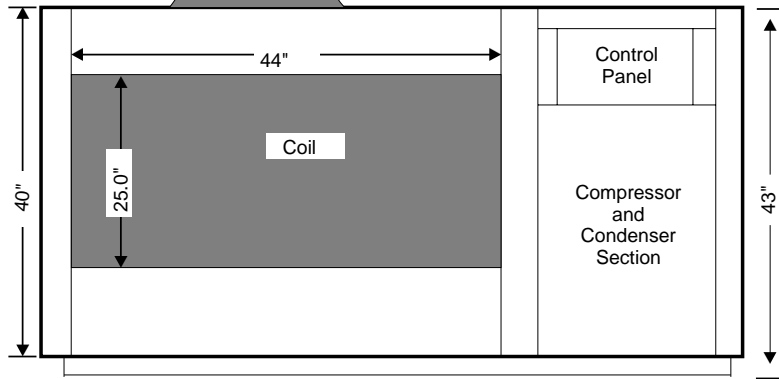
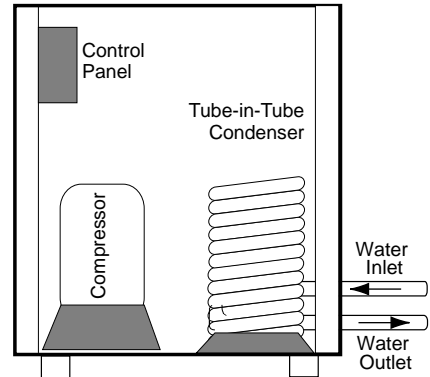


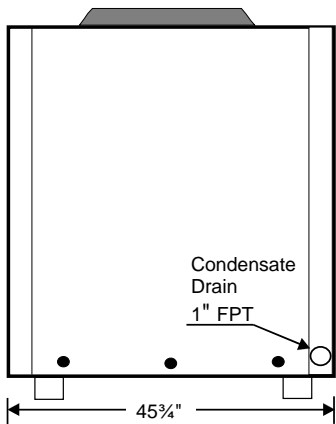
## MODEL HPAS 2 SS 179



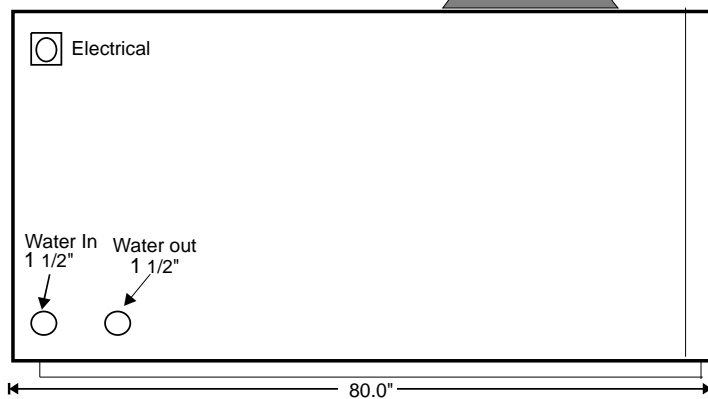
**Front View**



**Right Side**



**Left Side**



**Back View**

## MODEL HPAS 2 SS 179

Heating Capacity	178,600 BTUH
Condenser Water Flow	40 GPM
Pressure Drop (cond.)	5.2 PSI
Entering Water Temp.	100 °F
Leaving Water Temp.	108.29°F
COP	5.52
Compressors	(1) SM 110 Maneurop Scroll
Voltage	460/60/3Ø
RLA/LRA	13.8
Control Voltage	24 Volts
Minimum Circuit Amp.	20

Cooling Capacity	150,000 BTUH
Evaporator Construction	Copper/Aluminum Fin
Cabinet Construction	Galvanized Steel
Entering Wet Bulb Temp.	72.0°F
Water Pump—1/2 HP	460/3/60 – 1.3 Amp
Cooling EER	15.67
Condensers	Double Wall Vented
Construction (Cond.)	Tube-in-Tube
Fan ¾ HP	460/3/60 - 1.5 Amp
Refrigerant Type	R-22
Minimum Unit Amperage	30 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
Compressors 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 Galvanize Cabinet
304 or 316 Stainless Steel Cabinet
Refrigerant Pump Down Solenoid Valves
Blower
TechniCoat 10-1 Evaporator 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  
Environmentally Engineered Equipment, Inc.

