

Essential®

Richmond® Essential RMTEX Tankless Electric Water Heaters

Provide Endless Hot Water in a Durable, Space-Saving Design

RMTEX - 18, RMTEX - 24, RMTEX - 27, RMTEX - 36 tankless electric water heaters are ideal for new construction builds and all applications in the home including point-of-use installation. The durable, compact design allows installation in tight spaces. In warmer climates, these models provide enough hot water to run multiple fixtures simultaneously. All RMTEX models include a lifetime limited warranty. To select a unit that meets electrical and hot water gallons per minute (GPM) requirements, please use the sizing guide.

PERFORMANCE FEATURES

- **Saves Space** – up to 93% smaller than a standard electric water heater
- **Saves Energy** – zero standby heat loss when installed near the point-of-use
- **More Hot Water** – up to 4 times the hot water delivery of a standard electric tank (per hour)
- **High Efficiency** – UEF up to .94 and advanced self-modulating technology only consumes the power needed to satisfy hot water demand
- Copper immersion heating elements fit into a multi-chamber design to improve the thermal performance providing better temperature control and faster recovery of hot water
- Copper heat exchanger transfers heat fast and resists corrosion
- Durable powder-coated shell with a galvanized steel backplate
- Brass NPT fittings located on the bottom for the inlet and outlet water connections provide strength and durability
- Designed to be mounted in an upright position with the inlet and outlet water connections at the bottom of the unit for ease of installation
- Venting is not required to operate, simplifying the installation process compared to a gas tankless water heater
- Digital thermostatic temperature controls in 1-degree increments ranging from 80°F - 140°F (26°C - 60°C)

WARRANTY

- Limited Warranty – 5 Years - Leaks, 1 Year - Parts
See Use and Care Manual for complete information.



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



Tested and certified by the Water Quality Association against NSF/ANSI 372 for lead free compliance.

TANKLESS ELECTRIC SPECIFICATIONS AND MINIMUM REQUIREMENTS

DESCRIPTION		FEATURES				DIMENSIONS (SHOWN IN INCHES)										
MODEL NUMBER	POWER (kW)	VOLTAGE	TOTAL UNIT AMPERAGE (AMPS)	RECOM'D BREAKER SIZE	HOUSEHOLD ELECTRICAL SERVICE PANEL RECOM'D	PHASE	UNIFORM ENERGY FACTOR (UEF)	REQUIRED WIRE (75°C INSULATION)	HEIGHT	WIDTH	DEPTH	WATER CONN.	SHIP WEIGHT (LBS.)	HEAT EXCHANGER	OPERATING PRESSURE	FLOW ACTIVATION RATE (GPM)
240V* 2 HEATING CHAMBERS																
RMTEX - 18	18	240	75	2 x 40 A Double Pole	150 AMPS	1	0.94	2 x 8 AWG*	17	14	3.635	3/4" NPT	14.78	Copper	Min: 25 PSI Max: 150 PSI	0.3 GPM
240V* 3 HEATING CHAMBERS																
RMTEX - 24	24	240	100	3 x 40 A Double Pole	200 AMPS	1	0.93	3 x 8 AWG*	17	17	3.625	3/4" NPT	17.8	Copper	Min: 25 PSI Max: 150 PSI	0.3 GPM
RMTEX - 27	27	240	113	3 x 40 A Double Pole	200 AMPS	1	0.93	3 x 8 AWG*	17	17	3.625	3/4" NPT	17.8	Copper	Min: 25 PSI Max: 150 PSI	0.3 GPM
240V* 4 HEATING CHAMBERS																
RMTEX - 36	36	240	150	4 x 40 A Double Pole	300 AMPS	1	0.94	4 x 8 AWG*	17	21	3.625	3/4" NPT	22.7	Copper	Min: 25 PSI Max: 150 PSI	0.3 GPM

* 240V units can be used on 208V single phase with 25% reduced temperature output. Please note per UL standards the rating plate and installation instructions will all be according to a 240V applied voltage. Check with local officials prior to derating the electrical infrastructure.

NOTE: When converting from an electric tank to an electric tankless water heater, household electric service panel upgrades are often required. Please see the electric service panel recommendations above.

