

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*: 159,000 BTUH
- Air Cooling Capacity*: 116,000 BTUH
- Air Volume: 3850 CFM
- COP*: 3.4
- Final Tank Temperature: 140°F
- Design Water Flow Rate: 32 GPM

Standard Features

- Scroll Compressor
- Blygold Evaporated Coated Air Coils for Corrosion Resistance
- Propeller (Axial) Fan
- 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		Fan		Pump		MCA	MFS
	Volts	Hz	Ph	RLA	LRA	HP	FLA	HP	FLA		
WH-160 HTC-F	208/230	60	3	55.0	425	0.75	6.90	-	-	69	110
WH-160 HTC-FP	208/230	60	3	55.0	425	0.75	6.90	0.75	2.90	72	110
WH-160 HTD-F	460	60	3	32.1	187	0.75	3.45	-	-	40	60
WH-160 HTD-FP	460	60	3	32.1	187	0.75	3.45	0.75	1.45	41	60

MCA= Minimum Circuit Ampacity MFS=Maximum Fuse

(Performance Curves and Dimensional Data pg 2 & 3)

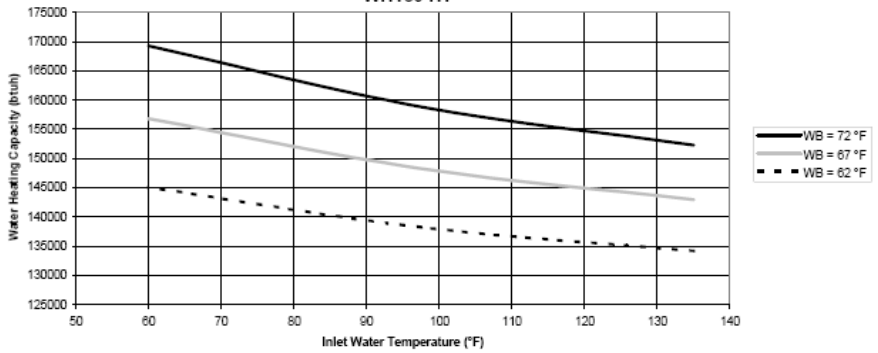
Performance Curves

WH-160 HT Average Values

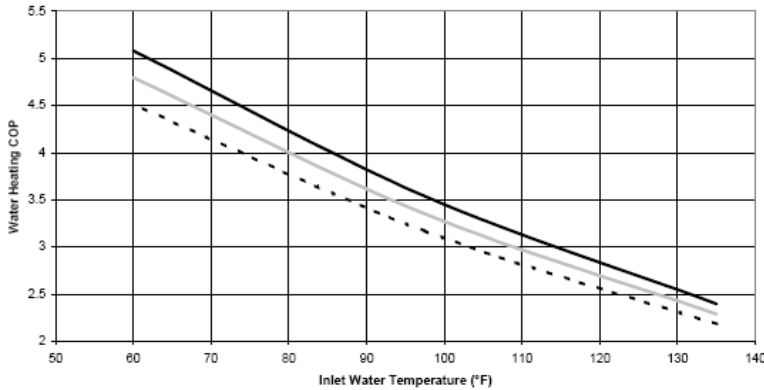
Initial Tank Temperature = 60°F
Final Tank Temperature = 135 °F

WB	Water Heating Capacity (btuh)	Recovery Rate (gal/hr)	COP	Cooling Capacity (btuh)
72	16100	259	3.73	117900
67	150200	241	3.53	107700
62	139800	225	3.34	98000

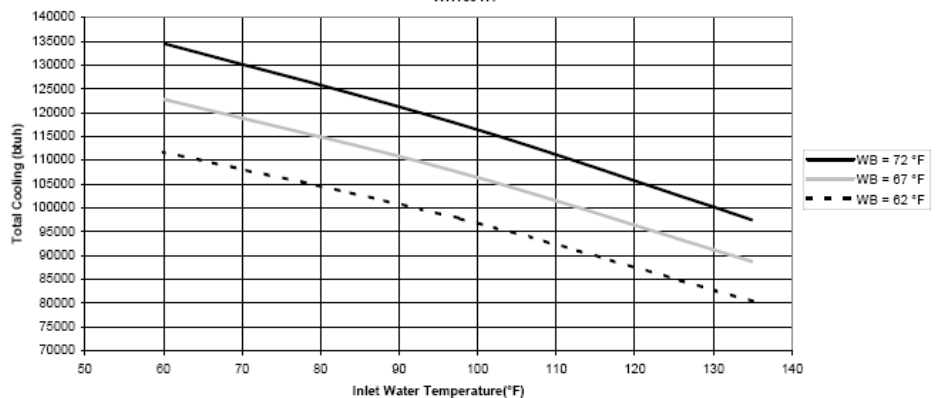
Water Heating Capacity vs. Inlet Water Temperature
WH160 HT



