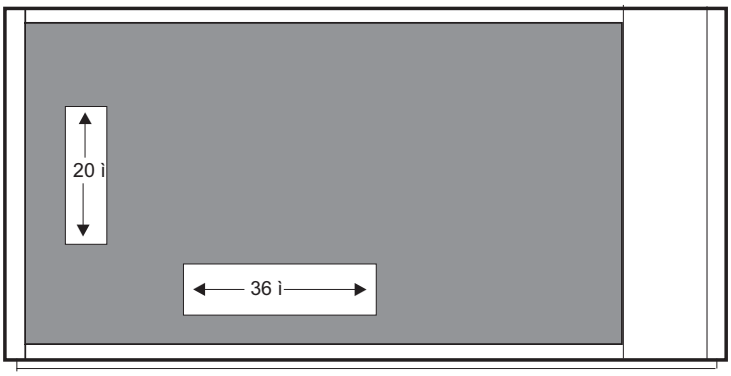
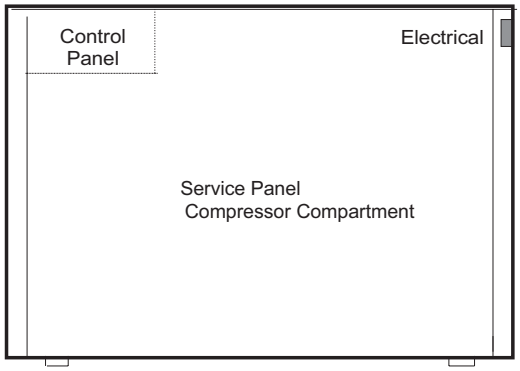
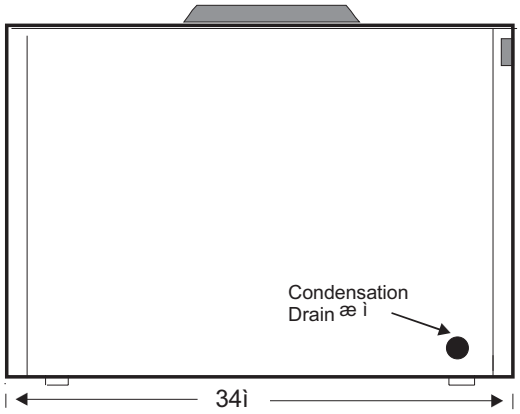


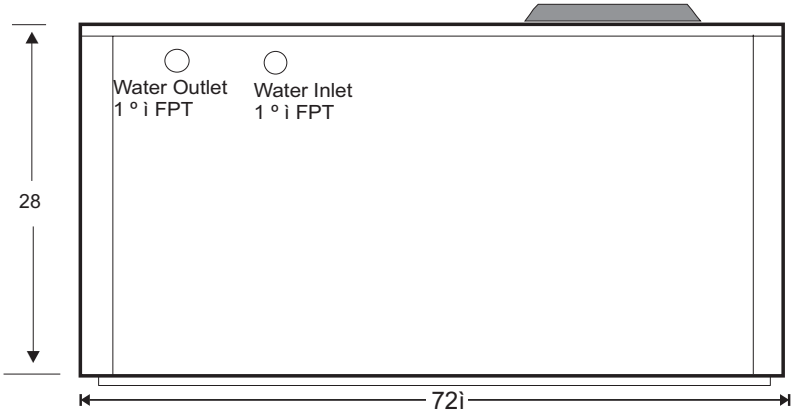
Front View



Right End View



Left End View



Back View

MODEL HPAS 5 SR 81

Heating Capacity	81,200 BTUH
Condenser Water Flow	25 GPM
Pressure Drop (cond.)	5.2 PSI
Entering Water Temp.	100.0 °F
Leaving Water Temp.	106.5 °F
COP	4.53
Compressors	MTE 64 Reciprocating
Voltage	208/230/60/3Ø
RLA/LRA	22.1/128
Control Voltage	24 Volts
Minimum Circuit Amp.	20 compressor

Cooling Capacity	66,045 BTUH
Evaporator Construction	Copper/Aluminum
Cabinet Construction	Galvanized
Entering Wet Bulb Temp.	72.0°F
Water Pump—1/6 HP	230/1.08
Cooling EER	12.58
Condensers	Double Wall Vented
Construction	Tube-in-Tube
Fan ¾ HP	230/60/1Ø -- 3.8 amps
Refrigerant Type	R–134A
Minimum Unit Amperage.	30 Amp.

