

Ranein RC25G-W

Ranein WarmCube 2.5 Gallon Electric Mini Tank Water Heater

Model: RC25G-W

IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before installing or operating this water heater. Failure to follow these instructions may result in property damage, personal injury, or death.

- This appliance must be installed by a qualified plumber or electrician in accordance with all local codes and regulations.
- Ensure the power supply matches the specifications of the unit (120V, 1440W).
- Do not operate the water heater if it is not filled with water.
- Install a temperature and pressure relief (T&P) valve as specified in the installation instructions.
- Do not block or tamper with the T&P valve.
- Maintain proper clearances around the unit for ventilation and service.
- Disconnect power before performing any maintenance or service.

PRODUCT OVERVIEW

The Ranein WarmCube 2.5 Gallon Electric Mini Tank Water Heater is designed to provide instant hot water at the point of use, reducing wait times and conserving energy. Its compact design allows for versatile installation in various settings.

Key Features

- **2.5 Gallon Capacity:** Stores heated water for immediate use.
- **1440W Heating Element:** Provides rapid heating for on-demand hot water.
- **Durable Stainless Steel Tank:** Resists corrosion for extended product life.
- **Triple-Layer Insulation:** Features enamel coating, high-density insulation foam, and a reinforced decarburized steel plate for superior heat preservation and reduced energy loss.
- **Adjustable Thermostat:** Allows precise temperature control up to 85°C (185°F).

- **Enhanced Safety:** Includes high-temperature resistance, high-pressure resistance (up to 1.0 MPa), dry-burn protection, IPX4 waterproof rating, and advanced leakage prevention.
- **Versatile Installation:** Can be installed under-sink, on a wall, or floor-mounted.

Unit Components

The water heater includes the main unit, a temperature and pressure relief (T&P) valve, mounting brackets, and screws.



Image: Front view of the Ranein WarmCube 2.5 Gallon Electric Mini Tank Water Heater, showing the control knob and inlet/outlet connections.

SPECIFICATIONS

Detailed technical specifications for the Ranein WarmCube 2.5 Gallon Electric Mini Tank Water Heater.

Specification	Value
Brand	Ranein
Model Number	RC25G-W
Capacity	2.5 Gallons
Voltage	120 Volts
Wattage	1440 Watts
Maximum Temperature	85°C (185°F)
Maximum Operating Pressure	100 PSI (1.0 MPa)
Waterproof Rating	IPX4
Product Dimensions (W x H x D)	13.39" x 13.39" x 11.42"
Item Weight	17.63 pounds
Mounting Type	Floor, Wall

Product Parameters



Image: Visual representation of the water heater's dimensions and key specifications, including capacity, voltage, power, max water pressure, weight, amperage, and waterproof grade.

INSTALLATION

Before Installation

- Verify that the installation location is suitable for the unit's size and weight when full.
- Ensure access to a standard 120V electrical outlet.
- Confirm that water supply lines are accessible and can be connected to the unit.
- Turn off the main water supply and electrical power to the installation area.

Mounting Options

The Ranein WarmCube 2.5 can be installed in several configurations:

- **Under-Sink:** Ideal for kitchens and bathrooms where space is limited.
- **Wall-Mounted:** Use the provided mounting brackets and screws to secure the unit to a sturdy wall surface.

- **Floor-Mounted:** Place the unit on a stable, level surface.



Image: Depicts the water heater installed under a sink and wall-mounted in a bathroom vanity, illustrating versatile placement options.

Plumbing Connections

1. Install the provided Temperature and Pressure (T&P) relief valve into the designated port on the top of the water heater. Ensure a watertight seal using appropriate sealant (e.g., PTFE tape).
2. Connect the cold water inlet (blue port) to your cold water supply line.
3. Connect the hot water outlet (red port) to your hot water faucet or fixture.
4. Open the hot water faucet at the fixture to allow air to escape from the tank as it fills with water.
5. Once water flows steadily from the hot water faucet, close the faucet. Check all connections for leaks.

Your browser does not support the video tag.

Video: Demonstrates the installation of the pressure relief valve onto the Ranein mini tank water heater, showing the proper threading and tightening process.

Electrical Connection

- Plug the water heater's power cord into a grounded 120V electrical outlet.
- Ensure the outlet is dedicated and properly rated for the appliance's wattage (1440W).

