

# Encore<sup>®</sup>

## High Efficiency Solution for Builder 45L Tax Credits

THE RICHMOND<sup>®</sup> *ENCORE*<sup>®</sup>  
HYBRID ELECTRIC HEAT PUMP  
WATER HEATER

EARN UP TO  
**\$5,000**  
PER BUILD



*These products meet a stringent set of our company's internally defined sustainability standards.*

RICHMOND<sup>®</sup> *ENCORE*<sup>®</sup>  
Hybrid Electric Heat Pump Water Heater  
40-, 50-, 65- and 80-Gallon Capacities

## WHY ENCORE

# Achieve ENERGY STAR® and Zero Energy Ready Home Certification

Federal tax credits are designed to accelerate the adoption of high-efficiency water heaters and encourage a more sustainable future. As part of the recently passed Inflation Reduction Act, the Section 45L Tax Credit for Energy Efficient New Homes has been updated and extended out to 2032. The base-level tax credit for homes and units acquired on or after January 1, 2023 is specifically tied to meeting ENERGY STAR® program requirements for single-family, manufactured, and multifamily homes. Richmond Encore Hybrid Electric Heat Pump Water Heaters exceed requirements for both ENERGY STAR and DOE Zero Energy Ready Home certification out to 2025 helping builders qualify for 45L tax credits.

## Sustainability that **works**

Builders don't have to choose between sustainability goals and return on investment



### HEAT PUMP TECHNOLOGY

The Encore Hybrid Electric pulls heat energy from the air around it to heat water, making it the most efficient water heater on the market<sup>2</sup> with up to a 4.07 UEF

### ENERGY STAR CERTIFIED

Certification means new home builds meet water heater equipment efficiency requirements



DISCLAIMER: The information provided here does not constitute professional tax advice or other professional financial guidance. It should not be used as the only source of information when making decisions regarding design, purchasing, investments, or the tax implications of new home construction, or when executing other binding agreements. In the event that there is conflict between information provided on this webpage and guidance or notices published by IRS, the information published by IRS shall take precedence. More information can be found at [https://www.energystar.gov/partner\\_resources/residential\\_new/homes\\_prog\\_reqs/national\\_page](https://www.energystar.gov/partner_resources/residential_new/homes_prog_reqs/national_page)

**BUILDER FRIENDLY**



## Increase Your Return On Investment Federal Tax Credits for Builders

Richmond Encore Hybrid Electric Heat Pump Water Heaters make new home certification and qualifying for 45L tax credits easy to achieve. ENERGY STAR® certified homes qualify for \$2,500 in tax credits. Single family ENERGY STAR® plus Zero Energy Ready certified homes qualify for up to \$5,000 in tax credits. This adds up to substantial savings for builders. Installing hybrid electric heat pumps increases your return on investment for years to come all while protecting the planet.



### FITS MORE APPLICATIONS

With zero clearance requirement, the Encore Hybrid Electric is a great option for homes with less space, even in closets



### ENERGY STAR CERTIFICATION

Efficiency rating up to 4.07 UEF helps builders qualify for \$2,500 in tax credits



### CONVENIENT DESIGN

All serviceable parts and condensate line are on the front of the unit, making service and earthquake strap installs easy



### ZERO ENERGY READY HOME CERTIFICATION

Heat pump water heaters give builders design flexibility and exceed efficiency requirements helping qualify for \$5,000 in tax credits



### BEST-IN-CLASS WARRANTY

Builders can deliver peace-of-mind with a 10-year limited tank and parts warranty



### ENERGY SAVINGS

Homeowners save on energy costs while reducing greenhouse gas emissions

# ENERGY STAR® Single-Family New Homes PLUS DOE Zero Energy Ready Home program

## Earn up to \$5,000 in 45L Tax Credits

**DOE ZERH Version 2 effective Jan 1, 2024 | ENERGY STAR Version 3.2 effective Jan 1, 2025**

In all versions of ENERGY STAR New Construction certification including version 3.2, heat pump water heaters exceed the domestic hot water equipment efficiency requirements and help builders qualify for up to \$2,500 in federal tax credits. In addition, HPWHs add flexibility in DOE ZERH (Zero Energy Ready Home) design helping builders qualify for up to a combined \$5,000 in federal tax credits per build. The building must meet ENERGY STAR guidelines and achieve Zero Energy Ready Home requirements to meet the \$5,000 tax credit threshold. Eligible site-built or modular dwellings include but are not limited to single-family homes, duplexes and townhouses.

