

Essential[®]

Essential with Demand Response High Efficiency electric water heaters are engineered for longer life and connection to utility demand response programs for energy savings

EFFICIENCY

- .92 - .93 UEF
- Dual 3800 or 4500 watt copper heating elements

PERFORMANCE

- FHR: 51 - 74 gallons, based on gallon capacity
- Recovery: 17 to 21 GPH at a 90° F rise, depending on model**

LONGER LIFE

- Premium grade anode rod provides long-lasting tank protection

FEATURES

- User friendly interface on unit to easily adjust set temperature
- Error code functionality triggers an audio alert to help prevent potential water heater downtime
- Offers self-diagnostic control systems with LED lights indicating service is needed

- Demand response ready EcoPort (CTA-2045 port) is built in for easy connect to utility demand response programs
- High performance and lower operating cost
- Compliant with many electric utility incentive programs
- Electric junction box located above heating elements for easy installation
- Over-temperature protector cuts off power in excess temperature situations

PLUS...

- Temperature and pressure relief valve included

WARRANTY

- 6-Year limited warranty for tank and parts, 2 years limited warranty for labor



*Essential with
Demand Response
High Efficiency*
40, 50 and 55-Gallon Capacities
240 Volt AC/Single Phase
Electric



AHRP CERTIFIED



LEED Point = 1

Essential[®]

Essential Electric with Demand Response High Efficiency Specifications

| TYPE | DESCRIPTION | | | FEATURES | | ROUGHING IN DIMENSIONS (SHOWN IN INCHES) | | | | ENERGY INFO. |
|-------|-------------------------|-----------------------|--------------|-----------------------------|-------------------------------|--|-------------------------|------------|-------------------------|-----------------------------|
| | NOMINAL GALLON CAPACITY | RATED GALLON CAPACITY | MODEL NUMBER | FIRST HOUR RATING (GALLONS) | RECOVERY IN G.P.H. 90° F RISE | TANK HEIGHT A | HEIGHT TO WATER CONN. B | DIAMETER C | APPROX. SHIP WT. (LBS.) | UNIFORM ENERGY FACTOR (UEF) |
| Tall | 55 | 55 | 6E55-DCG | 74 | 21 | 57 | 59-3/4 | 22-1/4 | 131 | 0.92 |
| Tall | 50 | 45 | 6E50-DCG | 63 | 21 | 58-1/2 | 61-3/4 | 20-1/4 | 124 | 0.92 |
| Tall | 40 | 36 | 6E40-DCG | 55 | 21 | 60-3/4 | 63-5/8 | 18-1/4 | 108 | 0.92 |
| Med. | 50 | 45 | 6EM50-DCG | 63 | 21 | 48 | 50-1/2 | 22-1/4 | 131 | 0.92 |
| Med. | 40 | 36 | 6EM40-DCG | 55 | 21 | 48-3/8 | 50-1/4 | 20-1/4 | 109 | 0.93 |
| Short | 38 | 35 | 6ESB40-DCG | 51 | 21 | 31-1/2 | 32-5/8 | 23 | 111 | 0.92 |
| Short | 36 | 33 | 6ES40-DCG | 51 | 21 | 31-1/2 | 33 | 24-1/4 | 121 | 0.92 |
| Short | 47 | 43 | 6ES50-DCG | 54 | 21 | 32 | 34 | 26-1/4 | 152 | 0.92 |

Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements.

• Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 3800 or 4500 watt upper and lower heating elements.

**Recovery = wattage / 2.42 x temp. rise °F.
 Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$

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



LEED Point = 1

