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# Reliance 6 Gallon Compact Electric Water Heater (Model 6-6-SOMS K)

Instruction Manual

## INTRODUCTION

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The Reliance 6 Gallon Compact Electric Water Heater, Series 606, is designed to provide efficient hot water for various needs. This unit features a 1650/120V electrical system and is UL listed for safety. Its compact design eliminates the need for a dip tube, with inlet and outlet connections conveniently located on the side for easier installation in confined spaces. The tank is glass-lined and includes an anode rod for corrosion protection, meeting NAECA codes. This manual provides essential information for the safe and effective installation, operation, and maintenance of your water heater.



Figure 1: Reliance 6 Gallon Compact Electric Water Heater. This image shows the compact white cylindrical unit with top-mounted connections, designed for under-sink or similar small-space installations.

## SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your Reliance water heater. This unit is designed for compact spaces and features side-mounted inlet and outlet connections for convenience. It requires hardwiring into your electrical system on its own 20 amp circuit.

### Key Installation Steps:

- Mounting:** The unit can be mounted on a wall, floor, or shelf. Ensure the mounting surface is sturdy enough to support the water heater when full (approximately 100 lbs for a 6-gallon unit). Use appropriate expansion screws and a mounting plate if wall-mounting.
- Water Connections:** Connect the cold water inlet and hot water outlet lines. The unit is designed without a dip tube, simplifying the

cold water inlet connection. Ensure all connections are wrapped with Teflon tape (at least 6 turns) to properly apply to prevent leaks.

3. **Pressure and Temperature Relief (T&P) Valve:** A T&P valve is factory-installed. Ensure it is correctly oriented and connected to a drain line to safely discharge water in case of overpressure or high temperature.
4. **Electrical Connection:** The water heater must be hardwired into a dedicated 120V, 20 amp electrical circuit. Consult a qualified electrician if you are unsure about this step.
5. **Filling the Tank:** Before powering on, ensure the tank is completely filled with water and all air is purged from the system by opening a hot water faucet until a steady stream of water flows.

## Installation Resources:

### Mizudo Electric Hot Water Heater Tank Installation Overview

Your browser does not support the video tag.

This video provides an overview of the Mizudo Electric Hot Water Heater, including installation steps and features. It demonstrates the general process of connecting a compact electric water heater, applicable to similar models like the Reliance 6 Gallon unit.

### Feelrogast Electric Water Heater Installation Tutorial

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This tutorial demonstrates the installation process for a compact electric water heater, including component showcase, safety valve installation, flexible conduit connections, and wall mounting. The steps are generally applicable to the Reliance 6 Gallon model.

### Electrolux 1.5 Gallon Tank Water Heater Installation

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This video illustrates the installation of a small point-of-use electric water heater. While a different brand and capacity, the general plumbing and electrical connection principles are relevant for understanding the setup of the Reliance 6 Gallon unit.

### Camplux ME100B Installation

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This video demonstrates the installation of a Camplux mini-tank water heater. It shows the process of connecting water lines and electrical components, offering visual guidance for similar compact water heater installations.

### Thermomate 18 Gallon Tank Preheater Installation

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This video details the installation of an 18-gallon tank as a preheater. While a larger capacity, the plumbing and electrical connection techniques shown are relevant for understanding the installation of the Reliance 6 Gallon water heater.

## OPERATING INSTRUCTIONS

Once properly installed and filled with water, operating your Reliance 6 Gallon water heater is straightforward.

### Temperature Control:

- The temperature selector is located under the front cover of the unit.
- Adjust the dial to your desired hot water temperature. A common setting is 125°F (52°C) for general household use.
- Allow sufficient time for the water to heat up after initial installation or temperature adjustment. The unit provides instant hot water at the tap once heated.

### Usage:

This compact water heater is ideal for point-of-use applications, such as under a kitchen sink or in a bathroom, where immediate hot water is desired without waiting for water to travel from a main water heater.

## MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your water heater.

## Annual Maintenance:

- **Drain Valve:** Periodically drain a small amount of water from the drain valve at the bottom of the tank to remove sediment buildup. This helps maintain efficiency and prevent corrosion.
- **Anode Rod:** The glass-lined tank includes an anode rod for corrosion protection. Inspect and replace the anode rod every 3-5 years, or more frequently in areas with hard water, to extend the life of the tank.
- **T&P Valve:** Test the T&P valve annually by lifting the lever. Water should discharge from the drain pipe. If no water discharges, or if the valve does not reseat properly, replace it immediately.
- **Insulation:** The unit features 1-inch foam insulation (16.00 R-value). Ensure the insulation remains intact for optimal energy efficiency.

## TROUBLESHOOTING

If you encounter issues with your water heater, refer to the following common problems and solutions:

- **No Hot Water:**

- Check the electrical breaker for the dedicated circuit.
- Ensure the temperature setting is not too low.
- Verify the unit is filled with water and air is purged.

- **Water Not Hot Enough:**

- Increase the temperature setting.
- Check for excessive hot water usage exceeding the unit's capacity.

- **Leaking:**

- Inspect all plumbing connections for tightness. Tighten if necessary, ensuring Teflon tape is properly applied.
- Check the T&P valve for drips; if it's constantly dripping, it may need replacement.
- If the tank itself is leaking, the unit may need to be replaced.

- **Rust-Colored Water:**

- This can indicate a failing anode rod or corrosion within the tank. Consider replacing the anode rod.
- Flush the tank to remove sediment.

For persistent issues, contact a qualified plumber or the manufacturer's support.

## SPECIFICATIONS

<b>Brand</b>	Reliance
<b>Model Number</b>	6-6-SOMS K
<b>Capacity</b>	6 Gallons
<b>Power Source</b>	Electric
<b>Voltage</b>	120 Volts
<b>Wattage</b>	3000 watts (1650 Watts Heat Output)
<b>Product Dimensions</b>	14.12"W x 14.12"H (Item Depth: 14.25 inches)
<b>Item Weight</b>	33.3 pounds
<b>Special Features</b>	Compact design, Side-mounted connections, Glass-lined tank with anode rod

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<b>Insulation</b>	1" foam insulation / 16.00 R-value
<b>Certification</b>	UL Listed

## WARRANTY

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The Reliance 6 Gallon Compact Electric Water Heater comes with a **6-year warranty** covering both the tank and parts. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact Reliance customer service.

## SUPPORT

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For further assistance, technical support, or to inquire about replacement parts, please refer to the contact information provided in your product's packaging or visit the official Reliance website. Always consult a qualified professional for complex installations or repairs.