

Heating Capacity	1,180,400 BTUH	Cooling Capacity
Condenser Water Flow	200 GPM	
Pressure Drop (cond.)	5.2 PSI	
Entering Water Temp.	100 °F	
Leaving Water Temp.	111.8 °F	
COP	8.43	
Compressors	(4) SZ-185 Maneurop Scroll	
Voltage	460/60/3Ø	
RLA/LRA	22.3/175 ea.	
Control Voltage	24 Volts	
Minimum Circuit Amp.	30 each compressor	

MODEL HPWS 5 MS 1180															
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
95 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,185,600	1,165,200	1,144,800	1,120,600	1,096,400	1,068,400	1,040,400	1,012,600	984,800	954,600	924,400	891,800	859,200	826,600	794,000
HMBTUH	1,284,031	1,269,638	1,255,245	1,237,802	1,220,360	1,200,415	1,180,470	1,160,724	1,140,979	1,120,267	1,099,555	1,077,877	1,056,198	1,034,520	1,012,842
WATTS	28,840	30,600	32,360	34,340	36,320	38,680	41,040	43,400	45,760	48,540	51,320	54,520	57,720	60,920	64,120
EER	41.11	38.08	35.38	32.63	30.19	27.62	25.35	23.33	21.52	19.67	18.01	16.36	14.89	13.57	12.38
COP	13.04	12.16	11.37	10.56	9.84	9.09	8.43	7.84	7.31	6.76	6.28	5.79	5.36	4.98	4.63
LV. WTR	82.85	87.7	92.56	97.38	102.21	107.01	111.81	116.61	121.41	126.21	131	135.78	140.57	145.35	150.13
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
90 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,114,400	1,094,800	1,075,200	983,800	962,000	937,200	976,400	950,000	923,600	895,000	866,400	835,600	804,800	774,000	743,200
HMBTUH	1,212,831	1,199,170	1,185,508	1,100,798	1,085,687	1,068,805	1,115,923	1,097,578	1,079,233	1,060,053	1,040,873	1,020,858	1,000,843	980,828	960,813
WATTS	28,840	30,580	32,320	34,280	36,240	38,560	40,880	43,240	45,600	48,360	51,120	54,280	57,440	60,600	63,760
EER	70	35.8	33.27	28.7	26.55	24.3	23.88	21.97	20.25	18.51	16.95	15.39	14.01	12.77	11.66
COP	12.32	11.49	10.75	9.41	8.78	8.12	8	7.44	6.93	6.42	5.97	5.51	5.11	4.74	4.42
LV. WTR	82.13	87	91.86	96.01	100.86	105.69	111.16	115.98	120.8	125.6	130.41	135.21	140.01	144.81	149.61
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
85 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,043,200	1,024,400	1,005,600	983,800	962,000	937,200	912,400	887,400	862,400	835,400	808,400	779,400	750,400	721,400	692,400
HMBTUH	1,141,631	1,128,770	1,115,908	1,100,798	1,085,687	1,068,805	1,051,923	1,034,978	1,018,033	1,000,453	982,873	964,658	946,443	928,228	910,013
WATTS	28,840	30,580	32,320	34,280	36,240	38,560	40,880	43,240	45,600	48,360	51,120	54,280	57,440	60,600	63,760
EER	36.17	33.5	31.11	28.7	26.55	24.3	22.32	20.52	18.91	17.27	15.81	14.36	13.06	11.9	10.86
COP	11.6	10.82	10.12	9.41	8.78	8.12	7.54	7.01	6.54	6.06	5.63	5.21	4.83	4.49	4.18
LV. WTR	81.42	86.29	91.16	96.01	100.86	105.69	110.52	115.35	120.18	125.01	129.83	134.65	139.47	144.29	149.1
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
80 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	972,000	954,000	936,000	915,400	894,800	871,600	848,400	824,800	801,200	775,800	750,400	723,200	696,000	668,800	641,600
HMBTUH	1,070,431	1,058,301	1,046,172	1,032,193	1,018,214	1,002,796	987,377	971,832	956,287	940,238	924,190	907,639	891,087	874,536	857,984
WATTS	28,840	30,560	32,280	34,220	36,160	38,440	40,720	43,080	45,440	48,180	50,920	54,040	57,160	60,280	63,400
EER	33.7	31.22	29	26.75	24.75	22.67	20.83	19.15	17.63	16.1	14.74	13.38	12.18	11.09	10.12
COP	10.87	10.15	9.5	8.84	8.25	7.64	7.1	6.61	6.17	5.72	5.32	4.92	4.57	4.25	3.97
LV. WTR	80.71	85.59	90.47	95.33	100.19	105.03	109.88	114.72	119.57	124.41	129.25	134.08	138.91	143.75	148.58
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
75 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	900,800	883,600	866,400	847,000	827,600	806,000	784,400	762,200	740,000	716,200	692,400	667,000	641,600	616,200	590,800
HMBTUH	999,231	987,833	976,435	963,588	950,741	936,786	922,831	908,686	894,541	880,024	865,507	850,619	835,731	820,843	805,956
WATTS	28,840	30,540	32,240	34,160	36,080	38,320	40,560	42,920	45,280	48,000	50,720	53,800	56,880	59,960	63,040
EER	31.23	28.93	26.87	24.8	22.94	21.03	19.34	17.76	16.34	14.92	13.65	12.4	11.28	10.28	9.37
