

Heating Capacity	1,770,700 BTUH	Cooling Capacity
Condenser Water Flow	280GPM	
Pressure Drop (cond.)	5.2 PSI	
Entering Water Temp.	100 °F	
Leaving Water Temp.	112.65 °F	
COP	8.43	
Compressors	(6) SZ-185 Maneurop Scroll	
Voltage	208/230/60/3Ø	
RLA/LRA	43.5/420 ea.	
Control Voltage	24 Volts	
Minimum Circuit Amp.	50 each compressor	

MODEL HPWS 5 MS 1771															
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 280 GPM,														
95 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,778,400	1,747,800	1,717,200	1,680,900	1,644,600	1,602,600	1,560,600	1,518,900	1,477,200	1,431,900	1,386,600	1,337,700	1,288,800	1,239,900	1,191,000
HMBTUH	1,926,046	1,904,457	1,882,867	1,856,704	1,830,540	1,800,622	1,770,704	1,741,086	1,711,468	1,680,401	1,649,333	1,616,815	1,584,298	1,551,780	1,519,262
WATTS	43,260	45,900	48,540	51,510	54,480	58,020	61,560	65,100	68,640	72,810	76,980	81,780	86,580	91,380	96,180
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	83.76	88.61	93.45	98.27	103.08	107.87	112.65	117.44	122.23	127.01	131.79	136.55	141.32	146.09	150.86
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 280 GPM,														
90 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,671,600	1,642,200	1,612,800	1,475,700	1,443,000	1,405,800	1,464,600	1,425,000	1,385,400	1,342,500	1,299,600	1,253,400	1,207,200	1,161,000	1,114,800
HMBTUH	1,819,246	1,798,754	1,778,262	1,651,196	1,628,531	1,603,208	1,673,885	1,646,367	1,618,849	1,590,079	1,561,309	1,531,286	1,501,264	1,471,242	1,441,219
WATTS	43,260	45,870	48,480	51,420	54,360	57,840	61,320	64,860	68,400	72,540	76,680	81,420	86,160	90,900	95,640
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	83	87.85	92.71	96.8	101.64	106.46	111.96	116.76	121.57	126.36	131.16	135.94	140.73	145.51	150.3
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 280 GPM,														
85 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,564,800	1,536,600	1,508,400	1,475,700	1,443,000	1,405,800	1,368,600	1,331,100	1,293,600	1,253,100	1,212,600	1,169,100	1,125,600	1,082,100	1,038,600
HMBTUH	1,712,446	1,693,154	1,673,862	1,651,196	1,628,531	1,603,208	1,577,885	1,552,467	1,527,049	1,500,679	1,474,309	1,446,986	1,419,664	1,392,342	1,365,019
WATTS	43,260	45,870	48,480	51,420	54,360	57,840	61,320	64,860	68,400	72,540	76,680	81,420	86,160	90,900	95,640
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	82.24	87.1	91.96	96.8	101.64	106.46	111.28	116.09	120.91	125.72	130.53	135.34	140.14	144.95	149.75
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 280 GPM,														
80 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,458,000	1,431,000	1,404,000	1,373,100	1,342,200	1,307,400	1,272,600	1,237,200	1,201,800	1,163,700	1,125,600	1,084,800	1,044,000	1,003,200	962,400
HMBTUH	1,605,646	1,587,452	1,569,257	1,548,289	1,527,321	1,504,194	1,481,066	1,457,748	1,434,430	1,410,358	1,386,285	1,361,458	1,336,631	1,311,803	1,286,976
WATTS	43,260	45,840	48,420	51,330	54,240	57,660	61,080	64,620	68,160	72,270	76,380	81,060	85,740	90,420	95,100
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	81.47	86.34	91.21	96.06	100.91	105.75	110.58	115.42	120.25	125.08	129.91	134.73	139.55	144.37	149.2
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 280 GPM,														
75 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,351,200	1,325,400	1,299,600	1,270,500	1,241,400	1,209,000	1,176,600	1,143,300	1,110,000	1,074,300	1,038,600	1,000,500	962,400	924,300	886,200
HMBTUH	1,498,846	1,481,750	1,464,653	1,445,382	1,426,112	1,405,179	1,384,247	1,363,029	1,341,811	1,320,036	1,298,261	1,275,929	1,253,597	1,231,265	1,208,933
WATTS	43,260	45,810	48,360	51,240	54,120	57,480	60,840	64,380	67,920	72,000	76,080	80,700	85,320	89,940	94,560
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	80.71	85.59	90.47	95.33	100.19	105.04	109.89	114.74	119.59	124.43	129.28	134.12	138.96	143.8	148.64
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 280 GPM,														
70 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,244,400	1,219,800	1,195,200	1,167,900	1,140,600	1,110,600	1,080,600	1,049,400	1,018,200	984,900	951,600	916,200	880,800	845,400	810,000
HMBTUH	1,392,046	1,376,047	1,360,048	1,342,475	1,324,902	1,306,165	1,287,428	1,268,310	1,249,192	1,229,714	1,210,237	1,190,400	1,170,564	1,150,727	1,130,890
WATTS	43,260	45,780	48,300	51,150	54,000	57,300	60,600	64,140	67,680	71,730	75,780	80,340	84,900	89,460	94,020
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	79.95	84.83	89.72	94.59	99.47	104.33	109.2	114.06	118.93	123.79	128.65	133.51	138.36	143.22	148.08
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
65 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,137,600	1,114,200	1,090,800	1,065,300	1,039,800	1,012,200	984,600	955,500	926,400	895,500	864,600	831,900	799,200	766,500	733,800
HMBTUH	1,285,246	1,270,242	1,255,238	1,239,261	1,223,283	1,206,536	1,189,790	1,172,772	1,155,754	1,138,471	1,121,189	1,103,643	1,086,097	1,068,551	1,051,004
WATTS	43,260	45,720	48,180	50,970	53,760	56,940	60,120	63,660	67,200	71,190	75,180	79,620	84,060	88,500	92,940
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	82.86	87.71	92.56	97.4	102.24	107.07	111.9	116.73	121.56	126.39	131.22	136.04	140.87	145.69	150.51
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
60 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	1,030,800	1,008,600	986,400	962,700	939,000	913,800	888,600	861,600	834,600	806,100	777,600	747,600	717,600	687,600	657,600
HMBTUH	1,178,446	1,164,540	1,150,634	1,136,353	1,122,073	1,107,522	1,092,970	1,078,052	1,063,134	1,048,150	1,033,165	1,018,114	1,003,063	988,012	972,961
WATTS	43,260	45,690	48,120	50,880	53,640	56,760	59,880	63,420	66,960	70,920	74,880	79,260	83,640	88,020	92,400
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	81.79	86.65	91.51	96.37	101.23	106.08	110.93	115.78	120.64	125.49	130.34	135.19	140.03	144.88	149.73
SOURCE															
EWTEMP	ENTER WATER TEMP. F @ 200 GPM,														
55 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140

