

TFCFL LF-001A

TFCFL LF-001A Mini Tankless Electric Water Heater User Manual

Model: LF-001A | Brand: TFCFL

1. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Electrical Requirements:** The water heater requires a dedicated circuit with a circuit breaker larger than 32 amps. Ensure proper grounding.
- **Water First, Then Electricity:** Always ensure water flows through the unit before connecting it to electricity during installation.
- **Leakage Protection:** The unit features 0.1 second automatic power-off in case of leakage.
- **Overheating Protection:** Automatic power-off occurs if the unit overheats.
- **Water-Electricity Isolation:** Designed for safety with internal water-electricity isolation.
- **IPX4 Waterproof:** Provides protection against splashing water.
- **Intended Use:** This 3000W unit is designed for washing hands, dishes, or kitchen use. The outlet water temperature may not be sufficient for bathing.
- **Installation:** It is recommended to install the unit vertically to ensure long service life.

2. PRODUCT OVERVIEW

The TFCFL LF-001A is a compact, tankless electric water heater designed for instant hot water delivery. It features a digital display and multiple safety functions.

Key Features:

- Instant heating in approximately 3 seconds.
- Constant temperature maintenance.
- Digital display for temperature monitoring.
- Touch control and remote control options.
- Multiple safety protections: leakage, overheating, dry heating, water-electricity isolation, auto power-off

at inactive state.

Product View:



Image 2.1: The TFCFL LF-001A Mini Tankless Electric Water Heater shown installed discreetly under a kitchen sink, demonstrating its compact size and placement.



Image 2.2: A detailed view of the water heater with its dimensions labeled: 21cm (8.26") width, 15cm (5.9") height, and 5.5cm (2.2") depth.

3. SPECIFICATIONS

Specification	Value
Rated Voltage	110V
Rated Power	3000W
Current	25-32A
Color	Black
Heating Material	Aluminium
Water Temperature Range	68-126°F (20-52°C)
Start-Up Pressure	0.04-1.2Mpa
Waterproof Rate	IPX4
Control Method	Touch or Remote Control
Size (L x W x H)	Approx. 21 x 15 x 5.5cm (8.26 x 5.9 x 2.2")
Weight	1.2kg
Universal Water Pipe	1/2 Inch Diameter (Inflow or Outflow)

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your water heater. It is recommended that installation be performed by a qualified professional.

Installation Steps:

- 1. Prepare Mounting Location:** Drill into the wall at the desired location using an electric drill. Ensure the location is suitable for vertical mounting and has access to water lines and electrical supply.
- 2. Secure the Unit:** Fix the water heater securely to the wall using the provided screws and anchors.
- 3. Connect Water Lines:** Connect the hot water outlet and cold water inlet pipes to the unit. Ensure that cold water flows through the water heater before proceeding to the next step. The unit is compatible with 1/2 inch diameter universal water pipes.



Image 4.1: The top view of the water heater showing the 'WATER IN' (blue) and 'WATER OUT' (red) ports for plumbing connections.



Image 4.2: A close-up view of the 'WATER IN' port, indicating the connection point for the cold water supply.



Image 4.3: A close-up view of the 'WATER OUT' port, indicating the connection point for the hot water supply.

4. **Connect to Electricity:** After ensuring water is flowing through the unit, connect the water heater to the electrical supply.

Included Mounting Hardware:



Image 4.4: Two bags containing the necessary screws and wall anchors for mounting the water heater.

5. OPERATING INSTRUCTIONS

The TFCFL LF-001A water heater offers flexible control options for adjusting water temperature.

Temperature Adjustment:

- **Touch Control:** Use the 'UP' and 'DOWN' buttons on the unit's digital display to adjust the desired water temperature. The 'ON/OFF' button controls power.
- **Remote Control:** The unit can also be controlled wirelessly using the provided remote control. Use the 'HIGH' and 'LOW' buttons to adjust temperature and the 'ON/OFF' button for power.
- **Water Flow Adjustment:** The water temperature can also be freely adjusted by controlling the water flow rate. A lower flow rate generally results in warmer water, while a higher flow rate results in cooler water, within the unit's heating capacity.



Image 5.1: The white remote control for the instant water heater, featuring 'HIGH', 'LOW', and 'ON/OFF' buttons.

6. MAINTENANCE

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

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- **Check Connections:** Annually inspect water and electrical connections for any signs of leaks or wear. Tighten connections if necessary.
- **Descaling:** In areas with hard water, mineral deposits may accumulate over time. Consult a qualified plumber for professional descaling if you notice a decrease in performance.
- **Winterization:** If the unit is installed in an area prone to freezing temperatures, ensure it is properly drained and disconnected from power to prevent damage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your water heater.

- **No Hot Water / Insufficient Heat:**
 - Ensure the unit is powered on and the circuit breaker is not tripped.
 - Verify that water is flowing through the unit. The unit will not heat without water flow.
 - Check if the set temperature is appropriate. Adjust using touch controls or remote.
 - Reduce water flow rate to allow more time for heating.
 - Remember, this 3000W unit is designed for light use (hands, dishes) and may not provide sufficient heat for bathing, especially in colder climates or with high flow rates.
- **Unit Not Turning On:**
 - Check the electrical connection and circuit breaker.
 - Ensure there is adequate water pressure and flow.
 - If the unit has an automatic power-off due to inactivity or safety, try resetting it by cycling the power.
- **Leakage:**
 - Immediately disconnect power to the unit.
 - Check all water connections for tightness.
 - If leakage persists, contact a qualified plumber or customer support.
- **Digital Display Not Working:**
 - Ensure the unit has power.
 - If the unit is heating but the display is off, it might indicate a fault. Contact customer support.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact TFCFL customer service through the retailer where the product was purchased.

Please have your model number (LF-001A) and purchase date ready when contacting support.