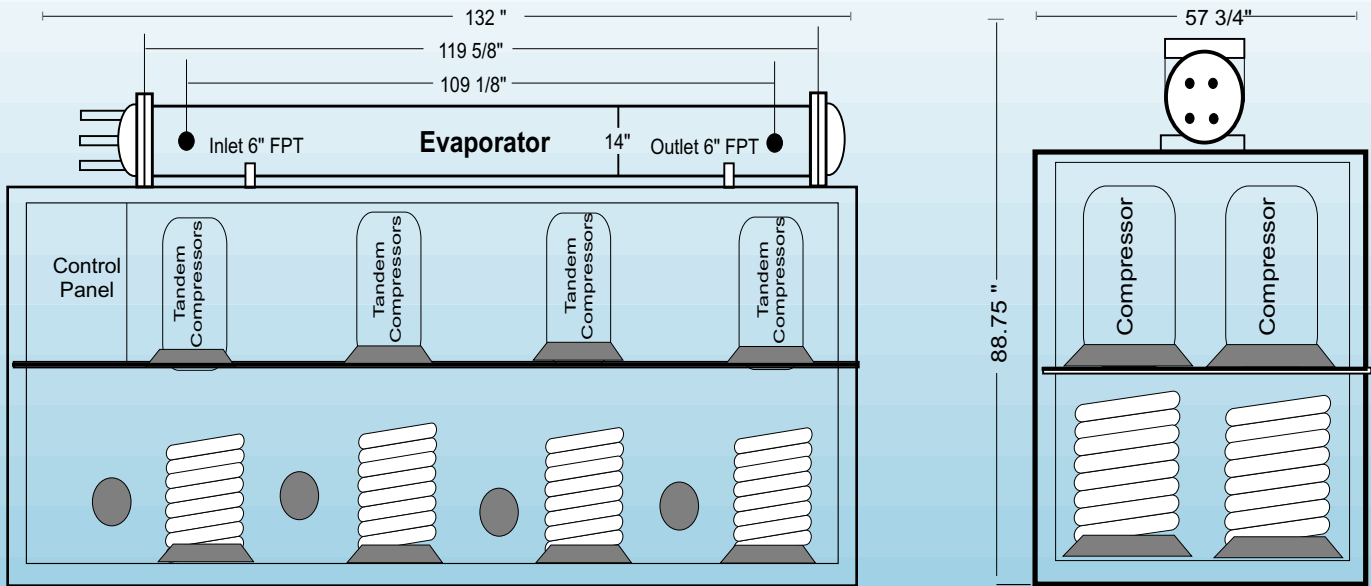


MODEL HPWS 5 MS 2082



MODEL HPWS 5 MS 2082

Heating Capacity	2,081,500 BTUH	Cooling Capacity	1,842,400 BTUH
Condenser Water Flow	400 GPM	Evaporator Water Flow	300 GPM
Pressure Drop (cond.)	5.2 PSI	Pressure Drop (Evap.)	7.1 PSI
Entering Water Temp.	100° F	Entering Water Temp.	95.0° F
Leaving Water Temp.	110.41° F	Leaving Water Temp.	82.71° F
COP	8.70	Cooling EER	26.29
Compressors	(8) SZ-160 Maneurop Scroll	Condensers	Double Wall Vented
Voltage	208/230/60/3Ø	Condenser Construction	Tube-in-Tube
RLA/LRA	39.0/420 ea.	Evaporator	Tube-in-Shell
Control Voltage	24 Volts	Refrigerant Type	R-134A
Minimum Circuit Amp.	50 each compressor	Minimum Unit Amperage.	400 Amp.

STANDARD FEATURES

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

Options

Four Year Extended Compressor Warranty
Warranty for all Parts & Labor Year 2 - 5
Micro-Processor Based Control System
Crankcase Heaters
Refrigerant Pump Down Solenoid Valves
Condenser Water Circulating Pump for each Refrigerant Circuit