STANDARD FEATURES

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

Options

- Painted Galvanize Cabinet
- Microprossor Based Controls
- 304 or 316 Stainless Steel Cabinet
- Blower
- Refrigerant Pump Down Solenoid Valves
- Technocrat 10-1 Evaporator Coated Coil
- 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 SR 81

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
72 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	80,859	78,390	75,921	73,452	70,983	68,514	66,045	63,391	60,737	58,082	55,428	52,774	50,120	47,465	44,811
HMBTUH	92,770	90,847	88,925	87,002	85,079	83,156	81,233	79,091	76,949	74,806	72,664	70,522	68,380	66,237	64,094
WATTS	4,290	4,450	4,610	4,770	4,930	5,090	5,250	5,400	5,550	5,700	5,850	6,000	6,150	6,300	6,450
EER	18.85	17.62	16.47	15.4	14.4	13.46	12.58	11.74	10.94	10.19	9.47	8.8	8.15	7.53	6.95
COP	6.34	5.98	5.65	5.34	5.06	4.79	4.53	4.29	4.06	3.85	3.64	3.44	3.26	3.08	2.91
LV. WTR	77.42	82.27	87.12	91.96	96.81	101.66	106.5	111.33	116.16	120.99	125.82	130.64	135.47	140.3	145.13

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
67 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	72,839	70,527	68,216	65,905	63,594	61,282	58,971	56,511	54,052	51,592	49,132	46,672	44,213	41,753	39,293
HMBTUH	84,631	82,814	80,998	79,182	77,365	75,548	73,732	71,719	69,711	67,698	65,685	63,672	61,664	59,651	57,638
WATTS	4,255	4,400	4,545	4,690	4,835	4,980	5,125	5,256	5,388	5,519	5,650	5,781	5,913	6,044	6,175
EER	17.12	16.03	15.01	14.05	13.15	12.31	11.51	10.75	10.03	9.35	8.7	8.07	7.48	6.91	6.36
COP	5.83	5.51	5.22	4.95	4.69	4.44	4.22	4	3.79	3.59	3.41	3.23	3.06	2.89	2.73
LV. WTR	76.77	81.63	86.48	91.34	96.19	101.05	105.9	110.74	115.58	120.42	125.26	130.1	134.94	139.77	144.61

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
62 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	64,818	62,665	60,511	58,358	56,204	54,051	51,897	49,632	47,367	45,101	42,836	40,571	38,306	36,040	33,775
HMBTUH	76,490	74,781	73,071	71,362	69,651	67,942	66,232	64,352	62,470	60,589	58,706	56,827	54,944	53,064	51,181
WATTS	4,220	4,350	4,480	4,610	4,740	4,870	5,000	5,113	5,225	5,338	5,450	5,563	5,675	5,788	5,900
EER	15.36	14.41	13.51	12.66	11.86	11.1	10.38	9.71	9.07	8.45	7.86	7.29	6.75	6.23	5.72
COP	5.31	5.04	4.78	4.54	4.31	4.09	3.88	3.69	3.5	3.33	3.16	2.99	2.84	2.69	2.54
LV. WTR	76.12	80.98	85.85	90.71	95.57	100.44	105.3	110.15	115	119.85	124.7	129.55	134.4	139.25	144.1

