



Front & Rear View

Left & Right Side View

Heating Capacity	1,430.8 MBTUH
Condenser Water Flow	250 GPM
Pressure Drop (cond.)	5.8 PSI
Entering Water Temp.	100
Leaving Water Temp.	111.45
COP	5.82
Compressors	(4) SZ 300 Maneurop Scroll
Voltage	460/3/60
RLA/LRA	49.3/270
Control Voltage	24 Volts
Minimum Circuit Amp.	60 compressor - ea.

Cooling Capacity	1,189.2MBTUH
Evaporator Construction	Copper/Aluminum
Cabinet Construction	G-0- Galvanized
Entering Wet Bulb Temp.	72 F
Water Pump 2 - 2.0 HP ea.	460/3/60-
Cooling EER	16.5
Condensers	Double Wall Vented
Construction (Cond.)	Tube-in-Tube
Fans (4) 1.5 HP	460/1
Refrigerant Type	R-134a
Minimum Unit Amperage.	250 Amp.

STANDARD FEATURES

Options

- | | |
|--------------------------------|-------------------------------|
| Liquid Receiver | Liquid Line Dryer |
| Compressors Service Valves | Thermostatic Expansion Valves |
| Liquid Line Sight Glass | Insulated Suction Lines |
| Comp Time Delay | High Side Pressure Control |
| Phase/Current Protection | Low Side Pressure Control |
| One Year Warranty on all Parts | Hinged Control Panel |

- Micro-Processor Based Control System
- Painted Galvanize
- Blower
- Refrigerant Pump Down Solenoid Valves
- TechniCoat 10-1 Evaporator Coil Coating
- Warranty on all Parts & Labor Year 2-5

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

Heat Harvester Energy Efficient Products
 Manufactured by
H H Systems, Inc.