### ENERGY STAR Single-Family New Homes, Version 3.2- Water Heater Requirements

DHW equipment modeled at the following applicable efficiency levels, dependent on fuel type:

Gas: 0.90 UEF

Electric: 2.20 UEF

### DOE Zero Energy Ready Home

In addition to financial benefits, Richmond HPWHs allow additional home design flexibility. For example if a HPWH with a Uniform Energy Factor  $\geq 2.2$  is installed in the home, the hot water distribution system is allowed to store up to 1.2 gallons of water between the hot water source and the furthest fixture. This is .7 gallons more than the .5 gallons allowed for systems not requiring water heater minimum efficiencies.

### DOE ZERH, Version 2 Mandatory Requirements for Water Heating Efficiency (new baseline homes)

Water Heating Efficiency (choose 1 option)

Hot water delivery systems meet efficient design requirements – To minimize water wasted while waiting for hot water, the hot water distribution system shall store no more than 0.5 gallons (1.9 liters) of water in any piping/manifold between the hot water source and any hot water fixture.

Water heaters and fixtures meet the following efficiency criteria – a) Electric water heaters, if present, shall have a Uniform Energy Factor  $\geq 2.2$  b) All showerheads and bathroom sink faucets and aerators shall be WaterSense labeled. c) The hot water distribution system shall store no more than 1.2 gallons between the hot water source and the furthest fixture.

*\*additional system requirements apply. Visit <https://www.energy.gov/eere/buildings/zerh-single-family-version-2>*

### DOE ZERH, Version 2 - Target Home Water Heater Requirements

DHW equipment modeled at the following application efficiency levels based on Uniform Energy Factor (UEF):

Gas / Propane Systems: UEF = 0.95

Electric Systems: UEF = 2.57



# ENERGY STAR® Manufactured New Homes program

## Earn \$2,500 in 45L Tax Credits

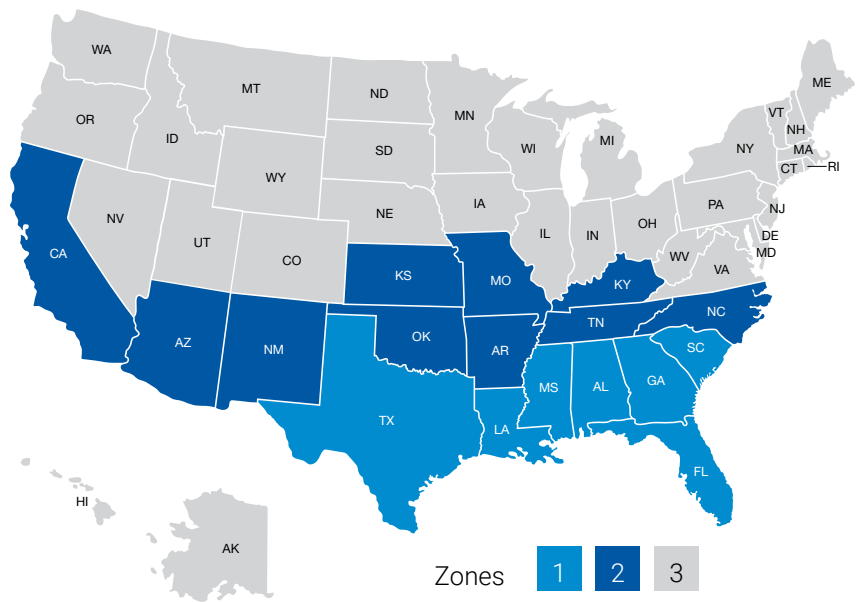
All Richmond Heat Pump Water Heaters exceed the water heating equipment efficiency UEF requirements for ENERGY STAR Manufactured New Homes program and help builders qualify for \$2,500 in federal tax credits. Due to a high point value, installing a Hybrid Electric HPWH in addition to the mandatory Version 3 requirements allows the manufacturer to achieve ENERGY STAR certification in all three climate zones. This simplifies certification because there is no need to select additional equipment, improvements, or fixtures. No other options contribute as high point value other than heat pump heating and cooling equipment.

