

General Information

E•Tech water heaters are designed to heat potable water at a savings compared to conventional gas and electric water heaters. The E•Tech water heater extracts heat from the ambient air, upgrades the heat with a compressor and refrigerant system, and transfers the heat into water. Approximately three times as much energy is transferred into the water than is used to operate the heat pump.



General Specifications

- Water Heating Capacity*: 215,500 BTUH
- Air Cooling Capacity*: 159,000 BTUH
- Air Volume: 4750 CFM
- COP*: 3.4
- Final Tank Temperature: 140°F
- Design Water Flow Rate: 39 GPM

Standard Features

- Scroll Compressor
- Blygold Evaporated Coated Air Coils for Corrosion Resistance
- Propeller (Axial) Fans (2)
- Cabinet: Mill Finish Aluminum
- Double Wall Condenser for Potable Water
- High and Low Pressure Switches with Lockout Circuit
- Indicators -High and Low Pressure
- Refrigerant: R-134a

Options

- Single Wall Condenser
- Cupronickel Condenser
- White Painted Aluminum Cabinet
- Phenolic Coated Evaporator Coil
- Internal Water Pump Installed (Built-In)
- Remote Air Cooled Condenser Ready
- Power Indicators - Power On and Water Heating

Optional Accessories

- Deluxe Remote Annunciator Panel with Hour Meter, Separate Hi/Lo Pressure Lockout Lights, Power On Light, Water Heating
- Remote Air Cooled Condenser
- Aquastat: 24V, Capillary BulbType Mounts on Tank
- Electrical Thermostat: ETC 1 Stage
- Aluminum Mesh Filter

*Rated at EWT (Entering Water Temperature) 100°F and EAT (Entering Air Temperature) 72°F WB

Electrical Characteristics

Model	Power Supply			Compressor (each)		Fan (each)		Pump		MCA	MFS
	Volts	Hz	Ph	RLA	LRA	HP	FLA	HP	FLA		
WH-220 HTC-F	208/230	60	3	41.1	278	0.75	6.90	-	-	88	110
WH-220 HTC-FP	208/230	60	3	41.1	278	0.75	6.90	1	2.8	91	110
WH-220 HTD-F	460	60	3	22.1	127	0.75	3.45	-	-	44	60
WH-220 HTD-FP	460	60	3	22.1	127	0.75	3.45	1	1.4	46	60

MCA= Minimum Circuit Ampacity MFS=Maximum Fuse

(Performance Curves and Dimensional Data pg 2 & 3)

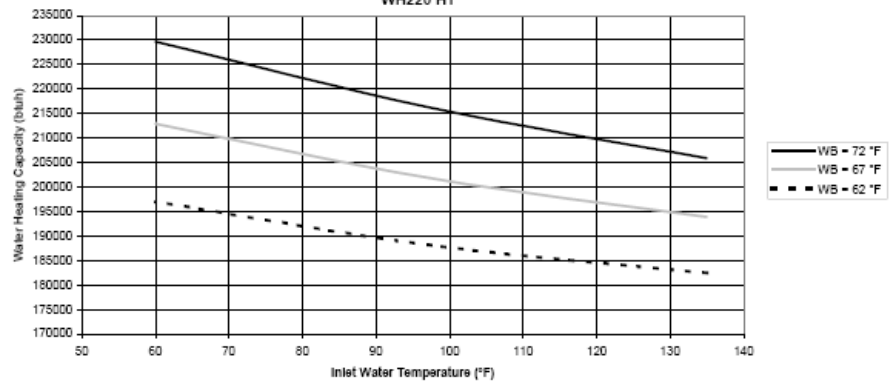
Performance Curves

WH-220 HT Average Values

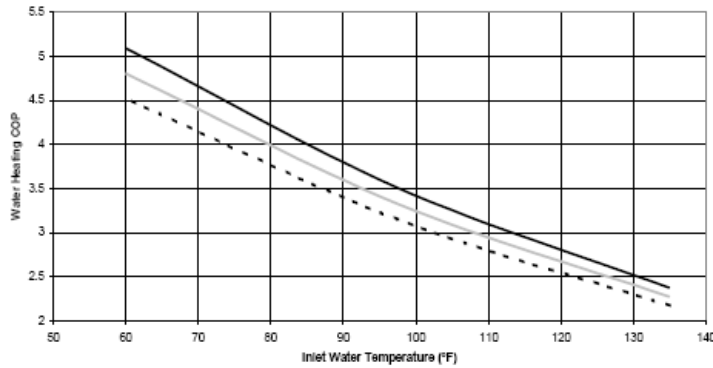
Initial Tank Temperature = 60°F
Final Tank Temperature = 135 °F

WB	Water Heating Capacity (btuh)	Recovery Rate (gal/hr)	COP	Cooling Capacity (btuh)
72	219000	406	3.72	160100
67	204000	378	3.52	146100
62	190000	352	3.34	133000