MODEL HPAS 5 MS 100 HP -4													
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
72 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	1,418,497	1,391,111	1,363,726	1,306,169	1,248,612	1,218,905	1,189,198	1,159,027	1,128,857	1,098,221	1,067,586	1,036,487	1,005,388
HMBTUH	1,576,498	1,558,351	1,540,202	1,503,300	1,466,399	1,448,620	1,430,845	1,413,855	1,396,866	1,380,991	1,365,118	1,350,497	1,335,876
WATTS	47,544	50,251	52,957	59,009	65,061	68,556	72,052	75,914	79,776	84,101	88,426	93,254	98,082
EER	30	28	26	22	19	18	17	15	14	13	12	11	10
COP	9.72	9.09	8.52	7.46	6.6	6.19	5.82	5.46	5.13	4.81	4.52	4.24	3.99
LV. WTR	82.62	87.47	92.33	97.03	101.74	106.59	111.45	116.32	121.18	126.05	130.93	135.81	140.69
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
67 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	1,308,954	1,283,425	1,257,895	1,204,052	1,150,208	1,122,358	1,094,508	1,066,194	1,037,880	1,009,101	980,323	951,080	921,838
HMBTUH	1,466,863	1,450,478	1,434,095	1,400,767	1,367,439	1,351,473	1,335,503	1,320,418	1,305,333	1,291,315	1,277,298	1,264,533	1,251,769
WATTS	47,517	50,196	52,876	58,887	64,898	68,380	71,861	75,737	79,613	83,938	88,263	93,091	97,919
EER	28	26	24	20	18	16	15	14	13	12	11	10	9
COP	9.04	8.47	7.95	6.97	6.17	5.79	5.45	5.11	4.8	4.51	4.24	3.98	3.75
LV. WTR	81.74	86.61	91.48	96.21	100.94	105.82	110.69	115.57	120.45	125.33	130.22	135.12	140.02
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
62 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	1,205,908	1,181,772	1,157,635	1,107,041	1,056,446	1,030,917	1,005,388	978,930	952,473	925,551	898,629	871,708	844,786
HMBTUH	1,363,725	1,348,593	1,333,463	1,303,292	1,273,120	1,259,472	1,245,827	1,232,550	1,219,277	1,207,161	1,195,048	1,184,697	1,174,345
WATTS	47,490	50,128	52,767	58,751	64,735	68,216	71,698	75,560	79,423	83,761	88,100	92,955	97,810
EER	25	24	22	19	16	15	14	13	12	11	10	9	9
COP	8.41	7.88	7.4	6.5	5.76	5.41	5.09	4.78	4.5	4.22	3.97	3.73	3.52
LV. WTR	80.91	85.79	90.67	95.43	100.19	105.08	109.97	114.86	119.76	124.66	129.56	134.48	139.4
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
57 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	1,108,433	1,086,153	1,063,873	1,016,992	970,111	945,974	921,838	897,237	872,636	847,571	822,506	797,441	772,376
HMBTUH	1,265,970	1,252,649	1,239,329	1,212,779	1,186,229	1,173,928	1,161,629	1,150,256	1,138,884	1,128,673	1,118,461	1,110,010	1,101,563
WATTS	47,408	50,033	52,658	58,615	64,572	68,040	71,508	75,384	79,260	83,612	87,964	92,832	97,701
EER	23	22	20	17	15	14	13	12	11	10	9	9	8
COP	7.82	7.34	6.9	6.06	5.38	5.06	4.76	4.47	4.21	3.96	3.73	3.5	3.3
LV. WTR	80.13	85.03	89.92	94.71	99.49	104.4	109.3	114.21	119.11	124.03	128.95	133.88	138.82
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
52 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	1,017,456	996,569	975,681	932,049	888,418	866,137	843,857	820,649	797,441	774,696	751,952	728,744	705,535
HMBTUH	1,174,717	1,162,693	1,150,672	1,127,324	1,103,976	1,093,532	1,083,088	1,073,109	1,063,129	1,055,286	1,047,443	1,040,945	1,034,446
WATTS	47,327	49,924	52,522	58,465	64,408	67,876	71,344	75,220	79,096	83,462	87,828	92,724	97,620
EER	22	20	19	16	14	13	12	11	10	9	9	8	7
COP	7.27	6.82	6.42	5.65	5.02	4.72	4.45	4.18	3.94	3.7	3.49	3.29	3.1
LV. WTR	79.4	84.31	89.21	94.02	98.84	103.75	108.67	113.59	118.51	123.45	128.38	133.33	138.28
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
47 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	932,049	912,554	893,059	852,677	812,294	791,406	770,519	749,631	728,744	707,392	686,040	664,689	643,337
HMBTUH	1,089,030	1,078,310	1,067,586	1,047,443	1,027,296	1,018,244	1,009,194	1,001,582	993,968	987,517	981,067	976,518	971,968
WATTS	47,245	49,816	52,386	58,316	64,245	67,713	71,181	75,071	78,960	83,326	87,692	92,615	97,538
EER	20	18	17	15	13	12	11	10	9	8	8	7	7
COP	6.75	6.34	5.97	5.26	4.69	4.41	4.15	3.91	3.69	3.47	3.28	3.09	2.92
LV. WTR	78.72	83.63	88.54	93.38	98.22	103.15	108.08	113.02	117.95	122.9	127.85	132.82	137.78
WB TE,P	ENTERING WATER TEMP. F @ 250 GPM												
42 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	852,212	834,110	816,007	778,874	741,740	722,245	702,750	683,255	663,760	644,265	624,770	605,275	585,780
HMBTUH	1,008,821	999,446	990,070	973,128	956,186	948,527	940,868	931,417	928,520	924,018	919,517	916,872	914,227
WATTS	47,136	49,693	52,250	58,166	64,082	67,550	71,018	74,661	78,824	83,217	87,610	92,547	97,484
EER	18	17	16	13	12	11	10	15	8	8	7	7	6
COP	6.27	5.89	5.55	4.9	4.37	4.11	3.88	5.45	3.45	3.25	3.08	2.9	2.75
LV. WTR	78.07	83	87.92	92.79	97.65	102.59	107.53	111.65	117.43	122.4	127.36	132.34	137.32
LV. WTR	74.8	79.75	84.7	89.66	94.61	99.56	104.51	110.43	114.42	119.38	124.33	129.29	134.25

135	140
974,289	943,189
1,321,255	1,306,633
102,910	107,738
9	9
3.76	3.55
145.57	150.46
135	140
892,595	863,352
1,239,001	1,226,236
102,746	107,574
9	8
3.53	3.34
144.92	149.81
135	140
817,864	790,942
1,163,997	1,153,648
102,666	107,522
8	7
3.32	3.14
144.32	149.23
135	140
747,310	722,245
1,093,115	1,084,665
102,570	107,438
7	7
3.12	2.96
143.75	148.68
135	140
682,327	659,119
1,027,941	1,021,443
102,514	107,410
7	6
2.94	2.79
143.23	148.17
135	140
621,985	600,633
967,422	962,875
102,462	107,386
6	6
2.77	2.63
142.74	147.71
135	140
566,285	546,790
911,585	908,937
102,422	107,358
6	5
2.61	2.48
142.3	147.27
139.21	144.17