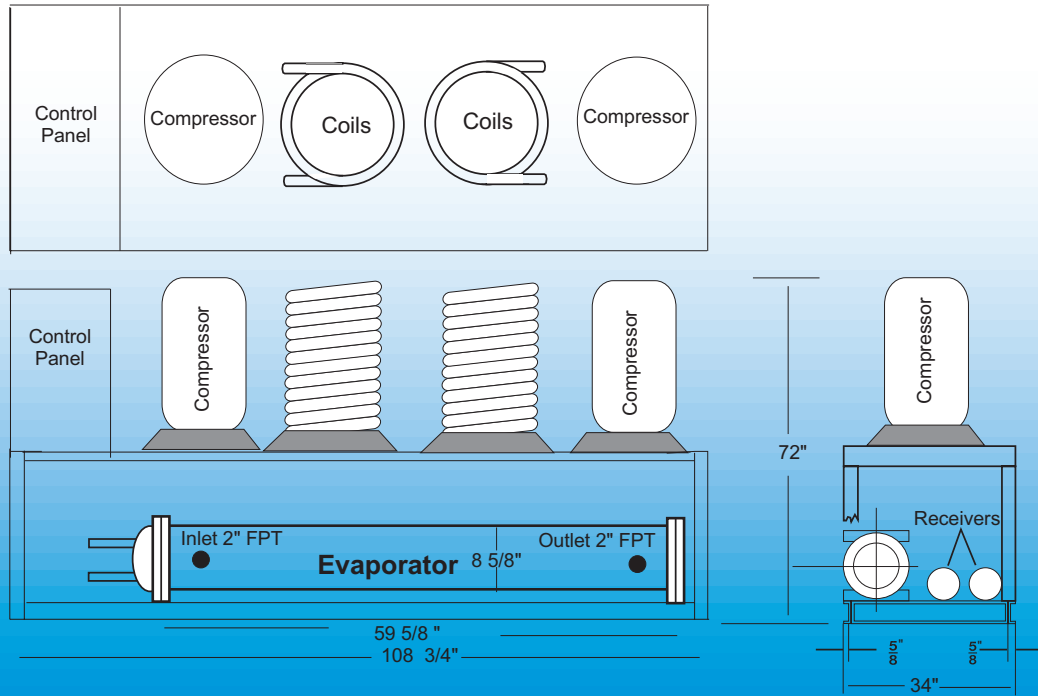


## MODEL HPWS 5 DS 395



## MODEL—HPWS 5 DS 395

Note: In View of Continuous Product Improvements and design, specification are subject to change without Notice

Heating Capacity	395,100 BTUH	Cooling Capacity	350,800 BTUH
Condenser Water Flow	75GPM	Evaporator Water Flow	50 GPM
Pressure Drop (cond.)	5.2 PSI	Pressure Drop (Evap.)	2.38 PSI
Entering Water Temp.	100 °F	Entering Water Temp.	95.0°F
Leaving Water Temp.	110.54 °F	Leaving Water Temp.	80.9°F
COP	8.70	Cooling EER	26.97
Compressors	(2) SZ-125 Maneurop Scroll	Condensers	Double Wall Vented
Voltage	208/230/60/3Ø	Cpnd. Construction	Tube-in-Tube
RLA/LRA	33.2/265ea.	Evaporator	Tube-n-Shell
Control Voltage	24 Volts	Refrigerant Type	R-134A
Minimum Circuit Amp.	40 each compressor	Minimum Unit Amperage.	100.0 Amp.

### **STANDARD FEATURES**

Liquid Receiver	Liquid Line Dryer
Compressors Service Valves	Thermostatic Expansion Valves
Liquid Line Sight Glass	Compressor Rotation Control
Compressor Adjustable Time Delay	High Side Pressure Control (Mechanical)
Single Phase/Voltage Protection	Low Side Pressure Control (Mechanical)
Evaporator Flow Switch Relay	Fused Protection on each Compressor
Condenser Flow Switch Relay	Hinged Pre-wired Control Panel

### **Options**

- Four Year Extended Compressor Warranty
- Extended Parts & Labor Warranty- Year 2 thru 5
- Micro-Processor Based Control System
- Crank Case Heater
- Refrigerant Pump Down Solenoid Valves
- Condenser Water Circulating Pump for each Refrigerant Circuit

Heat Harvester Energy Efficient Products  
 Manufactured by  
 Environmentally Engineered Equipment, Inc.

