

DEMAND RESPONSE TOP CONNECT

Residential Electric Water Heaters

American Standard[®]

WATER HEATERS

www.americanstandardwaterheaters.com

Features

- **ELECTRONIC TEMPERATURE CONTROL** for precise temperature control and improved performance combined with an energy cut-off to prevent overheating.
- **I-MEMORY** self-learning habit algorithm which will ensure you have hot water when you need it and save energy when you don't.
- **ECOPOINT CERTIFIED** Demand Response ready.
- **USER-FRIENDLY LCD DISPLAY** screen that allows for easy view of current operational status, parameter changing, and diagnostics.
- **DAILY SCHEDULING** set up daily scheduling to ensure that hot water is available when needed most.
- **DRYFIRE PROTECTION** protects the water heater from damaging the elements if the tank is not properly filled.
- **DUAL HEATING ELEMENTS** – Screw in, INCOLOY, low wattage density to ensure more efficient operation and longer element life.
- **TURBULENCE-INDUCING DIP TUBE** engineered to reduce sediment built up inside the tank.
- **FULL FLOW BRASS DRAIN VALVE** allows easy and quick drainage.
- **FACTORY INSTALLED HEAT TRAPS** reduce standby heat loss caused by heat mitigation to water pipes.
- **TEMPERATURE AND PRESSURE RELIEF VALVE** factory provided & can be relocated from side to optional top of the heater.

Performance

- **UP TO 0.93 UEF**
- **UP TO 67 GALLONS FIRST HOUR RATING (FHR)**
- **HFO FOAM INSULATED** – 2 inch-thick, environmentally-friendly insulation foam saves energy, reduces fuel cost by maximizing heat retention, and contributes to overall energy efficiency.
- **MEETS OR EXCEEDS EFFICIENCY REQUIREMENTS OF THE DEPARTMENT OF ENERGY** – All models comply with and meet or exceed ASHRAE Standard 90.1 b.

Quality

- **HEAVY GAUGE STEEL TANK** for extra years of trouble-free service.
- **GLASS-LINED TANK** with DuraGlas™ and fired at 1600°F for optimum protection from the effects of corrosion.
- **DUAL MAGNESIUM ANODE RODS** to prolong tank life.
- **12-YEAR LIMITED TANK WARRANTY** – Standard 12-year warranty for tank and 6-year warranty for component parts.

40 & 50 Gallon Capacities
208 or 240 V Single Phase



Globally Recognized. Industry Respected.

SPECIFICATIONS AND APPLICATION DATA

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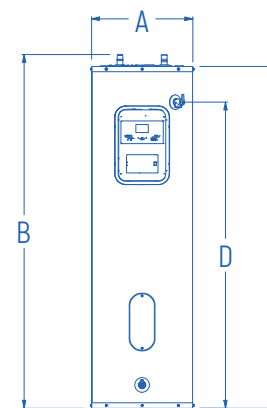
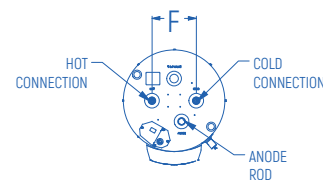
| MODEL NUMBER | NOMINAL VOLUME (GAL) | DOE RATED CAPACITY (GAL) | FIRST HOUR RATING (GAL) | UNIFORM ENERGY FACTOR | GPH RECOVERY AT 90° RISE | EST. YEARLY ENERGY COST | ELEMENT WATTAGE | ELECTRICAL BREAKER SIZE | JACKET DIAM | DIMENSIONS IN INCHES (HEIGHT TO) | | | | | | APPROX. SHIP WEIGHT (LBS) |
|----------------------|----------------------|--------------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------|-------------------------|-------------|----------------------------------|---------------|----------|----------------------------|-----------------------------|-----|---------------------------|
| | | | | | | | | | | WATER CONN | TOP OF HEATER | SIDE T&P | WATER CONNECTIONS DISTANCE | REC DRAIN PAN DIAMETER (IN) | | |
| A | B | C | D | F | | | | | | | | | | | | |
| TALL (TOP CONNECTED) | | | | | | | | | | | | | | | | |
| ENS40T-DR-12 | 40 | 36 | 54 | 0.93 | 21 | 489 | 4,500 | 25 | 20 ¼ | 51 ¼ | 49 ¼ | 42 ½ | 8 | 22 | 117 | |
| ENS40H-DR-12 | 40 | 36 | 58 | 0.92 | 21 | 494 | 4,500 | 25 | 18 ¼ | 63 ½ | 61 ½ | 55 ¼ | 8 | 20 | 120 | |
| ENS50T-DR-12 | 50 | 46 | 61 | 0.92 | 21 | 494 | 4,500 | 25 | 22 ¼ | 50 ¾ | 48 ¾ | 41 ¾ | 8 | 24 | 136 | |
| ENS50H-DR-12 | 50 | 46 | 67 | 0.92 | 21 | 494 | 4,500 | 25 | 20 ¼ | 61 ¾ | 59 ¾ | 53 ¼ | 8 | 22 | 142 | |

Recovery calculations used are based on 4500-watt elements used in non-simultaneous operation.

Water heaters are manufactured to voltage and wattage specifications. When less than design voltage is supplied to the unit, the element will still heat, but at less than the design value.

| POWER DERATING VALUES | |
|-----------------------|---------------|
| Voltage | |
| 240 | 208 |
| Power | Derated Power |
| 4,500 | 3,380 |

- All models are UL and CEC listed and meet or exceed ASHRAE 90.1 b.
- Heaters are wired for non-simultaneous operation, single phase 240 Volts with dual 4500 Watt elements, unless otherwise specified.
- All models are certified at 300 PSI test pressure and 150 PSI working pressure.
- Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.



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SAMPLE SPECIFICATION

Water heater shall be AMERICAN STANDARD WATER HEATERS model _____ having a storage capacity of _____ gallons, a rated input of _____ KW at _____ Volts, single phase 60 Cycle AC and a recovery rate of _____ gallons per hour at 90°F temperature rise. Water heater tank interior shall be glass lined with Dura-Glas™, furnished with anode rod and insulation shall be non-CFC foam. Water heater shall be EcoPort certified. Water heater shall be tested and listed to Underwriters Laboratories standard UL 174.