

# Essential Plus

Essential Plus electric water heaters are engineered for longer life, high performance and lower operating cost

## EFFICIENCY

- .93 UEF
- Isolated tank design reduces conductive heat loss
- Dual 4500 watt elements, stainless steel lower element for longer life

## PERFORMANCE

- FHR: 55 - 63 gallons, based on gallon capacity
- Recovery: 21 GPH at a 90° F rise

## ELECTRONIC LED DIAGNOSTICS

- Glowing LED lights verify heating element operation and indicate power ON
- LEDs flash to pin-point non-functioning upper or lower heating elements

## LONGER LIFE

- Premium grade anode rod provides long-lasting tank protection against corrosion
- EverKleen® helix diffuser reduces sediment improving tank life and efficiency

## FEATURES

- 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
- Automatic thermostat keeps water at desired temperature

## PLUS...

- Temperature and pressure relief valve included
- Low lead compliant
- Listed with UL and in compliance with UL spec 174. HUD certified for use in manufactured housing and modular construction

## WARRANTY

- 9-Year limited tank and parts warranty\*

\*See Residential Warranty Certificate for complete information

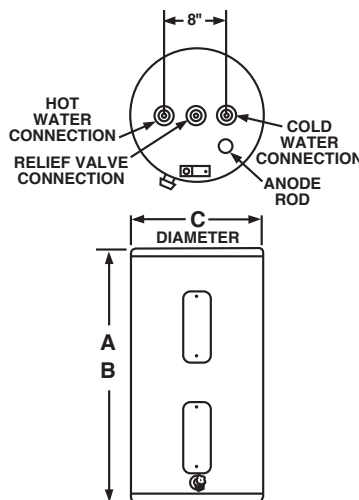
Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.



Essential Plus  
40 and 50-Gallon Capacities  
240 Volt AC/Single Phase  
Electric



LEED Point = 1



WATER CONNECTIONS ALL 3/4" N.P.T.

TYPE	DESCRIPTION			FEATURES		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY INFO.
	NOMINAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	FIRST HOUR RATING G.P.H.	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	50	45	9E50-DEL	63	21	58-5/8	61-5/8	20-3/8	121	0.93
Med.	40	36	9EM40-DEL	55	21	48-1/4	50-1/2	20-1/4	106	0.93
Med.	50	45	9EM50-DEL	62	21	48	50-1/2	23	132	0.93

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

$$\text{Recovery} = \frac{\text{wattage}}{2.42 \times \text{temp. rise } ^\circ\text{F}}$$

Example:  $\frac{4500\text{W}}{2.42 \times 90^\circ} = 21 \text{ GPH}$

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 4500 watt upper and lower heating elements.
- **If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.**
- Special Wiring Options – A limited number of special wiring options are available. Consult factory for price and availability.
- All models equipped with heat traps.

In keeping with its policy of continuous progress and product improvement, Richmond reserves the right to make changes without notice.