MODEL HPWS 5 DS 395																
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 80 GPM,											
95 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	402,400	394,000	385,600	377,400	369,200	360,000	350,800	344,000	337,200	324,400	311,600	301,300	291,000	280,700	270,400	
HMBTUH	433,663	427,106	420,549	414,670	408,791	401,980	395,169	391,065	386,962	377,438	367,915	361,266	354,618	347,970	341,322	
WATTS	9,160	9,700	10,240	10,920	11,600	12,300	13,000	13,790	14,580	15,540	16,500	17,570	18,640	19,710	20,780	
EER	43.93	40.62	37.66	34.56	31.83	29.27	26.98	24.95	23.13	20.88	18.88	17.15	15.61	14.24	13.01	
COP	13.87	12.9	12.03	11.13	10.33	9.58	8.91	8.31	7.78	7.12	6.53	6.02	5.57	5.17	4.81	
LV. WTR	84.46	85.68	90.52	95.37	100.22	105.05	109.88	114.78	119.68	124.44	129.2	134.04	138.87	143.7	148.54	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 80 GPM,											
90 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	378,000	370,100	362,200	351,400	324,000	315,800	309,200	322,500	315,800	303,900	292,000	282,200	272,400	262,600	252,800	
HMBTUH	409,400	403,343	397,286	368,772	363,659	357,848	373,637	369,634	365,630	356,972	348,315	342,132	335,950	329,768	323,586	
WATTS	9,200	9,740	10,280	10,950	11,620	12,320	13,020	13,810	14,600	15,550	16,500	17,560	18,620	19,680	20,740	
EER	70	38	35.23	30.26	27.88	25.63	25.28	23.35	21.63	19.54	17.7	16.07	14.63	13.34	12.19	
COP	13.04	12.13	11.32	9.87	9.17	8.51	8.41	7.84	7.34	6.73	6.19	5.71	5.29	4.91	4.57	
LV. WTR	80.24	85.09	89.94	94.22	99.1	103.95	109.34	114.24	119.14	123.93	128.71	133.56	138.4	143.25	148.09	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 80 GPM,											
85 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	353,600	346,200	338,800	331,400	324,000	315,800	307,600	301,000	294,400	283,400	272,400	263,100	253,800	244,500	235,200	
HMBTUH	385,000	379,443	373,886	368,772	363,659	357,848	352,037	348,134	344,230	336,472	328,715	323,032	317,350	311,668	305,986	
WATTS	9,200	9,740	10,280	10,950	11,620	12,320	13,020	13,810	14,600	15,550	16,500	17,560	18,620	19,680	20,740	
EER	38.43	35.54	32.96	30.26	27.88	25.63	23.63	21.8	20.16	18.23	16.51	14.98	13.63	12.42	11.34	
COP	12.26	11.41	10.66	9.87	9.17	8.51	7.92	7.39	6.91	6.34	5.84	5.39	4.99	4.64	4.32	
LV. WTR	82.84	84.49	89.35	94.22	99.1	103.95	108.8	113.71	118.61	123.42	128.22	133.08	137.94	142.79	147.65	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 80 GPM,											
80 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	329,200	322,300	315,400	308,400	301,400	293,700	286,000	279,500	273,000	262,900	252,800	244,000	235,200	226,400	217,600	
HMBTUH	360,736	355,679	350,622	345,875	341,127	335,816	330,506	326,702	322,898	316,006	309,115	303,898	298,682	293,465	288,249	
WATTS	9,240	9,780	10,320	10,980	11,640	12,340	13,040	13,830	14,620	15,560	16,500	17,550	18,600	19,650	20,700	
EER	35.63	32.96	30.56	28.09	25.89	23.8	21.93	20.21	18.67	16.9	15.32	13.9	12.65	11.52	10.51	
COP	11.44	10.66	9.95	9.23	8.59	7.97	7.43	6.92	6.47	5.95	5.49	5.07	4.7	4.38	4.08	
LV. WTR	79.02	83.9	88.77	93.65	98.53	103.4	108.27	113.17	118.08	122.9	127.73	132.6	137.47	142.34	147.21	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 80 GPM,											
75 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	304,800	298,400	292,000	285,400	278,800	271,600	264,400	258,000	251,600	242,400	233,200	224,000	216,000	208,300	200,000	
HMBTUH	336,473	331,916	327,359	322,977	318,596	313,785	308,974	305,270	301,566	295,540	289,515	284,764	280,014	275,263	270,513	
WATTS	9,280	9,820	10,360	11,010	11,660	12,360	13,060	13,850	14,640	15,570	16,500	17,540	18,580	19,620	20,660	
EER	32.84	30.39	28.19	25.92	23.91	21.97	20.25	18.63	17.19	15.57	14.13	12.82	11.66	10.62	9.68	
