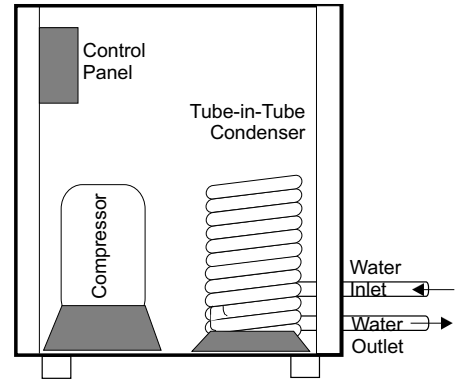
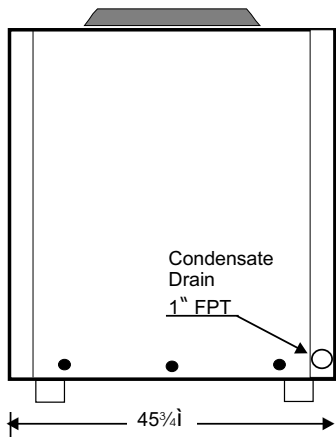


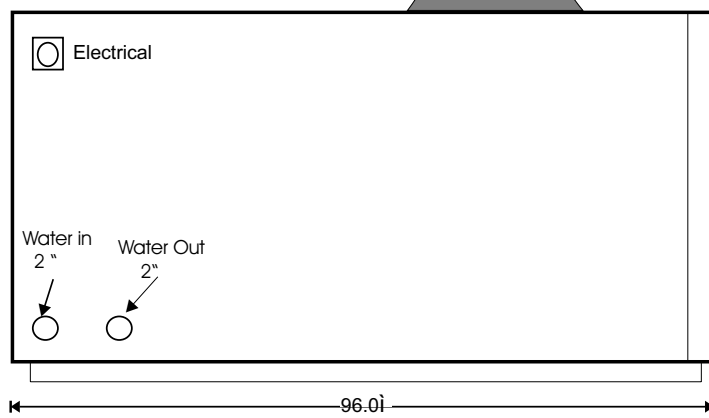
Front View



Right Side



Left Side



Back View

MODEL HPAS 2 SS 307

| | |
|-------------------------|----------------------------|
| Heating Capacity | 306,600 BTUH |
| Condenser Water Flow | 60 GPM |
| Pressure Drop (cond.) | 5.2 PSI |
| Entering Water Temp. | 100 °F |
| Leaving Water Temp. | 110.2 °F |
| COP | 5.59 |
| Compressors | (1) SM 185 Maneurop Scroll |
| Voltage | 460/60/3Ø |
| RLA/LRA | 30.2/175 |
| Control Voltage | 24 Volts |
| Min. Comp. Circuit Amp. | 30 |

| | |
|-------------------------|---------------------|
| Cooling Capacity | 256,000 BTUH |
| Evaporator Construction | Copper/Aluminum Fin |
| Cabinet Construction | Galvanize Steel |
| Entering Wet Bulb Temp. | 72.0°F |
| Water Pump—1.0/ HP | 460/3/60 - 1.7 Amp |
| Cooling EER | 15.58 |
| Condensers | Double Wall Vented |
| Construction (Cond.) | Tube-in-Tube |
| Fan 1 1/2 HP | 460/3/60 - 2.4 Amp |
| Refrigerant Type | R-22 |
| Minimum Unit Amperage. | 60 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
- 304 or 316 Stainless Steel
- TechniCoat 10-2 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
H H Systems, Inc.

