

# Essential

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

## EFFICIENCY

- .90 - .93 UEF
- Isolated tank design reduces conductive heat loss
- 4500 Watt resourced 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™ self cleaning device fights harmful sediment build-up with a high-velocity spiraling water stream – helps operating efficiency by saving energy, money and improving tank life

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

## WARRANTY

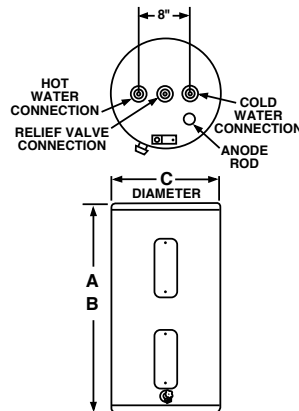
- 6-Year limited tank and parts warranty\*

\*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.



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



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



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 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)	ESTIMATED YEARLY ENERGY COST
Tall	30	27	6E30-D	46	21	47-1/2	50-3/8	19-3/4	92	0.92	\$293
Tall	40	36	6E40-D	55	21	60-3/4	63-5/8	19-1/4	109	0.93	\$419
Tall	50	45	6E50-D	63	21	58-5/8	61-5/8	20-3/8	121	0.93	\$419
Med.	30	27	6EM30-D	45	21	37-1/2	40-1/2	20-1/4	92	0.90	\$299
Med.	40	36	6EM40-D	55	21	48-3/8	50-1/2	20-1/4	106	0.93	\$419
Med.	50	45	6EM50-D	62	21	48	50-1/2	23	132	0.93	\$419
Short	28	25	6ES30-D	45	21	30	31-1/8	23	95	0.92	\$293
Short	30	27	6ESB30-2**	46	21	30-1/8	32	19-3/4	95	0.92	\$293
Short	36	33	6ES40-D	46	21	31-1/2	33	24-1/4	118	0.92	\$293
Short	38	35	6ESB40-2**	51	21	31-1/2	32-5/8	23	108	0.92	\$424
Short	47	43	6ES50-D	54	21	32	32	26-1/4	148	0.93	\$419

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.

\*\* Water heater dimensions prior to installing insulation blanket that is included with water heater

• 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.

Richmond Water Heaters • 1115 Northmeadow Parkway, Suite 100, Roswell, Georgia 30076

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