COP	10.62	9.9	9.26	8.6	8.01	7.44	6.93	6.46	6.04	5.56	5.14	4.76	4.42	4.11	3.84	
LV. WTR	78.42	83.3	88.19	93.08	97.97	102.85	107.73	112.63	117.54	122.39	127.24	132.12	137	141.88	146.77	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 80 GPM,											
70 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	280,400	274,500	268,600	262,400	256,200	249,500	242,800	236,500	230,200	221,900	213,600	205,800	198,000	190,200	182,400	
HMBTUH	312,209	308,152	304,095	300,080	296,064	291,753	287,442	283,838	280,235	275,075	269,915	265,630	261,345	257,061	252,776	
WATTS	9,320	9,860	10,400	11,040	11,680	12,380	13,080	13,870	14,660	15,580	16,500	17,530	18,560	19,590	20,620	
EER	30.09	27.84	25.83	23.77	21.93	20.15	18.56	17.05	15.7	14.24	12.95	11.74	10.67	9.71	8.85	
COP	9.82	9.16	8.57	7.96	7.43	6.9	6.44	6	5.6	5.17	4.79	4.44	4.13	3.84	3.59	
LV. WTR	77.81	82.71	87.61	92.5	97.4	102.3	107.19	112.1	117.01	121.88	126.75	131.64	136.54	141.43	146.32	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 50 GPM,											
65 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	256,000	250,600	245,200	239,400	233,600	227,400	221,200	215,000	208,800	201,400	194,000	186,700	179,400	172,100	164,800	
HMBTUH	288,082	284,525	280,968	277,284	273,600	269,789	265,979	262,475	258,971	254,643	250,315	246,462	242,609	238,756	234,903	
WATTS	9,400	9,940	10,480	11,100	11,720	12,420	13,120	13,910	14,700	15,600	16,500	17,510	18,520	19,530	20,540	
EER	27.23	25.21	23.4	21.57	19.93	18.31	16.86	15.46	14.2	12.91	11.76	10.66	9.69	8.81	8.02	
COP	8.98	8.39	7.86	7.32	6.84	6.36	5.94	5.53	5.16	4.78	4.44	4.12	3.84	3.58	3.35	
LV. WTR	81.53	86.39	91.24	96.1	100.95	105.8	110.64	115.5	120.36	125.19	130.02	134.86	139.71	144.55	149.4	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 50 GPM,											
60 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	231,600	226,700	221,800	216,400	211,000	205,300	199,600	193,500	187,400	180,900	174,400	167,600	160,800	154,000	147,200	
HMBTUH	263,819	260,762	257,705	254,387	251,069	247,758	244,447	241,043	237,639	234,177	230,715	227,328	223,941	220,554	217,167	
WATTS	9,440	9,980	10,520	11,130	11,740	12,440	13,140	13,930	14,720	15,610	16,500	17,500	18,500	19,500	20,500	
EER	24.53	22.72	21.08	19.44	17.97	16.5	15.19	13.89	12.73	11.59	10.57	9.58	8.69	7.9	7.18	
COP	8.19	7.66	7.18	6.7	6.27	5.84	5.45	5.07	4.73	4.4	4.1	3.81	3.55	3.31	3.1	
LV. WTR	80.56	85.43	90.31	95.18	100.05	104.91	109.78	114.65	119.51	124.37	129.23	134.1	138.96	143.83	148.69	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 50 GPM,											
55 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	209,000	204,400	199,800	194,900	190,000	184,700	179,400	173,800	168,200	162,200	156,200	150,000	143,800	137,600	131,400	
HMBTUH	241,287	238,496	235,705	232,887	230,069	227,158	224,247	221,343	218,439	215,477	212,515	209,693	206,872	204,051	201,230	
WATTS	9,480	9,990	10,520	11,130	11,740	12,440	13,140	13,930	14,720	15,610	16,500	17,490	18,480	19,470	20,460	
EER	22.09	20.46	18.99	17.51	16.18	14.85	13.65	12.48	11.43	10.39	9.47	8.58	7.78	7.07	6.42	
COP	7.47	6.99	6.56	6.13	5.74	5.35	5	4.66	4.35	4.04	3.77	3.51	3.28	3.07	2.88	
LV. WTR	79.66	84.54	89.43	94.32	99.21	104.09	108.97	113.86	118.74	123.62	128.5	133.39	138.28	143.17	148.05	
SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 50 GPM,											
50 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	188,000	183,800	179,600	175,000	170,400	165,600	160,800	155,600	150,400	144,900	139,400	133,900	128,000	122,100	116,200	
HMBTUH	220,355	217,9														

COP	6.81	6.39	6	5.61	5.25	4.9	4.58	4.27	4	4.1	4.19	3.58	3.03	2.54	2.1
LV. WTR	78.82	83.72	88.62	93.52	98.42	103.33	108.23	113.13	118.03	123.73	129.43	133.54	137.64	141.75	145.86