COP	10.15	9.48	8.87	8.26	7.72	7.16	6.67	6.2	5.79	5.37	5	4.63	4.3	4.01	3.75
LV. WTR	80	84.88	89.77	94.64	99.51	104.37	109.23	114.09	118.95	123.8	128.66	133.51	138.36	143.21	148.06
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
70 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	829,600	813,200	796,800	778,600	760,400	740,400	720,400	699,600	678,800	656,600	634,400	610,800	587,200	563,600	540,000
HMBTUH	928,031	917,365	906,699	894,983	883,268	870,777	858,285	845,540	832,795	819,810	806,825	793,600	780,376	767,151	753,927
WATTS	28,840	30,520	32,200	34,100	36,000	38,200	40,400	42,760	45,120	47,820	50,520	53,560	56,600	59,640	62,680
EER	28.77	26.64	24.75	22.83	21.12	19.38	17.83	16.36	15.04	13.73	12.56	11.4	10.37	9.45	8.62
COP	9.43	8.81	8.25	7.69	7.19	6.68	6.22	5.79	5.41	5.02	4.68	4.34	4.04	3.77	3.52
LV. WTR	79.28	84.18	89.07	93.95	98.84	103.71	108.59	113.46	118.33	123.2	128.07	132.94	137.81	142.67	147.54
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 140 GPM,														
65 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	758,400	742,800	727,200	710,200	693,200	674,800	656,400	637,000	617,600	597,000	576,400	554,600	532,800	511,000	489,200
HMBTUH	856,831	846,828	836,826	826,174	815,522	804,357	793,193	781,848	770,502	758,981	747,460	735,762	724,065	712,367	700,669
WATTS	28,840	30,480	32,120	33,980	35,840	37,960	40,080	42,440	44,800	47,460	50,120	53,080	56,040	59,000	61,960
EER	26.3	24.37	22.64	20.9	19.34	17.78	16.38	15.01	13.79	12.58	11.5	10.45	9.51	8.66	7.9
COP	8.7	8.14	7.63	7.12	6.67	6.21	5.8	5.4	5.04	4.69	4.37	4.06	3.79	3.54	3.31
LV. WTR	82.25	87.1	91.96	96.81	101.65	106.5	111.34	116.17	121.01	125.85	130.68	135.52	140.35	145.18	150.01
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 140 GPM,														
60 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	687,200	672,400	657,600	641,800	626,000	609,200	592,400	574,400	556,400	537,400	518,400	498,400	478,400	458,400	438,400
HMBTUH	785,631	776,360	767,089	757,569	748,049	738,348	728,647	718,702	708,756	698,767	688,777	678,743	668,709	658,675	648,641
WATTS	28,840	30,460	32,080	33,920	35,760	37,840	39,920	42,280	44,640	47,280	49,920	52,840	55,760	58,680	61,600
EER	23.83	22.07	20.5	18.92	17.51	16.1	14.84	13.59	12.46	11.37	10.38	9.43	8.58	7.81	7.12
COP	7.98	7.47	7.01	6.54	6.13	5.72	5.35	4.98	4.65	4.33	4.04	3.76	3.51	3.29	3.09
LV. WTR	81.23	86.1	90.96	95.83	100.69	105.55	110.41	115.27	120.13	124.99	129.84	134.7	139.56	144.41	149.27
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 140 GPM,														
55 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	620,000	606,600	593,200	578,600	564,000	548,400	532,800	516,200	499,600	482,000	464,400	446,000	427,600	409,200	390,800
HMBTUH	718,158	710,219	702,279	693,959	685,639	677,070	668,501	659,887	651,274	642,616	633,958	625,456	616,953	608,451	599,949
WATTS	28,760	30,360	31,960	33,800	35,640	37,700	39,760	42,100	44,440	47,060	49,680	52,580	55,480	58,380	61,280
EER	21.56	19.98	18.56	17.12	15.82	14.55	13.4	12.26	11.24	10.24	9.35	8.48	7.71	7.01	6.38
COP	7.32	6.85	6.44	6.02	5.64	5.26	4.93	4.59	4.29	4	3.74	3.49	3.26	3.05	2.87
LV. WTR	80.26	85.15	90.04	94.92	99.8	104.68	109.55	114.43	119.31	124.18	129.06	133.94	138.82	143.7	148.57

SOURCE															
EWTEMP					ENTER WATER TEMP. F @ 140 GPM,										
50 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	558,000	545,600	533,200	519,800	506,400	492,000	477,600	462,400	447,200	431,000	414,800	398,000	381,200	364,400	347,600
HMBTUH	655,885	648,877	641,870	634,682	627,493	620,124	612,755	605,405	598,055	590,728	583,402	576,500	569,598	562,695	555,793
WATTS	28,680	30,260	31,840	33,660	35,480	37,540	39,600	41,900	44,200	46,800	49,400	52,300	55,200	58,100	61,000
EER	19.46	18.03	16.75	15.44	14.27	13.11	12.06	11.04	10.12	9.21	8.4	7.61	6.91	6.27	5.7
COP	6.7	6.28	5.91	5.52	5.18	4.84	4.53	4.23	3.96	3.7	3.46	3.23	3.02	2.84	2.67
LV. WTR	79.37	84.27	89.17	94.07	98.97	103.86	108.76	113.65	118.55	123.44	128.34	133.24	138.14	143.04	147.94