

### 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



### General Specifications

- Water Heating Capacity\*: 49,000 BTUH
- Air Cooling Capacity\*: 35,900 BTUH
- Air Volume: 1400 CFM @ 0.4 in. W.G. ESP
- COP\*: 3.3
- Final Tank Temperature: 140°F
- Design Water Flow Rate: 9 GPM

### Standard Features

- Scroll Compressor
- Blygold Evaporated Coated Air Coils for Corrosion Resistance
- Centrifugal Blower
- Cabinet: Mill Finish Aluminum
- Double Wall Condenser for Potable Water
- Internal Water Pump Installed (Built-In)
- 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
- 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-50HT-A	230	60	1	26.4	144	0.5	5.4	0.03	1.07	37	60
WH-50HT-C	208/230	60	3	20.7	128	0.5	5.4	0.03	1.07	30	45
WH-50HT-D	460	60	3	10.0	63	0.5	2.7	0.03	0.54	18	25

(Performance Curves and Dimensional Data on pg 2 & 3)

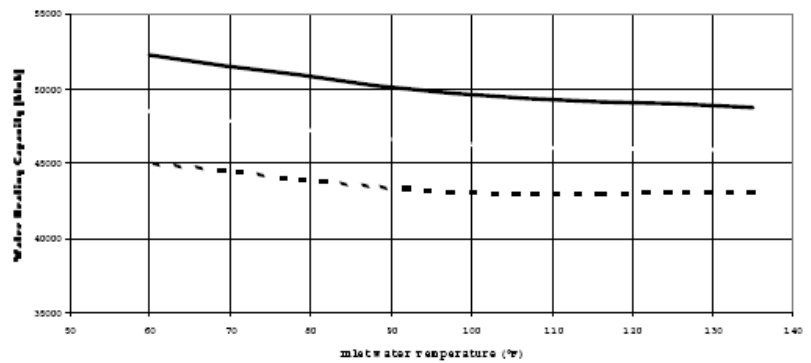
### Performance Curves

#### WH-50 HT Average Values

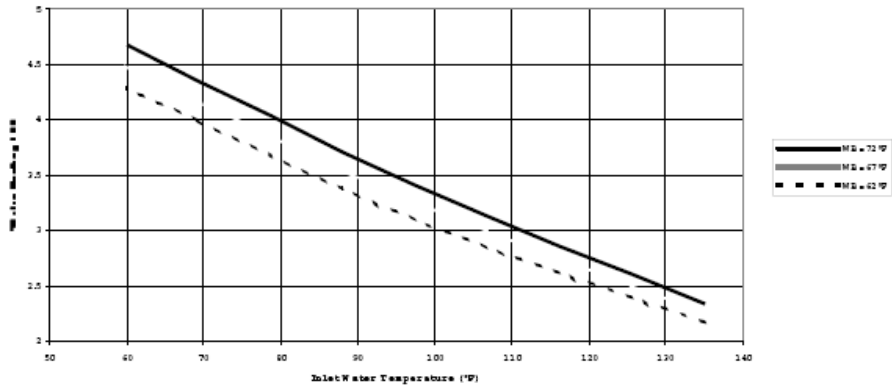
Initial Tank Temperature = 60°F  
Final Tank Temperature = 135 °F

WB	Water Heating Capacity (btuh)	Recovery Rate (gal/hr)	COP	Cooling Capacity (btuh)
72	50400	81	3.52	36100
67	47000	76	3.38	33100
62	43800	70	3.24	30300

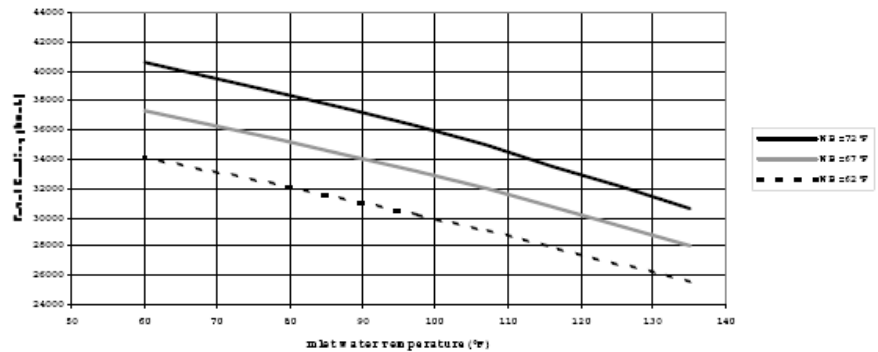
Water Heating Capacity vs. Inlet Water Temperature  
WH50 HT