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

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

MODEL HPWS 5 MS 2082															
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 400 GPM,														
95 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	2,104,800	2,064,800	2,024,800	1,980,400	1,936,000	1,889,200	1,842,400	1,793,600	1,744,800	1,688,800	1,632,800	1,578,000	1,523,200	1,468,400	1,413,600
HMBTUH	2,276,542	2,246,099	2,215,655	2,183,132	2,150,609	2,116,096	2,081,583	2,048,483	2,015,383	1,974,946	1,934,509	1,898,822	1,863,135	1,827,448	1,791,760
WATTS	50,320	53,120	55,920	59,400	62,880	66,480	70,080	74,680	79,280	83,840	88,400	93,000	99,600	105,200	110,800
EER	41.83	38.87	36.21	33.34	30.79	28.42	26.29	24.02	22.01	20.14	18.47	16.79	15.29	13.96	12.76
COP	13.26	12.39	11.61	10.77	10.02	9.33	8.7	8.04	7.45	6.9	6.41	5.92	5.48	5.09	4.74
LV. WTR	81.39	86.23	91.08	95.92	100.76	105.58	110.41	115.25	120.08	124.88	129.68	134.5	139.32	144.14	148.96
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 400 GPM,														
90 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,977,600	1,939,600	1,901,600	1,738,800	1,699,200	1,657,200	1,728,800	1,682,400	1,636,000	1,583,200	1,530,400	1,478,400	1,426,400	1,374,400	1,322,400
HMBTUH	2,149,069	2,120,626	2,092,182	1,941,123	1,913,263	1,883,550	1,967,437	1,936,464	1,905,490	1,868,254	1,831,017	1,797,857	1,764,697	1,731,536	1,698,376
WATTS	50,240	53,040	55,840	59,280	62,720	66,320	69,920	74,440	78,960	83,520	88,080	93,600	99,120	104,640	110,160
EER	70	36.57	34.05	29.33	27.09	24.99	24.73	22.6	20.72	18.96	17.38	15.79	14.39	13.13	12
COP	12.53	11.71	10.98	9.59	8.94	8.32	8.24	7.62	7.07	6.55	6.09	5.63	5.22	4.85	4.52
LV. WTR	80.75	85.61	90.47	94.71	99.57	104.42	109.84	114.69	119.53	124.35	129.16	133.99	138.83	143.66	148.5
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 400 GPM,														
85 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,850,400	1,814,400	1,778,400	1,738,800	1,699,200	1,657,200	1,615,200	1,571,200	1,527,200	1,477,600	1,428,000	1,378,800	1,329,600	1,280,400	1,231,200
HMBTUH	2,021,869	1,995,426	1,968,982	1,941,123	1,913,263	1,883,550	1,853,837	1,825,264	1,796,690	1,762,654	1,728,617	1,698,257	1,667,897	1,637,536	1,607,176
WATTS	50,240	53,040	55,840	59,280	62,720	66,320	69,920	74,440	78,960	83,520	88,080	93,600	99,120	104,640	110,160
EER	36.83	34.21	31.85	29.33	27.09	24.99	23.1	21.11	19.34	17.69	16.21	14.73	13.41	12.24	11.18
COP	11.79	11.02	10.33	9.59	8.94	8.32	7.77	7.18	6.67	6.18	5.75	5.32	4.93	4.59	4.27
LV. WTR	80.11	84.98	89.85	94.71	99.57	104.42	109.27	114.13	118.99	123.82	128.65	133.49	138.34	143.19	148.04
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 400 GPM,														
80 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,723,200	1,689,200	1,655,200	1,618,000	1,580,800	1,541,200	1,501,600	1,460,000	1,418,400	1,372,000	1,325,600	1,279,200	1,232,800	1,186,400	1,140,000
HMBTUH	1,894,396	1,869,952	1,845,509	1,819,913	1,794,317	1,767,004	1,739,691	1,713,245	1,686,798	1,655,962	1,625,125	1,597,292	1,569,458	1,541,625	1,513,792
WATTS	50,160	52,960	55,760	59,160	62,560	66,160	69,760	74,200	78,640	83,200	87,760	93,200	98,640	104,080	109,520
EER	34.35	31.9	29.68	27.35	25.27	23.3	21.53	19.68	18.04	16.49	15.1	13.73	12.5	11.4	10.41
COP	11.07	10.35	9.7	9.01	8.4	7.83	7.31	6.77	6.28	5.83	5.43	5.02	4.66	4.34	4.05
LV. WTR	79.48	84.35	89.23	94.1	98.98	103.84	108.7	113.57	118.44	123.28	128.13	132.99	137.85	142.71	147.57
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 400 GPM,														
75 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,596,000	1,564,000	1,532,000	1,497,200	1,462,400	1,425,200	1,388,000	1,348,800	1,309,600	1,266,400	1,223,200	1,179,600	1,136,000	1,092,400	1,048,800
HMBTUH	1,766,923	1,744,479	1,722,036	1,698,704	1,675,371	1,650,458	1,625,545	1,601,225	1,576,906	1,549,269	1,521,633	1,496,326	1,471,020	1,445,714	1,420,407
WATTS	50,080	52,880	55,680	59,040	62,400	66,000	69,600	73,960	78,320	82,880	87,440	92,800	98,160	103,520	108,880
EER	31.87	29.58	27.51	25.36	23.44	21.59	19.94	18.24	16.72	15.28	13.99	12.71	11.57	10.55	9.63
COP	10.34	9.67	9.06	8.43	7.87	7.33	6.84	6.34	5.9	5.48	5.1	4.72	4.39	4.09	3.82
LV. WTR	78.84	83.73	88.61	93.5	98.38	103.26	108.13	113.01	117.89	122.75	127.61	132.48	137.36	142.23	147.1
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 400 GPM,														
70 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,468,800	1,438,800	1,408,800	1,376,400	1,344,000	1,309,200	1,274,400	1,237,600	1,200,800	1,160,800	1,120,800	1,080,000	1,039,200	998,400	957,600
HMBTUH	1,639,450	1,619,006	1,598,563	1,577,494	1,556,425	1,533,912	1,511,399	1,489,206	1,467,014	1,442,577	1,418,141	1,395,361	1,372,582	1,349,802	1,327,023
WATTS	50,000	52,800	55,600	58,920	62,240	65,840	69,440	73,720	78,000	82,560	87,120	92,400	97,680	102,960	108,240
EER	29.38	27.25	25.34	23.36	21.59	19.88	18.35	16.79	15.39	14.06	12.87	11.69	10.64	9.7	8.85
COP	9.61	8.98	8.42	7.84	7.33	6.83	6.38	5.92	5.51	5.12	4.77	4.42	4.12	3.84	3.59
LV. WTR	78.2	83.1	88	92.89	97.79	102.67	107.56	112.45	117.34	122.22	127.09	131.98	136.87	141.75	146.64
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 300 GPM,														
65 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,341,600	1,313,600	1,285,600	1,255,600	1,225,600	1,193,200	1,160,800	1,126,400	1,092,000	1,055,200	1,018,400	980,400	942,400	904,400	866,400
HMBTUH	1,511,704	1,493,260	1,474,817	1,455,875	1,436,933	1,416,820	1,396,707	1,376,368	1,356,030	1,334,793	1,313,556	1,293,031	1,272,505	1,251,980	1,231,454
WATTS	49,840	52,640	55,440	58,680	61,920	65,520	69,120	73,240	77,360	81,920	86,480	91,600	96,720	101,840	106,960
EER	26.92	24.95	23.19	21.4	19.79	18.21	16.79	15.38	14.12	12.88	11.78	10.7	9.74	8.88	8.1
COP	8.89	8.31	7.79	7.27	6.8	6.34	5.92	5.51	5.14	4.77	4.45	4.14	3.85	3.6	3.37
LV. WTR	80.08	84.96	89.84	94.71	99.58	104.45	109.32	114.18	119.04	123.9	128.76	133.62	138.49	143.35	148.21
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 300 GPM,														
60 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,214,400	1,188,400	1,162,400	1,134,800	1,107,200	1,077,200	1,047,200	1,015,200	983,200	949,600	916,000	880,800	845,600	810,400	775,200
HMBTUH	1,384,231	1,367,787	1,351,344	1,334,665	1,317,987	1,300,274	1,282,560	1,264,349	1,246,138	1,228,101	1,210,064	1,192,066	1,174,067	1,156,069	1,138,070
WATTS	49,760	52,560	55,360	58,560	61,760	65,360	68,960	73,000	77,040	81,600	86,160	91,200	96,240	101,280	106,320
EER	24.41	22.61	21	19.38	17.93	16.48	15.19	13.91	12.76	11.64	10.63	9.66	8.79	8	7.29
COP	8.15	7.62	7.15	6.68	6.25	5.83	5.45	5.07	4.74	4.41	4.11	3.83	3.57	3.34	3.14
LV. WTR	79.23	84.12	89.01	93.9	98.79	103.67	108.55	113.43	118.31	123.19	128.07	132.95	137.83	142.71	147.59
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 300 GPM,														
55 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,096,000	1,072,400	1,048,800	1,022,800	996,800	969,200	941,600	912,400	883,200	852,000	820,800	788,400	756,000	723,600	691,200
HMBTUH	1,265,558	1,251,378	1,237,198	1,221,983	1,206,768	1,191,318	1,175,868	1,160,457	1,145,045	1,129,136	1,113,226	1,098,027	1,082,829	1,067,630	1,052,432