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
57 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	58,003	55,986	53,969	51,952	49,936	47,919	45,902	43,805	41,708	39,611	37,515	35,418	33,321	31,224	29,127
HMBTUH	69,385	67,771	66,153	64,539	62,922	61,308	59,691	57,928	56,162	54,400	52,635	50,872	49,106	47,344	45,578
WATTS	4,135	4,253	4,370	4,488	4,605	4,723	4,840	4,938	5,035	5,133	5,230	5,328	5,425	5,523	5,620
EER	14.03	13.16	12.35	11.58	10.84	10.15	9.48	8.87	8.28	7.72	7.17	6.65	6.14	5.65	5.18
COP	4.92	4.67	4.44	4.21	4	3.8	3.61	3.44	3.27	3.11	2.95	2.8	2.65	2.51	2.38
LV. WTR	75.55	80.42	85.29	90.17	95.04	99.91	104.78	109.64	114.49	119.35	124.21	129.07	133.93	138.79	143.65

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
52 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	51,187	49,307	47,427	45,547	43,667	41,787	39,907	37,979	36,050	34,122	32,193	30,265	28,336	26,408	24,479
HMBTUH	62,279	60,758	59,236	57,714	56,193	54,671	53,149	51,505	49,856	48,211	46,562	44,917	43,268	41,623	39,974
WATTS	4,050	4,155	4,260	4,365	4,470	4,575	4,680	4,763	4,845	4,928	5,010	5,093	5,175	5,258	5,340
EER	12.64	11.87	11.13	10.43	9.77	9.13	8.53	7.97	7.44	6.92	6.43	5.94	5.48	5.02	4.58
COP	4.51	4.28	4.07	3.87	3.68	3.5	3.33	3.17	3.01	2.87	2.72	2.58	2.45	2.32	2.19
LV. WTR	74.98	79.86	84.74	89.62	94.5	99.38	104.25	109.12	113.99	118.86	123.73	128.59	133.46	138.33	143.2

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
47 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	45,448	43,685	41,923	40,160	38,397	36,635	34,872	33,088	31,305	29,521	27,737	25,953	24,170	22,386	20,602
HMBTUH	56,148	54,709	53,271	51,832	50,394	48,956	47,517	45,969	44,421	42,869	41,321	39,772	38,225	36,673	35,124
WATTS	3,935	4,030	4,125	4,220	4,315	4,410	4,505	4,574	4,643	4,711	4,780	4,849	4,918	4,986	5,055
EER	11.55	10.84	10.16	9.52	8.9	8.31	7.74	7.23	6.74	6.27	5.8	5.35	4.91	4.49	4.08
COP	4.18	3.98	3.78	3.6	3.42	3.25	3.09	2.94	2.8	2.67	2.53	2.4	2.28	2.16	2.04
LV. WTR	74.49	79.38	84.26	89.15	94.03	98.92	103.8	108.68	113.56	118.43	123.31	128.18	133.06	137.93	142.81

WB TEMP.					ENTER WATER TEMP. F @ 25 GPM,										
42 DEG .	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CMBTUH	39,709	38,063	36,418	34,773	33,128	31,482	29,837	28,198	26,559	24,920	23,281	21,642	20,003	18,364	16,725
HMBTUH	50,016	48,660	47,305	45,951	44,596	43,240	41,885	40,434	38,982	37,531	36,080	34,628	33,177	31,726	30,275
WATTS	3,820	3,905	3,990	4,075	4,160	4,245	4,330	4,385	4,440	4,495	4,550	4,605	4,660	4,715	4,770
EER	10.4	9.75	9.13	8.53	7.96	7.42	6.89	6.43	5.98	5.54	5.12	4.7	4.29	3.89	3.51
COP	3.84	3.65	3.47	3.3	3.14	2.98	2.83	2.7	2.57	2.45	2.32	2.2	2.09	1.97	1.86
LV. WTR	74	78.89	83.79	88.68	93.57	98.46	103.35	108.24	113.12	118	122.89	127.77	132.66	137.54	142.42