| MODEL HPAS 2 SS 307 | | | | | | | | | | | | | |
|---------------------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 72 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 291,600 | 286,000 | 280,400 | 274,500 | 268,600 | 262,300 | 256,000 | 249,250 | 242,500 | 235,450 | 228,400 | 220,900 | 213,400 |
| HMBTUH | 328,938 | 325,267 | 321,595 | 317,879 | 314,164 | 310,372 | 306,581 | 302,629 | 298,678 | 294,785 | 290,892 | 286,924 | 282,957 |
| WATTS | 12,190 | 12,755 | 13,320 | 13,960 | 14,600 | 15,335 | 16,070 | 16,890 | 17,710 | 18,635 | 19,560 | 20,595 | 21,630 |
| EER | 23.92 | 22.42 | 21.05 | 19.66 | 18.4 | 17.1 | 15.93 | 14.76 | 13.69 | 12.63 | 11.68 | 10.73 | 9.87 |
| COP | 7.91 | 7.47 | 7.07 | 6.67 | 6.3 | 5.93 | 5.59 | 5.25 | 4.94 | 4.63 | 4.36 | 4.08 | 3.83 |
| LV. WTR | 80.97 | 85.85 | 90.72 | 95.6 | 100.48 | 105.35 | 110.22 | 115.09 | 119.96 | 124.83 | 129.7 | 134.57 | 139.44 |
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 67 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 269,000 | 263,800 | 258,600 | 253,050 | 247,500 | 241,600 | 235,700 | 229,400 | 223,100 | 216,500 | 209,900 | 202,900 | 195,900 |
| HMBTUH | 306,133 | 302,862 | 299,590 | 296,224 | 292,859 | 289,450 | 286,042 | 282,540 | 279,039 | 275,579 | 272,119 | 268,634 | 265,150 |
| WATTS | 12,130 | 12,695 | 13,260 | 13,900 | 14,540 | 15,270 | 16,000 | 16,820 | 17,640 | 18,560 | 19,480 | 20,510 | 21,540 |
| EER | 22.18 | 20.78 | 19.5 | 18.21 | 17.02 | 15.82 | 14.73 | 13.64 | 12.65 | 11.66 | 10.78 | 9.89 | 9.09 |
| COP | 7.39 | 6.99 | 6.62 | 6.24 | 5.9 | 5.55 | 5.24 | 4.92 | 4.63 | 4.35 | 4.09 | 3.84 | 3.61 |
| LV. WTR | 80.21 | 85.1 | 89.99 | 94.88 | 99.77 | 104.65 | 109.54 | 114.42 | 119.31 | 124.19 | 129.07 | 133.96 | 138.84 |
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 62 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 246,400 | 241,600 | 236,800 | 231,600 | 226,400 | 220,900 | 215,400 | 209,550 | 203,700 | 197,550 | 191,400 | 184,900 | 178,400 |
| HMBTUH | 283,329 | 280,457 | 277,585 | 274,570 | 271,554 | 268,528 | 265,503 | 262,452 | 259,400 | 256,373 | 253,346 | 250,344 | 247,343 |
| WATTS | 12,070 | 12,635 | 13,200 | 13,840 | 14,480 | 15,205 | 15,930 | 16,750 | 17,570 | 18,485 | 19,400 | 20,425 | 21,450 |
| EER | 20.41 | 19.12 | 17.94 | 16.73 | 15.64 | 14.53 | 13.52 | 12.51 | 11.59 | 10.69 | 9.87 | 9.05 | 8.32 |
| COP | 6.88 | 6.5 | 6.16 | 5.81 | 5.49 | 5.17 | 4.88 | 4.59 | 4.33 | 4.06 | 3.83 | 3.59 | 3.38 |
| LV. WTR | 79.45 | 84.35 | 89.26 | 94.16 | 99.06 | 103.95 | 108.85 | 113.75 | 118.65 | 123.55 | 128.45 | 133.35 | 138.25 |
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 57 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 225,200 | 220,700 | 216,200 | 211,400 | 206,600 | 201,450 | 196,300 | 190,850 | 185,400 | 179,700 | 174,000 | 167,950 | 161,900 |
| HMBTUH | 261,924 | 259,335 | 256,746 | 254,131 | 251,515 | 248,822 | 246,130 | 243,478 | 240,827 | 238,233 | 235,639 | 233,087 | 230,535 |