MODEL HPAS 2 SS 179													
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
72 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	172,000	168,600	165,200	161,400	157,600	153,800	150,000	145,900	141,800	137,400	133,000	128,300	123,600
HMBTUH	192,888	190,614	188,340	185,803	183,266	180,916	178,567	176,105	173,643	171,138	168,632	166,031	163,430
WATTS	7,220	7,550	7,880	8,250	8,620	9,045	9,470	9,950	10,430	10,985	11,540	12,155	12,770
EER	23.82	22.33	20.96	19.56	18.28	17	15.84	14.66	13.6	12.51	11.53	10.56	9.68
COP	7.83	7.4	7	6.6	6.23	5.86	5.52	5.19	4.88	4.56	4.28	4	3.75
LV. WTR	79.65	84.53	89.42	94.29	99.17	104.05	108.93	113.81	118.69	123.56	128.43	133.3	138.17
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
67 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	158,500	155,300	152,100	148,650	145,200	141,550	137,900	134,050	130,200	126,100	122,000	117,650	113,300
HMBTUH	179,319	177,246	175,172	173,002	170,832	168,649	166,467	164,272	162,077	159,872	157,666	155,432	153,198
WATTS	7,200	7,530	7,860	8,235	8,610	9,040	9,470	9,955	10,440	10,995	11,550	12,170	12,790
EER	22.01	20.62	19.35	18.05	16.86	15.66	14.56	13.47	12.47	11.47	10.56	9.67	8.86
COP	7.3	6.9	6.53	6.16	5.81	5.47	5.15	4.83	4.55	4.26	4	3.74	3.51
LV. WTR	78.97	83.87	88.76	93.65	98.54	103.44	108.33	113.22	118.11	123	127.89	132.77	137.66
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
62 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	145,000	142,000	139,000	135,900	132,800	129,300	125,800	122,200	118,600	114,800	111,000	107,000	103,000
HMBTUH	165,751	163,877	162,004	160,201	158,398	156,382	154,367	152,439	150,512	148,606	146,700	144,833	142,966
WATTS	7,180	7,510	7,840	8,220	8,600	9,035	9,470	9,960	10,450	11,005	11,560	12,185	12,810
EER	20.19	18.91	17.73	16.53	15.44	14.31	13.28	12.27	11.35	10.43	9.6	8.78	8.04
COP	6.76	6.39	6.05	5.71	5.4	5.07	4.78	4.48	4.22	3.96	3.72	3.48	3.27
LV. WTR	78.29	83.2	88.1	93.01	97.92	102.82	107.72	112.63	117.53	122.43	127.34	132.24	137.15
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
57 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	132,200	129,450	126,700	123,750	120,800	117,650	114,500	111,150	107,800	104,300	100,800	97,100	93,400
HMBTUH	152,883	151,276	149,669	148,016	146,363	144,715	143,067	141,406	139,746	138,157	136,568	135,001	133,434
WATTS	7,160	7,495	7,830	8,210	8,590	9,030	9,470	9,965	10,460	11,020	11,580	12,205	12,830
EER	18.46	17.27	16.18	15.07	14.06	13.03	12.09	11.15	10.31	9.46	8.7	7.96	7.28
COP	6.26	5.91	5.6	5.28	4.99	4.7	4.43	4.16	3.91	3.67	3.46	3.24	3.05
LV. WTR	77.65	82.57	87.49	92.4	97.32	102.24	107.16	112.07	116.99	121.91	126.83	131.75	136.67
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
52 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	120,300	117,750	115,200	112,450	109,700	106,750	103,800	100,750	97,700	94,450	91,200	87,750	84,300
HMBTUH	140,915	139,508	138,101	136,665	135,229	133,781	132,333	130,989	129,646	128,324	127,002	125,703	124,403
WATTS	7,140	7,475	7,810	8,195	8,580	9,020	9,460	9,960	10,460	11,025	11,590	12,220	12,850
EER	16.85	15.75	14.75	13.72	12.79	11.83	10.97	10.12	9.34	8.57	7.87	7.18	6.56
COP	5.78	5.47	5.18	4.89	4.62	4.35	4.1	3.85	3.63	3.41	3.21	3.01	2.84
LV. WTR	77.05	81.98	86.91	91.84	96.76	101.69	106.62	111.55	116.48	121.42	126.35	131.29	136.22
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
47 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	109,100	106,750	104,400	101,850	99,300	96,600	93,900	91,050	88,200	85,200	82,200	79,050	75,900
HMBTUH	129,646	128,457	127,267	126,031	124,795	123,614	122,433	121,289	120,146	119,074	118,002	117,020	116,037
WATTS	7,120	7,460	7,800	8,185	8,570	9,015	9,460	9,960	10,460	11,025	11,590	12,225	12,860
EER	15.32	14.31	13.38	12.44	11.59	10.72	9.93	9.14	8.43	7.73	7.09	6.47	5.9
COP	5.34	5.05	4.78	4.51	4.27	4.02	3.79	3.57	3.37	3.16	2.98	2.8	2.64
LV. WTR	76.48	81.43	86.37	91.3	96.24	101.18	106.12	111.07	116.01	120.96	125.9	130.85	135.8
WB TE,P	ENTERING WATER TEMP. F @ 40 GPM												
42 DEG	70	75	80	85	90	95	100	105	110	115	120	125	130
CMBTUH	98,700	96,500	94,300	91,950	89,600	87,100	84,600	82,000	79,400	76,650	73,900	70,700	67,500
HMBTUH	119,178	118,480	117,781	116,421	115,061	114,080	113,099	112,222	111,346	110,541	109,737	108,704	107,671
WATTS	7,100	7,540	7,980	8,270	8,560	9,005	9,450	9,955	10,460	11,030	11,600	12,235	12,870
EER	13.9	12.8	11.82	11.12	10.47	9.67	8.95	8.24	7.59	6.95	6.37	5.78	5.24
COP	4.92	4.6	4.32	4.12	3.94	3.71	3.51	3.3	3.12	2.94	2.77	2.6	2.45
LV. WTR	75.96	80.93	85.89	90.82	95.76	100.71	105.66	110.61	115.57	120.53	125.49	130.44	135.39