

Heating Capacity	790,300 BTUH
Condenser Water Flow	120 GPM
Pressure Drop (cond.)	5.2 PSI
Entering Water Temp.	100 °F
Leaving Water Temp.	113.17°F
COP	8.91
Compressors	(4) SZ-125 Maneurop Scroll
Voltage	460/60/3Ø
RLA/LRA	14.9/120 ea.
Control Voltage	24 Volts
Minimum Circuit Amp.	20 each compressor

Cooling Capacity

MODEL HPWS 5 MS 790															
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 120 GPM,														
95 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	804,800	788,000	771,200	754,800	738,400	720,000	701,600	688,000	674,400	648,800	623,200	602,600	582,000	561,400	540,800
HMBTUH	867,326	854,212	841,098	829,340	817,582	803,960	790,338	782,131	773,923	754,876	735,829	722,533	709,237	695,940	682,644
WATTS	18,320	19,400	20,480	21,840	23,200	24,600	26,000	27,580	29,160	31,080	33,000	35,140	37,280	39,420	41,560
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	83.02	89.24	94.02	98.83	103.63	108.4	113.18	118.04	122.9	127.59	132.27	137.05	141.83	146.6	151.38
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 120 GPM,														
90 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	756,000	740,200	724,400	662,800	648,000	631,600	658,400	645,000	631,600	607,800	584,000	564,400	544,800	525,200	505,600
HMBTUH	818,799	806,685	794,571	737,545	727,318	715,696	747,275	739,267	731,260	713,944	696,629	684,265	671,900	659,536	647,171
WATTS	18,400	19,480	20,560	21,900	23,240	24,640	26,040	27,620	29,200	31,100	33,000	35,120	37,240	39,360	41,480
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	83.65	88.45	93.25	97.3	102.13	106.93	112.46	117.33	122.19	126.9	131.62	136.41	141.2	146	150.79
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 120 GPM,														
85 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	707,200	692,400	677,600	662,800	648,000	631,600	615,200	602,000	588,800	566,800	544,800	526,200	507,600	489,000	470,400
HMBTUH	769,999	758,885	747,771	737,545	727,318	715,696	704,075	696,267	688,460	672,944	657,429	646,065	634,700	623,336	611,971
WATTS	18,400	19,480	20,560	21,900	23,240	24,640	26,040	27,620	29,200	31,100	33,000	35,120	37,240	39,360	41,480
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	87.65	92.47	97.3	102.13	106.93	111.74	116.61	121.48	126.22	130.96	135.77	140.58	145.39	150.2
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 120 GPM,														
80 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	658,400	644,600	630,800	616,800	602,800	587,400	572,000	559,000	546,000	525,800	505,600	488,000	470,400	452,800	435,200
HMBTUH	721,472	711,358	701,244	691,749	682,255	671,633	661,011	653,404	645,796	632,013	618,229	607,796	597,364	586,931	576,498
WATTS	18,480	19,560	20,640	21,960	23,280	24,680	26,080	27,660	29,240	31,120	33,000	35,100	37,200	39,300	41,400
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	82.03	86.86	91.69	96.53	101.38	106.2	111.02	115.89	120.77	125.54	130.31	135.13	139.96	144.79	149.61
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 120 GPM,														
75 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	609,600	596,800	584,000	570,800	557,600	543,200	528,800	516,000	503,200	484,800	466,400	449,800	433,200	416,600	400,000
HMBTUH	672,945	663,831	654,717	645,954	637,191	627,569	617,948	610,540	603,133	591,081	579,029	569,528	560,027	550,526	541,025
WATTS	18,560	19,640	20,720	22,020	23,320	24,720	26,120	27,700	29,280	31,140	33,000	35,080	37,160	39,240	41,320
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	81.22	86.07	90.92	95.77	100.62	105.46	110.3	115.18	120.06	124.86	129.65	134.5	139.34	144.18	149.02
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 120 GPM,														
70 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	560,800	549,000	537,200	524,800	512,400	499,000	485,600	473,000	460,400	443,800	427,200	411,600	396,000	380,400	364,800
HMBTUH	624,418	616,304	608,190	600,159	592,128	583,506	574,884	567,677	560,469	550,149	539,829	531,260	522,691	514,121	505,552
WATTS	18,640	19,720	20,800	22,080	23,360	24,760	26,160	27,740	29,320	31,160	33,000	35,060	37,120	39,180	41,240
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	80.41	85.28	90.14	95.01	99.87	104.73	109.59	114.47	119.34	124.17	129	133.86	138.71	143.57	148.43
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 60 GPM,														
65 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	512,000	501,200	490,400	478,800	467,200	454,800	442,400	430,000	417,600	402,800	388,000	373,400	358,800	344,200	329,600
HMBTUH	576,164	569,050	561,936	554,569	547,201	539,579	531,957	524,950	517,942	509,286	500,629	492,923	485,218	477,512	469,806
WATTS	18,800	19,880	20,960	22,200	23,440	24,840	26,240	27,820	29,400	31,200	33,000	35,020	37,040	39,060	41,080
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	89.21	93.98	98.74	103.49	108.25	112.99	117.74	122.51	127.27	131.98	136.69	141.44	146.18	150.92	155.67
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 60 GPM,														
60 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	463,200	453,400	443,600	432,800	422,000	410,600	399,200	387,000	374,800	361,800	348,800	335,200	321,600	308,000	294,400
HMBTUH	527,637	521,523	515,410	508,773	502,137	495,515	488,894	482,086	475,279	468,354	461,429	454,655	447,881	441,107	434,333
WATTS	18,880	19,960	21,040	22,260	23,480	24,880	26,280	27,860	29,440	31,220	33,000	35,000	37,000	39,000	41,000
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	87.59	92.39	97.19	101.97	106.74	111.52	116.3	121.08	125.85	130.62	135.39	140.16	144.94	149.71	154.48
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 60 GPM,														
55 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	418,000	408,800	399,600	389,800	380,000	369,400	358,800	347,600	336,400	324,400	312,400	300,000	287,600	275,200	262,800
HMBTUH	482,574	476,992	471,410	465,773	460,137	454,315	448,494	442,686	436,879	430,954	425,029	419,387	413,744	408,102	402,460
WATTS	18,920	19,980	21,040	22,260	23,480	24,880	26,280	27,860	29,440	31,220	33,000	34,980	36,960	38,940	40,920
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	86.09	90.91	95.72	100.53	105.34	110.15	114.96	119.76	124.57	129.37	134.17	138.99	143.8	148.61	153.42

SOURCE																
EWTEMP					ENTER WATER TEMP. F @ 60 GPM,											
50 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	
CMBTUH	376,000	367,600	359,200	350,000	340,800	331,200	321,600	311,200	300,800	329,800	358,800	307,400	256,000	204,600	153,200	
HMBTUH	440,710	435,860	431,010	425,973	420,937	416,184	411,430	406,286	401,142	436,149	471,156	426,582	382,008	337,434	292,860	
WATTS	18,960	20,000	21,040	22,260	23,480	24,900	26,320	27,860	29,400	31,160	32,920	34,920	36,920	38,920	40,920	
EER	19.83	18.38	17.07	15.72	14.51	13.3	12.22	11.17	10.23	10.58	10.9	8.8	6.93	5.26	3.74	
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	84.7	89.53	94.37	99.2	104.04	108.88	113.72	118.55	123.38	129.54	135.71	139.23	142.74	146.25	149.77	