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› [Rheem RTEX-06T 6.5kW 240V Point-of-Use Tankless Electric Water Heater Instruction Manual](#)

Rheem RTEX-06T

Rheem RTEX-06T 6.5kW 240V Point-of-Use Tankless Electric Water Heater Instruction Manual

Model: RTEX-06T

1. PRODUCT OVERVIEW

The Rheem RTEX-06T is a 6.5kW 240V thermostatic tankless electric water heater designed for point-of-use applications. This compact unit provides endless on-demand hot water, ensuring consistent temperature within 1 degree of the selected setting. Its design aims to save space and energy by heating water only when needed.



Figure 1: Front view of the Rheem RTEX-06T Tankless Electric Water Heater.

Key Features:

- **Endless On-Demand Hot Water:** Provides continuous hot water without running out.
- **Thermostatic Control:** Maintains water temperature within 1 degree of the selected setting through continuously monitored water temperature and controlled flow rates.
- **Space-Saving Design:** Approximately 90% smaller than traditional tank heaters, ideal for point-of-use installation.
- **Energy Efficient:** Heats water only when in use, reducing energy consumption.

2. SAFETY INFORMATION

Read and understand all instructions before installing or operating this water heater. Failure to follow these instructions could result in property damage, serious injury, or death. This appliance must be installed by a qualified

professional in accordance with all local electrical and plumbing codes.

Important Safety Precautions:

- Ensure the electrical supply meets the unit's requirements (240V, 6.5kW).
- Do not attempt to install or service this unit if you are not qualified.
- Always shut off power to the unit before performing any maintenance or service.
- Water temperatures above 125°F (52°C) can cause severe burns or scalding. Refer to the manual for safe temperature settings.

3. INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Rheem RTEX-06T water heater. It is recommended that installation be performed by a licensed electrician and plumber.

Pre-Installation Checklist:

- Confirm your residence's electrical service meets the selected unit's requirements (240V, 6.5kW).
- Check the selected unit's hot water output can support your home's sinks and showers.
- Verify the unit can deliver your required water temperature in your region, considering groundwater temperature.
- Ensure required installed unit clearance is available.

RTEX-04T & RTEX-06T

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 (faucets), including any **that will run at the same time**.
Ex. 2 low flow faucets running at the same time adds up to 1 GPM (0.5 + 0.5 = 1 GPM)

Average Flow Rates (GPM) by Fixture

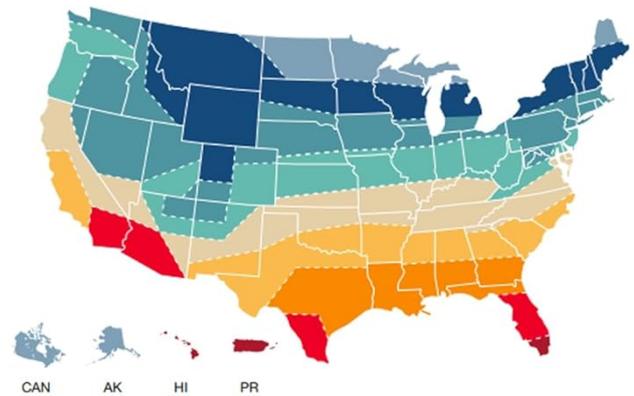
Low Flow Faucet	0.5
Bathroom Faucet	1
Kitchen Faucet	1.5*
Low Flow Shower	1.5*

*RTEX - 06T is only suitable in zone 9 (S. Florida, Hawaii, and Puerto Rico).

Flow rates may vary.

- 2 Locate your zone on the map.

U.S. Average Ground Water Temperature Zone Map



- 3 Select the model that can supply 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
RTEX - 04T	Not Recommended				0.5	0.6	0.6	0.7	0.9
RTEX - 06T	0.7	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.6

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

Figure 2: Sizing chart for Rheem RTEX-04T and RTEX-06T models, illustrating average flow rates by fixture and U.S. average groundwater temperature zones to determine appropriate model selection.

Mounting and Connections:

The compact design allows for installation directly at the point-of-use, such as under a sink. Ensure the unit is securely mounted to a wall.



Figure 3: Example of the Rheem RTEX-06T installed discreetly under a kitchen sink, highlighting its compact size for point-of-use applications.



Figure 4: Angled view of the Rheem RTEX-06T, showing the hot and cold water inlet/outlet connections at the bottom of the unit.

Installation Video:

Your browser does not support the video tag.

Video 1: A short preview demonstrating the compact size and basic connections of the Rheem Tankless Electric Water Heater, useful for understanding initial setup.

4. OPERATING INSTRUCTIONS

The Rheem RTEX-06T features user-friendly controls for setting your desired water temperature.



Figure 5: Close-up of the Rheem RTEX-06T's digital temperature display and control buttons for easy adjustment.

Setting the Temperature:

1. Ensure the unit is powered on.
2. Use the digital temperature display and control buttons to adjust the desired water temperature. The unit typically allows settings between 80°F and 140°F.
3. The self-modulating power control will automatically adjust energy usage to maintain the set temperature.

Operation Video:

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Video 2: A short video demonstrating the digital temperature display and dial control on a Rheem tankless electric water heater, showing how to adjust the temperature setting.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your Rheem tankless water heater. Consult the full user manual for detailed maintenance procedures.

General Maintenance Tips:

- Periodically inspect the unit for any leaks or visible damage.
- Ensure proper ventilation around the unit if applicable.

- For optimal performance, consider annual flushing and descaling, especially in areas with hard water. This procedure should be performed by a qualified professional.

6. TROUBLESHOOTING

If you experience issues with your Rheem RTEX-06T water heater, refer to the comprehensive troubleshooting guide in the full user manual. For complex problems or if you are unsure, contact a qualified service technician or Rheem customer support.

Common Issues (Consult Manual for Solutions):

- No hot water or insufficient hot water.
- Error codes displayed on the unit.
- Water temperature fluctuations.

7. SPECIFICATIONS

Below are the technical specifications for the Rheem RTEX-06T 6.5kW 240V Point-of-Use Thermostatic Tankless Electric Water Heater.



Figure 6: Dimensions of the Rheem RTEX-06T Tankless Electric Water Heater, showing its compact size.

Feature	Specification
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Feature	Specification
Brand	Rheem
Model Number	RTEX-06T
Power Source	AC/DC
Wattage	6500 watts
Voltage	240 Volts
Product Dimensions (W x H)	10.88"W x 5.88"H
Item Depth	3"
Item Weight	4 Pounds
Flow Rate	1.5 Gallons Per Minute
Maximum Temperature	140 Degrees Fahrenheit
Heat Output	105 Degrees Fahrenheit
Maximum Pressure	150 Pound per Square Inch
Mount Type	Wall
Included Components	RTEX-06T Tankless Electric Water Heater

8. WARRANTY AND SUPPORT

The Rheem RTEX-06T Tankless Electric Water Heater comes with a **one (1) year parts warranty** and a **five (5) year leak warranty**.

For technical assistance, warranty claims, or to locate a qualified service professional, please contact Rheem customer support. You can find contact information on the Rheem website or in the packaging materials.

Additional Information Video:

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Video 3: A seller-provided video highlighting the benefits of instant hot water, space-saving design, and potential money savings with a Rheem tankless water heater.