CMBTUH	930,000	909,900	889,800	867,900	846,000	822,600	799,200	774,300	749,400	723,000	696,600	669,000	641,400	613,800	586,200
HMBTUH	1,077,237	1,065,328	1,053,419	1,040,939	1,028,459	1,015,605	1,002,751	989,831	976,911	963,924	950,937	938,183	925,430	912,676	899,923
WATTS	43,140	45,540	47,940	50,700	53,460	56,550	59,640	63,150	66,660	70,590	74,520	78,870	83,220	87,570	91,920
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	80.78	85.66	90.54	95.41	100.29	105.16	110.03	114.9	119.77	124.64	129.51	134.39	139.26	144.13	149
SOURCE															
EWTEMP						ENTER WATER TEMP. F @ 200 GPM,									
50 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	837,000	818,400	799,800	779,700	759,600	738,000	716,400	693,600	670,800	646,500	622,200	597,000	571,800	546,600	521,400
HMBTUH	983,827	973,316	962,805	952,022	941,240	930,186	919,132	908,107	897,082	886,093	875,103	864,750	854,396	844,043	833,690
WATTS	43,020	45,390	47,760	50,490	53,220	56,310	59,400	62,850	66,300	70,200	74,100	78,450	82,800	87,150	91,500
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	79.84	84.74	89.63	94.52	99.42	104.31	109.2	114.08	118.97	123.86	128.75	133.65	138.55	143.44	148.34