

General Information

The WW Heat Pump Water Heater recovers waste or unwanted heat from a *source* such as building chiller loops, warm water from water cooled condensers, geothermal loops and a variety of other *sources*. The hot water generated by the WW Heat Pump, supplies a storage tank and can be used as potable or process hot water. The WW-720 Heat Pump is right for many large size commercial applications. When options such as built-in pumps are included, the installation becomes fast and easy; just connect the water and electrical power and the system is on line.

General Specifications

- Water Heating Capacity *: 725,000 BTUH
- Cooling Capacity *: 580,000 BTUH
- COP *: 3.8
- Source Water Flow Rate: 120 GPM
- Hot Water Flow Rate 144 GPM

Standard Features

- High Efficiency Screw Compressor
- Environmentally Friendly Refrigerant: R-134a
- Stainless Steel Brazed Plate Double Wall Condenser
- Stainless Steel Brazed Plate Single Wall Evaporator
- Liquid Line Filter Dryer
- Liquid Line Sight Glass
- Thermal Expansion Valve
- Evaporator Freeze Protection
- High and Low Refrigerant Pressure Switches
- Flow Switches
- Control Function Indicator Lamps
- Open Skid Epoxy Coated Turbular Steel Frame

Options

- Stainless Steel Mill Finished or Pre-Painted Aluminum Cabinet
- Sound Abatement Package
- Stainless Steel Brazed Plate Single Wall Condenser
- Reverse Acting Source Water Control Valve for operating with excessive source water temperature
- Compressor Run Hour Meter
- Shell and Tube, or Tube-In-Tube Heat Exchangers Available on Special Order. Consult Factory.
- Built-In Pumps(s)

* EWT 100°F (Entering Supply Water Temperature) and ESWT 70°F (Entering Source Water Temperature)

Electrical Characteristics

Model	Compressor					MCA	MFS
	Volts	Hz	Ph	RLA	LRA		
WW-720 HTC	208/230	60	3	224	939	201	350
WW-720 HTD	460	60	3	112	449	100	175

MCA= Minimum Circuit Ampacity MFS=Maximum Fuse

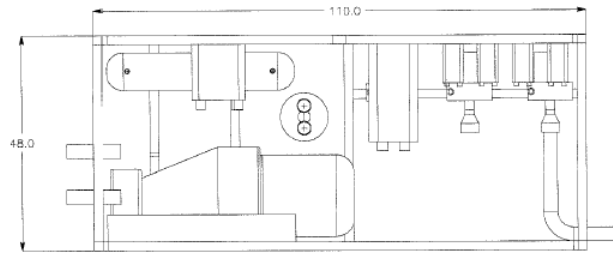
(Performance and Dimensional Data pg 2 & 3)

Capacity & COP

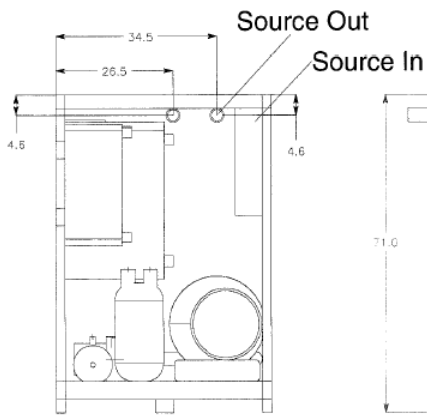
Source Water Temp (°F)	Hot Water Entering Temp (°F)	Heating Capacity (BTUH)	Cooling Capacity (BTUH)	COP (Heating)	Condensing Temp (°F)	Evaporator Temp (°F)
85	100	794700	628400	4.8	119	54
	110	778500	594400	4.2	129	55
	120	750900	547500	3.7	138	55
	130	713700	489100	3.2	147	55
80	100	753900	591300	4.6	118	51
	110	742300	561700	4.1	128	52
	120	730500	529200	3.6	138	54
	130	718800	493600	3.2	147	55
75	100	714200	555000	4.5	117	48
	110	703200	526400	4	127	49
	120	692200	494900	3.5	137	51
	130	681200	460300	3.1	147	52
70	100	675500	519700	4.3	116	44
	110	665200	492000	3.8	126	46
	120	654900	461600	3.4	136	47
	130	644700	428000	3	146	49
65	100	637900	485400	4.2	115	41
	110	628300	458700	3.7	125	42
	120	618700	429200	3.3	135	44
	130	609300	396700	2.9	145	45
60	100					
	110					
	120					
	130					
55	100					
	110					
	120					
	130					
50	100					
	110					
	120					
	130					

Nominal Flow Rates: Tower Water = 150 GPM
 Evaporator Water = 125 GPM (controlled to limit evaporator temperature)
 Condenser Water = 175 GPM (controlled to limit minimum condenser temperature)

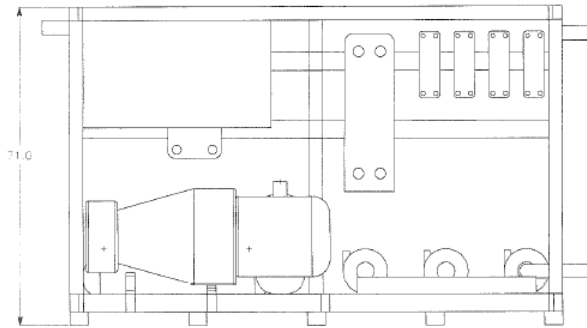
WW720



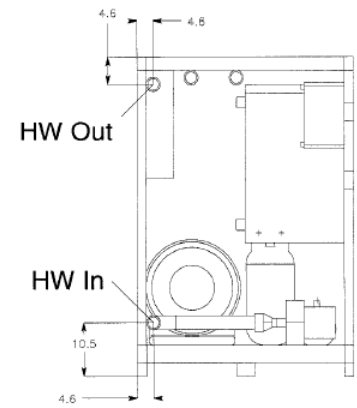
Top



Left Side



Front



Right Side

As part of the Applied Energy Systems, Inc. continuous improvement program, specifications subject to change without notice.