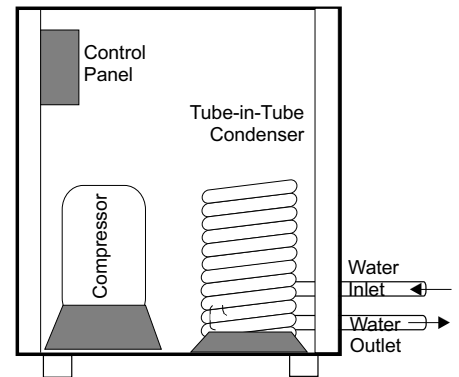
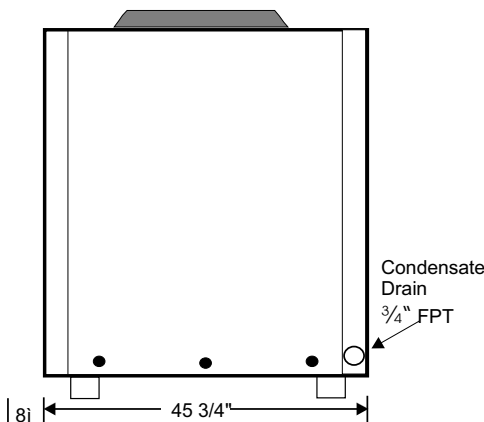


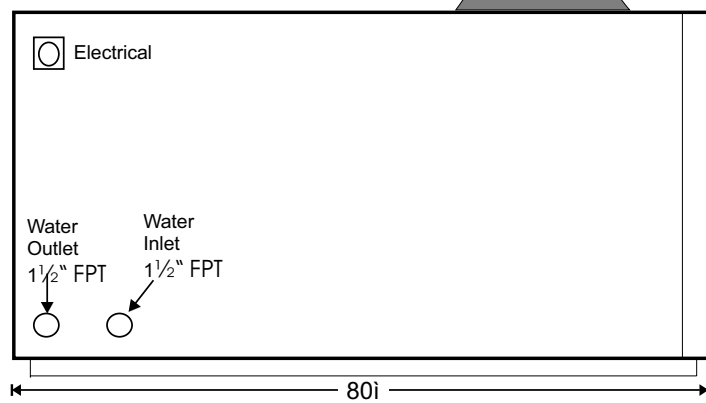
Front View



Right Side



Left Side



Back View

MODEL HPAS 5 SS 103

Heating Capacity	103,400 BTUH
Condenser Water Flow	30 GPM
Pressure Drop (cond.)	5.2 PSI
Entering Water Temp.	100 °F
Leaving Water Temp.	106.9 °F
COP	5.48
Compressors	(1) SZ 090 Scroll
Voltage	208/230/60/3Ø
RLA/LRA	28.6/265
Control Voltage	24 Volts
Minimum Circuit Amp.	40 compressor

Cooling Capacity	87,300 BTUH
Evaporator Construction	Copper/Aluminum Fin
Cabinet Construction	Galvanized
Entering Wet Bulb Temp.	72.0°F
Water Pump—1/6 HP	230/1/1.08 Amp
Cooling EER	15.79
Condensers	Double Wall Vented
Construction (Cond.)	Tube-in-Tube
Fan 3/4 HP	230/60/3 - 2.8 Amp
Refrigerant Type	R-134A
Minimum Unit Amperage.	50 Amp.

STANDARD FEATURES

Liquid Receiver	Liquid Line Dryer
Compressors Service Valves	Thermostatic Expansion Valves
Liquid Line Sight Glass	Hinged Control Panel
Insulated Compressor Compartment	Pre-wired Mechanical Controls
Compressor Adjustable Time Delay Relay	Insulated Suction Lines
Single Phase/Voltage Protection	High Side Pressure Control
Five Year Compressor Warranty/One Yr. Parts	Low Side Pressure Control

Options

Micro-Processor Based Control System
Painted Galvanized Cabinet
304 or 316 Stainless Steel Cabinet
TechniCoat 10-1 Coated Evaporator Coil
Blower
Refrigerant Pump Down Solenoid Valves
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
 Environmentally Engineered Equipment, Inc.

