

## 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\*: 94,000 BTUH
- Air Cooling Capacity\*: 68,000 BTUH
- Air Volume: 2100 CFM @ 0.4 in. W.G. ESP
- COP\*: 3.4
- Final Tank Temperature: 140°F
- Design Water Flow Rate: 19 GPM

## Standard Features

- Scroll Compressor
- Condenser: Single Wall
- Blygold Evaporated Coated Air Coils for Corrosion Resistance
- Centrifugal Blower
- 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
- 304 or 316 Stainless Steel Cabinet
- Phenolic Coated Evaporator Coil
- Internal Water Pump Installed (Built-In)
- Remote Air Cooled Condenser Ready
- Free-Blow Kit (use when no duct work will be attached)
- 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 Bulb Type, 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		Blower		Pump		MCA	MFS
	Volts	Hz	Ph	RLA	LRA	HP	FLA	HP	FLA		
WH-90 HTC	208/230	60	3	38.2	232	1	3.6	-	-	41	70
WH-90HTC-P	208/230	60	3	38.2	232	1	3.6	0.3	1.07	42	70
WH-90 HTD	460	60	3	18.6	125	1	1.8	-	-	21	35
WH-90 HTD-P	460	60	3	18.6	125	1	1.8	0.3	0.54	22	35

MCA= Minimum Circuit Ampacity MFS=Maximum Fuse

(Performance Curves and Dimensional Data pg 2 & 3)

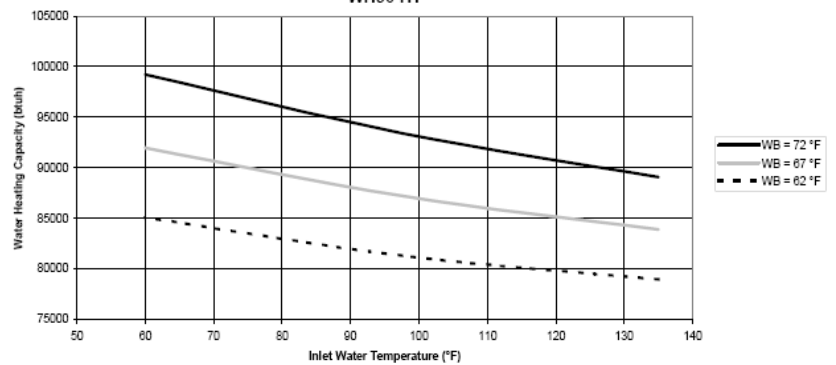
## Performance Curves

### WH-90 HT Average Values

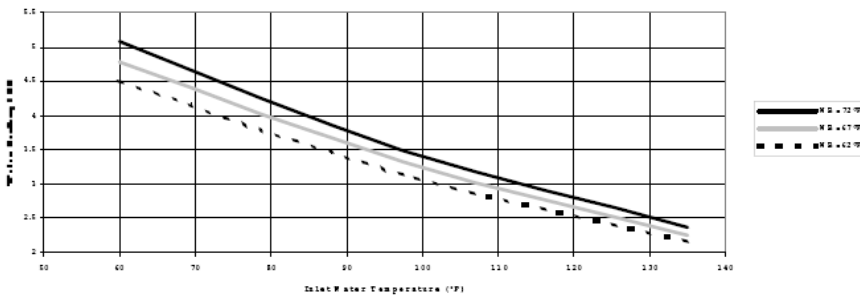
Initial Tank Temperature = 60°F  
Final Tank Temperature = 135 °F

WB	Water Heating Capacity (btuh)	Recovery Rate (gal/hr)	COP	Cooling Capacity (btuh)
72	94500	152	3.70	69000
67	88200	142	3.51	63100
62	82200	132	3.32	57500

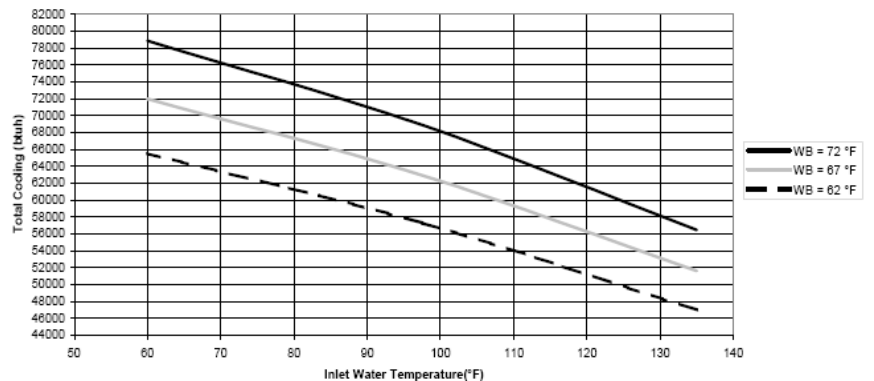
Water Heating Capacity vs. Inlet Water Temperature  
WH90 HT



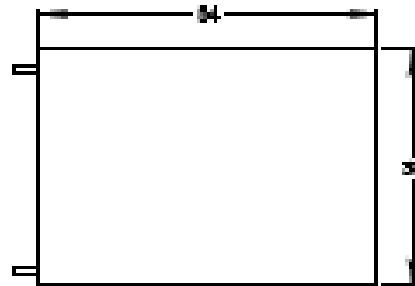
Water Heating COP vs. Inlet Water Temperature  
WH90 HT



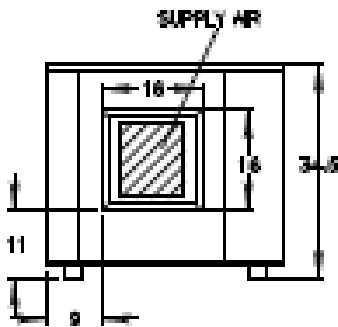
Cooling vs. Inlet Water Temperature  
WH90 HT



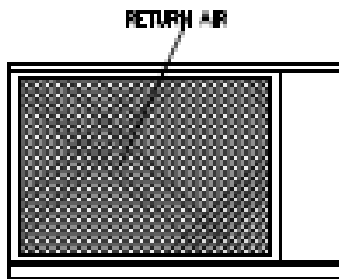
## WH-90 Dimensional Data



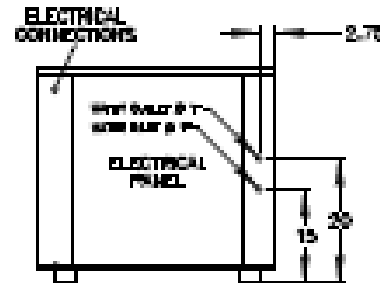
TOP VIEW



LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW

**Ship Weight:** 750 Lbs.

**Cube:** 59 Ft<sup>3</sup>