2	4				8				12	16											
Refrigerant	Type	R-134a																					
Water Condenser		Tube In Tube																					
HOT Water Temp. InLet	°C (°F)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)	30(68)	55(131)
HOT Water Temp. OutLet	°C (°F)	60 (140)																					
Hot Water Flow Rate	GPM.	9.00	47.60	11.08	58.59	14.52	76.78	18.01	95.20	22.17	117.19	29.05	153.57	36.02	190.40	44.33	234.37	54.02	285.60	66.50	351.56	88.67	468.75
	Liter. /Min.	34.08	180.17	41.95	221.78	54.98	290.63	68.16	360.33	83.90	443.55	109.95	581.26	136.32	720.66	167.80	887.10	204.48	1081.00	251.70	1330.65	335.60	1774.20
Water Pressure Drop	Ft. WG	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0	4.0	7.0
Water Connection In/Out Valve	Inch (FPT.)	2			2-1/2			3			4			5			6						
Dimension	Width	2000			3430			3950			3840			4275			6260			8150			
	Height	1200			1500			1700			1850			2100									
	Depth	1050			1100			1150			2150			2200									
Ambient Working Temp.	°C	10 -> 40																					
Operation Weight	Kgs.	916	1050	1525	1820	1915	2725	3255	3440	4510	4785	6130											

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR FURTHER IMPROVEMENT.

NOTE:-

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- Fouling Factor 0.0005 Ft2 .h.°F/Btu
- RLA. = Rate Load Amp.
- MOCA = Maximum Operating Current Amp.