### Version 3 Rev.1 Effective Jan 1, 2023 with 1 Year Transition Allowed

The ENERGY STAR manufactured homes produced on or after January 1, 2024 must be certified using Version 3 of the program requirements. Version 3 moves to a multi-section manufactured home point system rating and references water heater equipment efficiency standards.

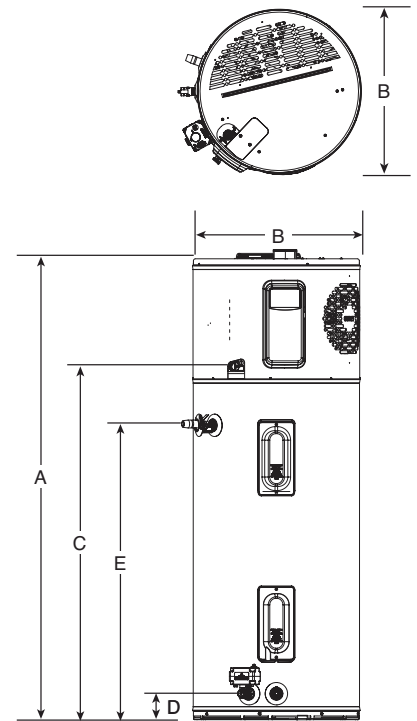
### ENERGY STAR Manufactured New Homes Program, Version 3 - Certification Requirements Point Rating System Table

The first measure in the Version 3 table represents the mandatory requirement points by climate zone, which may be counted towards the required 10 points total. Selecting a Richmond Hybrid Electric Heat Pump Water Heater for the optional water heater equipment in addition to the mandatory requirements allows the manufacturer to achieve ENERGY STAR certification in all three climate zones.



Energy Efficiency Measures		Point Value		
		CZ 1	CZ 2	CZ 3
Mandatory requirements as detailed in [publication/rule #]		7.5	2.5	2.0
Optional Water Heater Equipment				
Heat Pump Water Heater ≥ 3.30 UEF	With other primary space heating systems	11.5	13.0	9.0
Heat Pump Water Heater ≥ 2.20 UEF		9.0	10.0	7.5
Heat Pump Water Heater ≥ 3.30 UEF	With electric furnace, electric strip, or electric base-board primary space heating	7.5	7.0	1.5
Heat Pump Water Heater ≥ 2.20 UEF		6.0	5.5	1.5
Gas / Propane Water Heater ≥ 0.93 UEF		4.5	3.5	0.5

# Encore<sup>®</sup>



## Richmond<sup>®</sup> Encore<sup>®</sup> Hybrid Specifications

DESCRIPTION				ENERGY INFO	FEATURES				TANK DIMENSIONS					
NORMAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	ELECTRIC BREAKER SIZE	UNIFORM ENERGY FACTOR (UEF)	ELEMENT WATTAGE	COMPRESSOR BTU	FIRST HOUR RATING (GALLONS)	RECOVERY IN G.P.H. 90° F RISE	HEIGHT (A)	DIAMETER (B)	HEIGHT TO CONDENSATE CONNECTION (C)	HEIGHT TO COLD INLET & DRAIN (D)	HEIGHT TO HOT OUTLET AND T&P (E)	APPROX. SHIP WT. (LBS)
<b>Encore Hybrid with LeakGuard™ - 30 AMPS</b>														
40	36	10E40-HP5S30	30	3.83	4,500	4200	60	26	62-5/16"	20-1/4"	47"	3-5/8"	39-5/8"	174
50	45	10E50-HP5S30	30	3.88	4,500	4200	67	27	61-3/4"	22-1/4"	47"	3-5/8"	39-5/8"	218
65	59	10E65-HP5S30	30	4.05	4,500	4200	75	27	64-3/16"	24-1/4"	49"	3-7/8"	42-3/8"	262
80	72	10E80-HP5S30	30	4.07	4,500	4200	87	27	74-3/16"	24-1/4"	59"	3-7/8"	42-3/8"	281
<b>Encore Hybrid without LeakGuard™ - 30 AMPS</b>														
50	45	10E50-HP530	30	3.88	4,500	4200	67	27	61-3/4"	22-1/4"	47"	3-5/8"	39-5/8"	218
80	72	10E80-HP530	30	4.07	4,500	4200	87	27	74-3/16"	24-1/4"	59"	3-7/8"	42-3/8"	281
<b>Encore Hybrid without LeakGuard™ - 15 AMPS</b>														
50	45	10E50-HP515	15	3.75	2,250	4200	54	16	61-3/4"	22-1/4"	47"	3-5/8"	39-5/8"	218
80	72	10E80-HP515	15	3.70	2,250	4200	67	16	74-3/16"	24-1/4"	59"	3-7/8"	42-3/8"	281

Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements. All units have integrated Wi-Fi control board.