*AWG - American Wire Gauge

WHOLE HOME



RMTEX-18



RMTEX-24

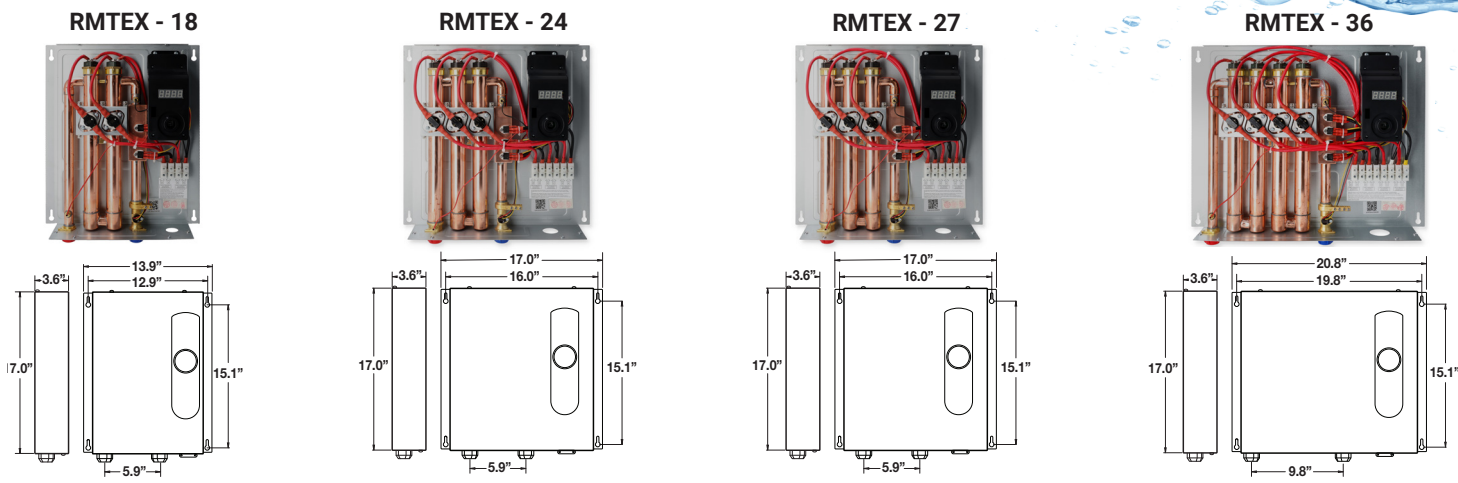


RMTEX-27



RMTEX-36

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SIZING A TANKLESS ELECTRIC WATER HEATER

IMPORTANT – Verify that your home meets the electrical requirements. See specifications and minimum requirements. (front side)

1 Estimate your total household gallons per minute (GPM) needs by adding up the average flow rates by fixture (showers, faucets, dishwasher, washing machine) **that run at the same time.**

Ex. 1 shower and 1 kitchen faucet running at the same time adds up to 3.5 GPM (2 + 1.5 = 3.5 GPM)

Average Flow Rates (GPM) by Fixture

Low Flow Faucet	0.5
Bathroom Faucet	1
Kitchen Faucet	1.5
Shower	2
Dishwasher	2
Washing Machine	3

Flow rates may vary.

3 Select the model that can supply you with the estimated total household gallons per minute (Step 1) with the ground water temperature in your zone.

Flow Rate Capacity Table by Zone (Gallons Per Minute - GPM)

Model #	Zone 1 37°F/ 3°C	Zone 2 42°F/ 5°C	Zone 3 47°F/ 8°C	Zone 4 52°F/ 11°C	Zone 5 57°F/ 14°C	Zone 6 62°F/ 17°C	Zone 7 67°F/ 20°C	Zone 8 72°F/ 22°C	Zone 9 77°F/ 28°C
RMTEX - 18	1.8	2.0	2.1	2.3	2.6	2.9	3.2	3.7	4.4
RMTEX - 24	2.4	2.6	2.8	3.1	3.4	3.8	4.3	5.0	5.9
RMTEX - 27	2.7	2.9	3.2	3.5	3.8	4.3	4.9	5.6	6.6
RMTEX - 36	3.6	3.9	4.2	4.6	5.1	5.7	6.5	7.5	8.8

Flow rates are calculated to a set point of 105°F. Ground water temperature varies seasonally.

OPTIONAL – Flow Regulator Sizing Table by Zone (Gallons Per Minute – GPM)

The flow regulator fitting threads onto the outlet water connection and limits the outlet flow to the GPM specified in the table. Select the appropriate GPM insert for your model based on your zone. This is an optional part to ensure accurate

Model #	kW	Connection Size	Part #	Zone 1	Zone 2/3	Zone 4/5	Zone 6/7	Zone 8/9
				37°F/ 3°C	42-47°F/ 5-8°C	52-57°F/ 11-14°C	62-67°F/ 17-20°C	72-77°F/ 22-28°C
RMTEX - 18	18	¾" NPT	IFR 3-4	-	2.0	2.0	2.0	3.0
RMTEX - 24	24	¾" NPT	IFR 3-4	2.0	2.0	3.0	3.0	4.0
RMTEX - 27	27	¾" NPT	IFR 3-4	2.0	2.0	3.0	4.0	5.0
RMTEX - 36	36	¾" NPT	IFR 3-4	3.0	4.0	4.0	5.0	-

NOTE: (-) indicates flow regulator insert is not recommended in this zone.

2 Locate your zone on the map.

U.S. Average Ground Water Temperature Zone Map