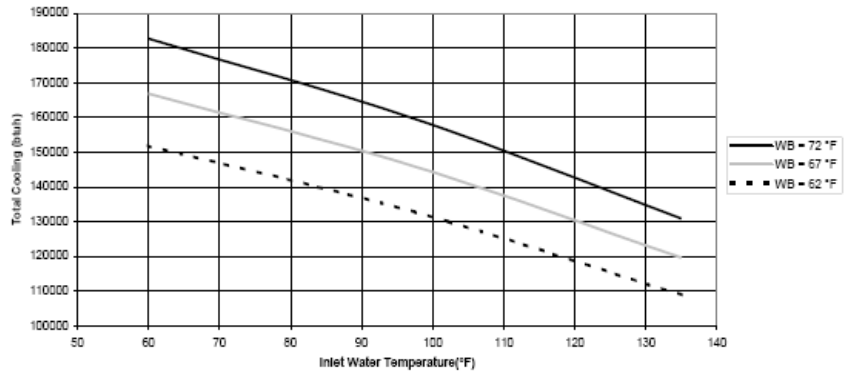
Water Heating Capacity vs. Inlet Water Temperature
WH220 HT



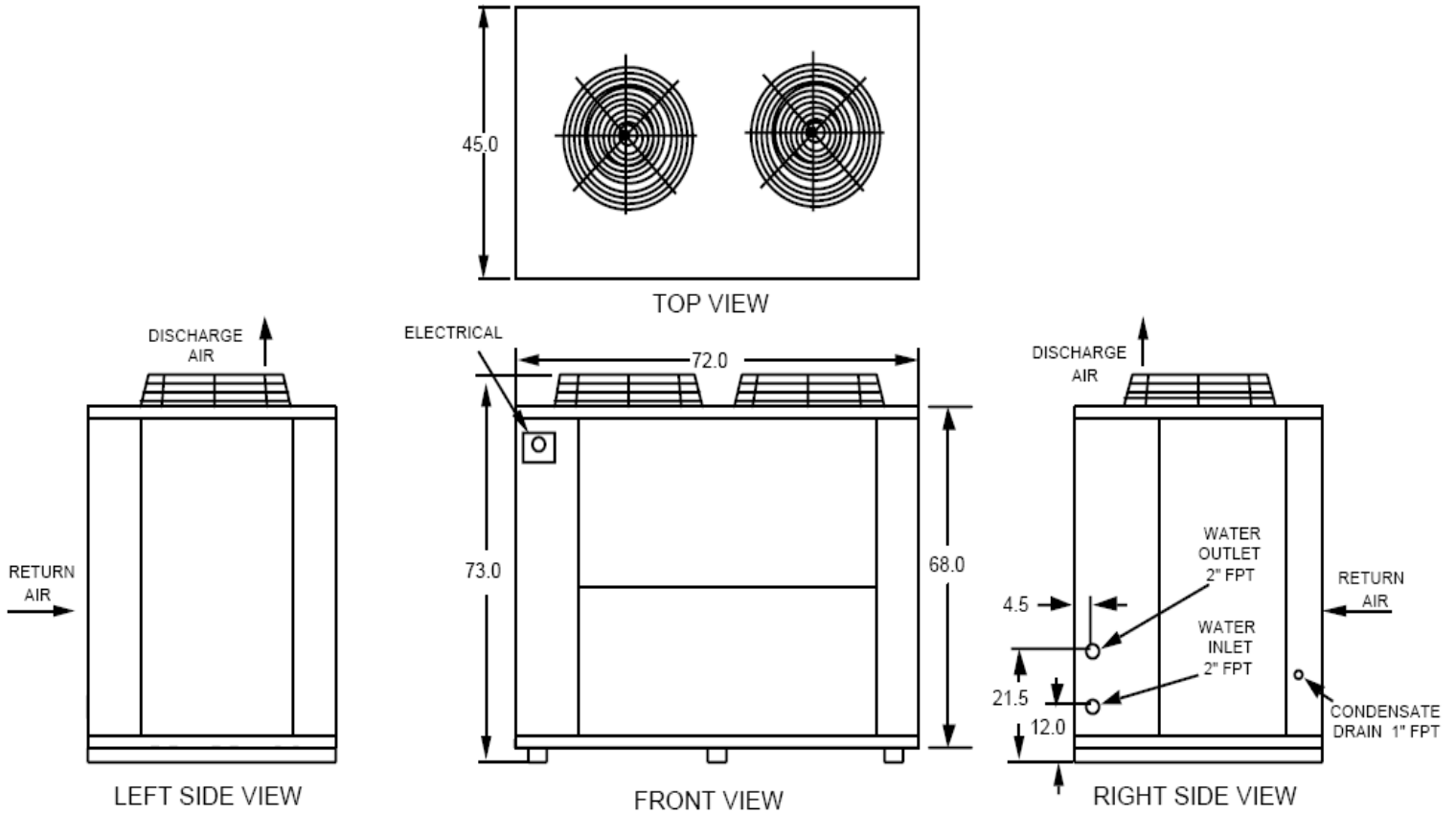
Water Heating COP vs. Inlet Water Temperature
WH220 HT



Cooling vs. Inlet Water Temperature
WH220 HT



WH-220 Dimensional Data



Note: Condensate Trap Required

Ship Weight: 1500 Lbs.

Cube: 120 Ft³