

Essential

Essential electric water heaters are engineered for longer life – resisted heating elements and premium grade anode rod

EFFICIENCY

- .90 - .93 UEF
- Isolated tank design reduces conductive heat loss
- 4500 Watt resisted copper elements to prolong anode rod and tank life

PERFORMANCE

- FHR: 45 - 63 gallons, based on gallon capacity
- Recovery: 21 GPH at a 90° F rise†

LONGER LIFE

- Premium grade anode rod provides long-lasting tank protection

FEATURES

- 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...

- EverKleen® helix diffuser reduces sediment improving tank life and efficiency

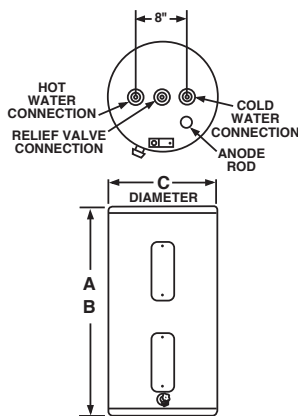
- Temperature and pressure relief valve included
- HUD certified for manufactured housing and modular construction
- Low lead compliant

WARRANTY

- 6-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.



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

Essential
28, 30, 36, 38, 40, 47 and
50-Gallon Capacities
240 Volt AC/Single Phase
Electric



Ask about LEED Points

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	30	27	6E30-D	46	21	47-1/2	50-3/8	19	92	0.92
Tall	40	36	6E40-D	55	21	60-3/4	63-5/8	19-1/4	109	0.93
Tall	50	45	6E50-D	63	21	58-5/8	61-5/8	20-3/8	121	0.93
Med.	30	27	6EM30-D	45	21	37-1/2	40-1/2	20-1/4	92	0.90
Med.	40	36	6EM40-D	55	21	48-3/8	50-1/2	20-1/4	106	0.93
Med.	50	45	6EM50-D	62	21	48	50-1/2	23	132	0.93
Short	28	25	6ES30-D	45	21	30	31-1/8	23	95	0.92
Short	28	26	6ESB28-1*	45	21	30	32-1/4	19-3/4	95	0.92
Short	36	33	6ES40-D	46	21	31-1/2	33	24-1/4	118	0.92
Short	38	35	6ESB40-2**	51	21	31-1/2	34	23	108	0.92
Short	47	43	6ES50-D	54	21	32	32	26-1/4	148	0.93

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

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

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

*Insulation blanket(s) required to achieve UEF value. Water heater dimensions prior to installing insulation blanket(s). Blanket(s) will be included with water heater. The blanket(s) add 2-1/2 inches to the tank height and 5 inches to tank diameter.

**Insulation blanket(s) required to achieve UEF value. Water heater dimensions prior to installing insulation blanket(s). Blanket(s) will be included with water heater. The blanket(s) add 2 inches to the tank height and 4 inches to tank diameter.

- 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.**
- Single element models available on special order (6000W max.). Substitute "1" for "2" in model number.
- 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.