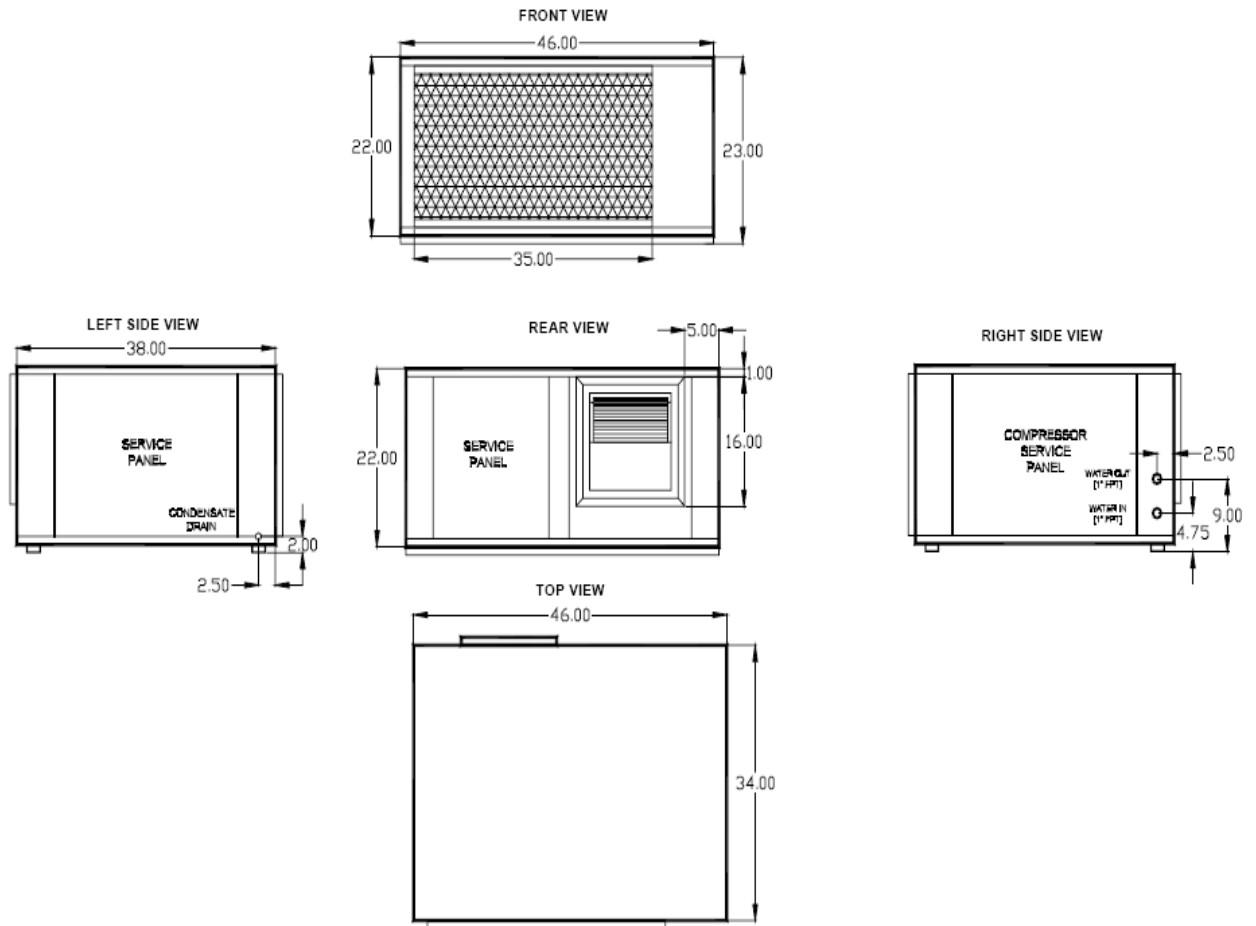
Water Heating COP vs. Inlet Water Temperature  
WH50 HT



Cooling vs. Inlet Water Temperature  
WH50 HT



### WH-50 Dimensional Data



Note: Condensate Trap Required

**Ship Weight:** 455 Lbs.

**Cube:** 36.4 Ft<sup>3</sup>