| WATTS | 12,010 | 12,570 | 13,130 | 13,770 | 14,410 | 15,130 | 15,850 | 16,670 | 17,490 | 18,400 | 19,310 | 20,335 | 21,360 |
| EER | 18.75 | 17.56 | 16.47 | 15.35 | 14.34 | 13.31 | 12.38 | 11.45 | 10.6 | 9.77 | 9.01 | 8.26 | 7.58 |
| COP | 6.39 | 6.04 | 5.73 | 5.41 | 5.11 | 4.82 | 4.55 | 4.28 | 4.03 | 3.79 | 3.58 | 3.36 | 3.16 |
| LV. WTR | 78.73 | 83.65 | 88.56 | 93.47 | 98.39 | 103.3 | 108.21 | 113.12 | 118.03 | 122.94 | 127.86 | 132.77 | 137.69 |
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 52 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 205,200 | 201,050 | 196,900 | 192,400 | 187,900 | 183,150 | 178,400 | 173,350 | 168,300 | 162,950 | 157,600 | 152,050 | 146,500 |
| HMBTUH | 241,685 | 239,446 | 237,208 | 234,875 | 232,542 | 230,249 | 227,957 | 229,101 | 230,246 | 224,589 | 218,932 | 216,863 | 214,794 |
| WATTS | 11,940 | 12,500 | 13,060 | 13,695 | 14,330 | 15,050 | 15,770 | 17,585 | 19,400 | 19,310 | 19,220 | 20,240 | 21,260 |
| EER | 17.19 | 16.08 | 15.08 | 14.05 | 13.11 | 12.17 | 11.31 | 9.86 | 8.68 | 8.44 | 8.2 | 7.51 | 6.89 |
| COP | 5.93 | 5.61 | 5.32 | 5.03 | 4.75 | 4.48 | 4.24 | 3.82 | 3.48 | 3.41 | 3.34 | 3.14 | 2.96 |
| LV. WTR | 78.06 | 82.98 | 87.91 | 92.83 | 97.75 | 102.68 | 107.6 | 112.64 | 117.68 | 122.49 | 127.3 | 132.23 | 137.16 |
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 47 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 186,600 | 182,700 | 178,800 | 174,650 | 170,500 | 166,050 | 161,600 | 156,900 | 152,200 | 147,300 | 142,400 | 137,250 | 132,100 |
| HMBTUH | 222,812 | 220,823 | 218,834 | 216,852 | 214,869 | 212,859 | 210,850 | 208,931 | 207,013 | 205,219 | 203,424 | 201,739 | 200,053 |
| WATTS | 11,860 | 12,420 | 12,980 | 13,615 | 14,250 | 14,965 | 15,680 | 16,495 | 17,310 | 18,220 | 19,130 | 20,145 | 21,160 |
| EER | 15.73 | 14.71 | 13.78 | 12.83 | 11.96 | 11.1 | 10.31 | 9.51 | 8.79 | 8.08 | 7.44 | 6.81 | 6.24 |
| COP | 5.5 | 5.21 | 4.94 | 4.67 | 4.42 | 4.17 | 3.94 | 3.71 | 3.5 | 3.3 | 3.12 | 2.93 | 2.77 |
| LV. WTR | 77.43 | 82.36 | 87.3 | 92.23 | 97.17 | 102.1 | 107.03 | 111.97 | 116.9 | 121.84 | 126.78 | 131.73 | 136.67 |
| WB TE,P | ENTERING WATER TEMP. F @ 60 GPM | | | | | | | | | | | | |
| 42 DEG | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
| CMBTUH | 169,200 | 165,550 | 161,900 | 158,000 | 154,100 | 150,000 | 145,900 | 141,550 | 137,200 | 132,650 | 128,100 | 123,500 | 118,900 |
| HMBTUH | 205,139 | 203,383 | 201,627 | 199,895 | 198,162 | 196,502 | 194,842 | 193,257 | 191,671 | 190,210 | 188,749 | 190,716 | 192,682 |
| WATTS | 11,780 | 12,335 | 12,890 | 13,525 | 14,160 | 14,875 | 15,590 | 16,400 | 17,210 | 18,115 | 19,020 | 20,065 | 21,110 |
| EER | 14.36 | 13.42 | 12.56 | 11.68 | 10.88 | 10.08 | 9.36 | 8.63 | 7.97 | 7.32 | 6.74 | 6.3 | 5.92 |
| COP | 5.1 | 4.83 | 4.58 | 4.33 | 4.1 | 3.87 | 3.66 | 3.45 | 3.26 | 3.08 | 2.91 | 2.78 | 2.67 |
| LV. WTR | 76.84 | 81.78 | 86.72 | 91.67 | 96.61 | 101.55 | 106.5 | 111.44 | 116.39 | 121.34 | 126.29 | 131.36 | 136.43 |