MODEL HPAS 5 SS 103															
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
72 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	101,100	99,000	96,900	94,600	92,300	89,800	87,300	84,650	82,000	79,200	76,400	73,450	70,500	67,550	64,600
HMBTUH	112,158	110,809	109,460	107,996	106,532	104,988	103,443	101,869	100,294	98,654	97,015	95,396	93,777	92,158	90,539
WATTS	4,040	4,260	4,480	4,725	4,970	5,250	5,530	5,845	6,160	6,500	6,840	7,230	7,620	8,010	8,400
EER	25.02	23.24	21.63	20.02	18.57	17.1	15.79	14.48	13.31	12.18	11.17	10.16	9.25	8.43	7.69
COP	8.13	7.62	7.16	6.7	6.28	5.86	5.48	5.11	4.77	4.45	4.16	3.87	3.61	3.37	3.16
LV. WTR	77.48	82.39	87.3	92.2	97.1	102	106.9	111.79	116.69	121.58	126.47	131.36	136.25	141.15	146.04
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
67 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	92,200	90,250	88,300	86,200	84,100	81,800	79,500	77,050	74,600	72,000	69,400	66,650	63,900	61,150	58,400
HMBTUH	103,326	102,110	100,894	99,630	98,366	97,005	95,643	94,252	92,860	91,420	89,980	88,544	87,108	85,672	84,236
WATTS	4,060	4,275	4,490	4,735	4,980	5,255	5,530	5,840	6,150	6,490	6,830	7,215	7,600	7,985	8,370
EER	22.71	21.11	19.67	18.2	16.89	15.57	14.38	13.19	12.13	11.09	10.16	9.24	8.41	7.66	6.98
COP	7.46	7	6.58	6.17	5.79	5.41	5.07	4.73	4.42	4.13	3.86	3.6	3.36	3.14	2.95
LV. WTR	76.89	81.81	86.73	91.64	96.56	101.47	106.38	111.29	116.19	121.1	126	130.91	135.81	140.71	145.62
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
62 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	83,300	81,500	79,700	77,800	75,900	75,500	71,700	89,700	67,200	83,500	62,400	77,000	57,300	54,750	52,200
HMBTUH	94,495	93,411	92,328	91,264	90,200	110,722	87,843	106,884	85,425	102,886	82,946	98,843	80,440	79,187	77,934
WATTS	4,080	4,290	4,500	4,745	4,990	5,260	5,530	5,835	6,140	6,480	6,820	7,200	7,580	7,960	8,340
EER	20.42	19	17.71	16.4	15.21	18.16	12.97	15.37	10.94	12.89	9.15	10.69	7.56	6.88	6.26
COP	6.79	6.38	6.01	5.64	5.3	6.17	4.65	5.37	4.08	4.65	3.56	4.02	3.11	2.91	2.74
LV. WTR	76.3	81.23	86.16	91.09	96.02	102.38	105.86	112.13	115.7	121.86	125.53	131.59	135.36	140.28	145.2
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
57 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	75,000	73,400	71,800	70,000	68,200	66,300	64,400	62,350	60,300	58,100	55,900	53,600	51,300	49,000	46,700
HMBTUH	86,229	85,346	84,462	83,481	82,500	81,522	80,543	79,517	78,491	77,452	76,412	75,392	74,372	73,352	72,332
WATTS	4,090	4,300	4,510	4,750	4,990	5,260	5,530	5,830	6,130	6,470	6,810	7,185	7,560	7,935	8,310
EER	18.34	17.07	15.92	14.74	13.67	12.6	11.65	10.69	9.84	8.98	8.21	7.46	6.79	6.18	5.62
COP	6.18	5.82	5.49	5.15	4.84	4.54	4.27	4	3.75	3.51	3.29	3.07	2.88	2.71	2.55
LV. WTR	75.75	80.69	85.63	90.57	95.5	100.44	105.37	110.3	115.23	120.17	125.1	130.03	134.96	139.89	144.82
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
52 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	67,400	65,900	64,400	61,600	61,200	59,450	57,700	55,800	53,900	51,900	49,900	47,800	45,700	43,600	41,500
HMBTUH	78,663	78,562	77,779	95,781	76,183	75,355	74,526	73,633	72,740	71,883	71,026	70,206	69,386	68,566	67,746
WATTS	4,100	4,310	4,520	4,755	4,990	5,260	5,530	5,825	6,120	6,455	6,790	7,165	7,540	7,915	8,290
EER	16.44	15.29	14.25	17.16	12.26	11.3	10.43	9.58	8.81	8.04	7.35	6.67	6.06	5.51	5.01
COP	5.62	5.34	5.04	5.9	4.47	4.2	3.95	3.7	3.48	3.26	3.06	2.87	2.7	2.54	2.39
LV. WTR	75.25	80.24	85.19	91.39	95.08	100.03	104.97	109.91	114.85	119.79	124.74	129.68	134.63	139.57	144.52
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
47 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	60,300	58,950	57,600	56,150	54,700	53,100	51,500	49,800	48,100	46,300	44,500	42,550	40,600	38,650	36,700
HMBTUH	71,597	70,947	70,296	69,648	69,000	68,305	67,609	66,916	66,223	65,549	64,876	64,188	63,501	62,814	62,127
WATTS	4,110	4,315	4,520	4,755	4,990	5,255	5,520	5,815	6,110	6,440	6,770	7,140	7,510	7,880	8,250
EER	14.67	13.66	12.74	11.81	10.96	10.1	9.33	8.56	7.87	7.19	6.57	5.96	5.41	4.9	4.45
COP	5.1	4.82	4.56	4.29	4.05	3.81	3.59	3.37	3.18	2.98	2.81	2.63	2.48	2.34	2.21
LV. WTR	74.78	79.73	84.69	89.65	94.6	99.56	104.51	109.46	114.42	119.37	124.33	129.28	134.24	139.19	144.14
WB TEMP.	ENTER WATER TEMP. F @ 30 GPM,														
42 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	53,800	52,550	51,300	50,000	48,700	47,250	45,800	44,250	42,700	41,050	39,400	37,700	36,000	34,300	32,600
HMBTUH	65,097	64,547	63,996	63,481	62,966	62,404	61,841	98,721	60,755	60,231	59,707	59,253	58,799	58,345	57,890
WATTS	4,110	4,315	4,520	4,750	4,980	5,240	5,500	16,760	6,090	6,420	6,750	7,115	7,480	7,845	8,210
EER	13.09	12.18	11.35	10.53	9.78	9.02	8.33	2.64	7.01	6.39	5.84	5.3	4.81	4.37	3.97
COP	4.64	4.38	4.15	3.92	3.7	3.49	3.29	1.73	2.92	2.75	2.59	2.44	2.3	2.18	2.07
LV. WTR	74.34	87.91	92.8	97.7	102.6	107.49	112.37	124.75	122.16	127.05	131.95	136.86	141.76	146.67	151.58