OPERATION

Initial Startup

1. After plumbing and electrical connections are complete and checked, turn on the electrical power to the unit.
2. The heating indicator light will illuminate, indicating that the water heater is actively heating the water.
3. Allow sufficient time for the water to reach the desired temperature.

Temperature Adjustment

- The water heater features a front-mounted rotary knob for temperature adjustment.
- Rotate the knob clockwise to increase the temperature and counter-clockwise to decrease it.
- The temperature range is typically between 55°F (13°C) and 145°F (63°C). Adjust to a comfortable and safe level.
- For energy efficiency, consider setting the temperature to the lowest comfortable setting.

Multiple Installation Options

Support floor mount and wall mount installation



Undersink



On Wall

Image: Illustrates the temperature adjustment knob on the water heater, with examples of suitable temperatures for various uses like washing dishes, vegetables, brushing teeth, and washing face.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your water heater.

Routine Maintenance

- **Annual Inspection:** Have a qualified professional inspect the unit annually for any signs of wear, corrosion, or leaks.
- **T&P Valve Test:** Test the T&P relief valve at least once a year by lifting the lever. Ensure water flows freely and then reseats properly. If it does not, replace the valve.
- **Exterior Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.

Draining the Tank

If the unit will be unused for an extended period or if there is a risk of freezing, drain the tank:

1. Turn off the electrical power to the water heater.
2. Turn off the cold water supply to the unit.
3. Open a hot water faucet at a nearby fixture to relieve pressure.
4. Carefully open the drain valve (if equipped) or disconnect the cold water inlet to allow the tank to drain.
5. Once drained, leave the faucet open and the cold water inlet disconnected until ready to refill.

TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
No hot water	No power; Thermostat set too low; Heating element failure	Check power supply/breaker; Adjust thermostat; Contact customer support
Water not hot enough	Thermostat set too low; High hot water demand; Cold water mixing	Increase thermostat setting; Allow time for recovery; Check for cross-connection
Water too hot	Thermostat set too high	Decrease thermostat setting
Leaking from T&P valve	Excessive pressure; Faulty valve	Check water pressure; Replace T&P valve
Unit making noise	Sediment buildup in tank	Drain and flush the tank (refer to maintenance section)

WARRANTY AND SUPPORT

Ranein products are manufactured to high-quality standards and are backed by a limited warranty. Please refer to the warranty card included with your purchase for specific terms and conditions.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Ranein customer support through the retailer where the product was purchased or visit the official Ranein website for contact information.



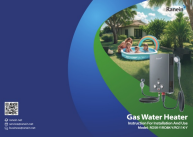


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Related Documents - RC25G-W



[Ranein Mini Tank Water Heater Installation and Use Manual](#)

Comprehensive guide for installing and using Ranein Mini Tank Water Heaters, models RC25G-W, RC40G-W, and RC80G-W. Includes safety information, product details, installation instructions, troubleshooting, and maintenance.

	<p><u>Ranein RV Tankless Water Heater: Installation and Operation Guide</u></p> <p>Comprehensive guide for installing, operating, and maintaining the Ranein RA65L and RA65S series RV tankless water heaters, including safety guidelines, troubleshooting, and specifications.</p>
	<p><u>Ranein RA65L RV Tankless Water Heater: Installation, Operation, and Safety Manual</u></p> <p>Comprehensive guide for the Ranein RA65L RV Tankless Water Heater, covering installation, operation, safety precautions, maintenance, and troubleshooting. Essential information for RV owners.</p>
	<p><u>Ranein 12L Propane Tankless Water Heater Installation Manual</u></p> <p>Installation manual for the Ranein 12L propane gas tankless water heater, providing up to 3.18 GPM and 68,000 BTU for on-demand hot water.</p>
	<p><u>Ranein RV Tankless Water Heater Installation and Use Manual</u></p> <p>Comprehensive instructions for installing and using the Ranein RV Tankless Water Heater. Covers safety warnings, product features, installation steps, operation, winterizing, and troubleshooting for models RA65EH, RA65LH, RA65SH, and RA65ZH.</p>
	<p><u>Ranein RO4K-Y Portable Tankless Gas Water Heater: Installation and Use Manual</u></p> <p>Comprehensive guide for the Ranein RO4K-Y portable tankless gas water heater, covering installation, operation, safety precautions, troubleshooting, and warranty information. Learn how to safely and effectively use your Ranein water heater for outdoor and recreational purposes.</p>