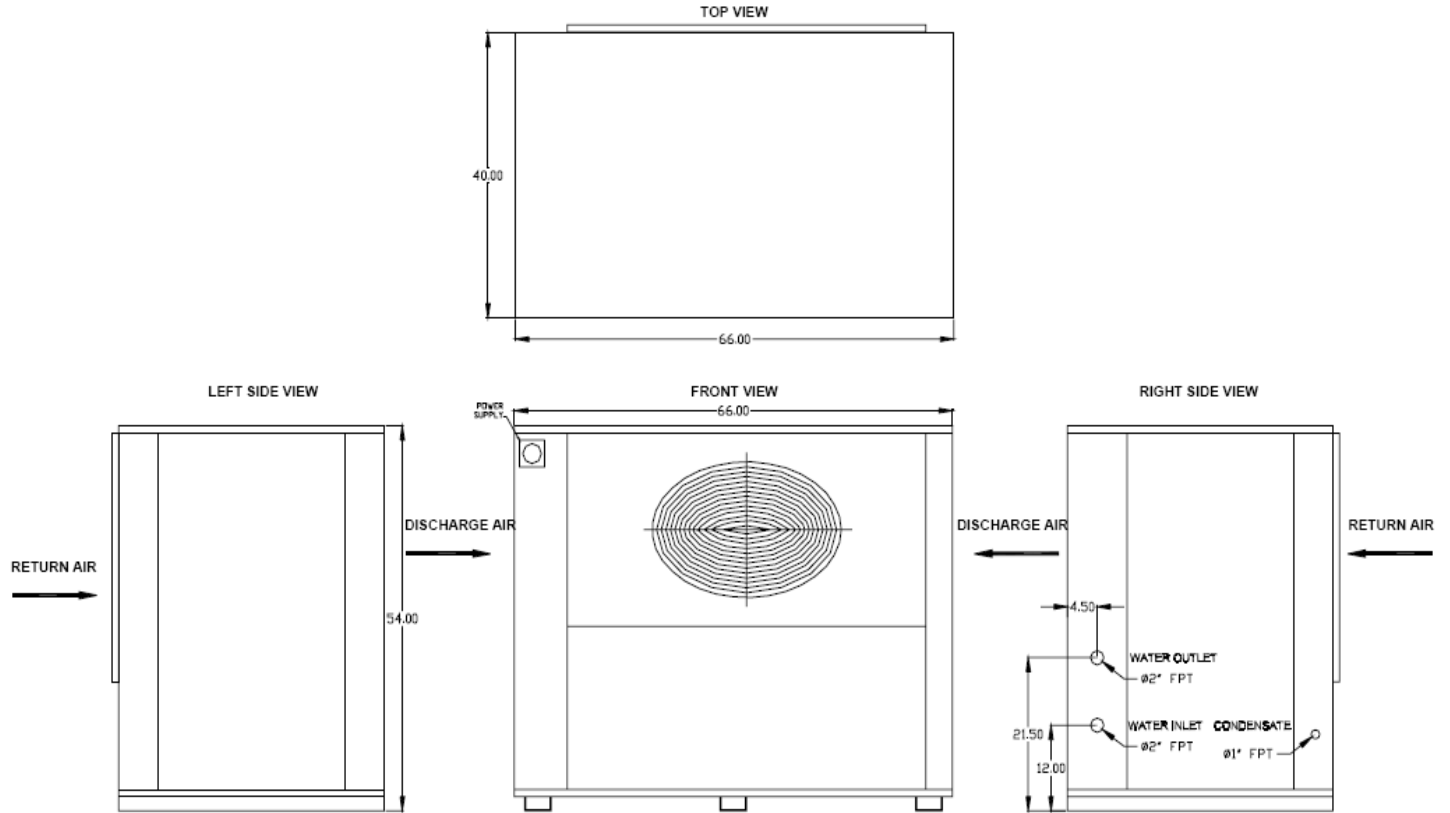
Water Heating COP vs. Inlet Water Temperature
WH160 HT



Cooling vs. Inlet Water Temperature
WH160 HT



WH-160 Dimensional Data



Note: Condensate Trap Required

Ship Weight: 1250 Lbs.
Cube: 108 Ft³