WATTS	49,680	52,440	55,200	58,360	61,520	65,080	68,640	72,680	76,720	81,200	85,680	90,720	95,760	100,800	105,840
EER	22.06	20.45	19	17.53	16.2	14.89	13.72	12.55	11.51	10.49	9.58	8.69	7.89	7.18	6.53
COP	7.46	6.99	6.57	6.13	5.75	5.36	5.02	4.68	4.37	4.07	3.81	3.55	3.31	3.1	2.91
LV. WTR	78.44	83.35	88.25	93.15	98.05	102.95	107.84	112.74	117.64	122.53	127.42	132.32	137.22	142.12	147.02
SOURCE															
EWTEMP					ENTER WATER TEMP. F @ 300 GPM,										
50 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	986,400	964,400	942,400	918,800	895,200	869,600	844,000	817,200	790,400	762,000	733,600	703,600	673,600	643,600	613,600
HMBTUH	1,155,412	1,142,695	1,129,978	1,117,164	1,104,349	1,090,762	1,077,176	1,064,028	1,050,880	1,037,770	1,024,661	1,011,726	998,791	985,856	972,921
WATTS	49,520	52,240	54,960	58,120	61,280	64,800	68,320	72,320	76,320	80,800	85,280	90,280	95,280	100,280	105,280
EER	19.92	18.46	17.15	15.81	14.61	13.42	12.35	11.3	10.36	9.43	8.6	7.79	7.07	6.42	5.83
COP	6.84	6.41	6.02	5.63	5.28	4.93	4.62	4.31	4.03	3.76	3.52	3.28	3.07	2.88	2.71
LV. WTR	77.71	82.62	87.54	92.45	97.37	102.27	107.18	112.1	117.01	121.92	126.83	131.75	136.66	141.58	146.49