# Qualify for Tax Credits While Giving Homeowners Energy Cost Savings for Years

The Richmond® Encore® Hybrid Electric Heat Pump Water Heater is the most efficient water heater on the market, helping homeowners save up to \$491 per year in energy costs—that’s almost \$5,000 over 10 years!<sup>1</sup>

## TIME-OF-USE / DEMAND RESPONSE SCHEDULING

Homeowners can save up to \$400 over the life of the heater with time-of-use energy rate scheduling and demand response program participation<sup>3</sup>

## ENERGY SAVING SCHEDULING

Program the water heater to match demand throughout the day—higher production during high use times, like the morning, and lower production for energy savings when no one is home<sup>3</sup>

## SET AWAY MODE

Reduce water heating costs while homeowners are away for a week or just for the day—it’s easy to set from a phone from anywhere through the free Richmond EcoNet app<sup>4</sup>

### SEE HOW HYBRID ELECTRIC STACKS UP AGAINST ELECTRIC WATER HEATERS<sup>5</sup>

	<b>RICHMOND HYBRID ELECTRIC WITH LEAKGUARD</b>	<b>⚡ STANDARD ELECTRIC</b>
SIZE	Hybrid Annual Operating Cost	Electric Annual Operating Cost
40 Gallon	<b>\$119</b>	\$489
50 Gallon	<b>\$117</b>	\$489
65 Gallon	<b>\$171</b>	Not Available
80 Gallon	<b>\$171</b>	2 x 40-Gal AOC of \$489 = \$978 <sup>6</sup>
Operating Modes	<b>Energy Saver, Heat Pump, High Demand, Electric and Away</b>	No Mode Options
Warranty	<b>10-Year</b>	6-Year
Water Leak Detection	✓	X
Auto Water Shut-off	✓	X
Energy Saving Scheduling	✓	X
45L Tax Credit Eligible	✓	X

<sup>1</sup>Based on estimated annual operating cost savings of the 40, 50, 65 and 80-gallon hybrid electric models compared to a standard electric water heater of like capacity with minimum efficiency. \$491/year savings is the annual operating cost comparison of an 80-gallon hybrid electric (\$149) to an 80-gallon standard electric model (\$640) as of Dec. 31, 2021. <sup>2</sup>Based on the comparison of a 50-gallon Richmond Hybrid Electric model to a standard electric water heater of like capacity with minimum efficiency.; Payback based on average retail cost difference less available tax credits, rebates and annual operating costs savings. <sup>3</sup>Based on internal testing and the SMUD cost for peak / off peak pricing and season difference. <sup>4</sup>Wi-Fi broadband connection and Richmond EcoNet App required; connection between water heater and app dependent on external factors beyond Richmond’s control. <sup>5</sup>Based on estimated annual operating costs certified by the Federal Trade Commission. <sup>6</sup>DOE discontinued all 80-gallon standard electric models 12.31.21. 2x 40-gallon standard electric models equal 80-gallon hybrid tank capacity for accurate comparison.

## WHY ENCORE

Our comprehensive suite of efficient products empowers you to drive a more sustainable future with zero tradeoffs in value and comfort. Building on nearly a century of innovation, Richmond water heaters are designed to maximize HERS® building ratings, achieve certifications such as ENERGY STAR® and help builders qualify for tax credits. And behind every water heater is Richmond's expert support.



### Training Resources

Get comprehensive expert in-person and remote product training through our Innovation Learning Centers, RheemTraining.com, and online webinars.



### Industry's Fastest Lead Time

Our vast distribution network across the US and Canada means improved factory lead times to help avoid business downtime.



### Dedicated Technical Support

From our dedicated support team to resources such as My.RichmondWaterHeaters.com, live product assistance and more, Richmond is here to support you at every step.



## Contact Us

### Plumbing Support Team

866.339.2388

Visit us online at

[richmondwaterheaters.com/  
water-incentives](https://richmondwaterheaters.com/water-incentives)

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