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## TCFUNDY TCFD-KB0000027-LPG-GD

# TCFUNDY 18L Tankless Propane Gas Water Heater User Manual

Model: TCFD-KB0000027-LPG-GD

## 1. Introduction and Overview

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your TCFUNDY 18L Tankless Propane Gas Water Heater. This on-demand water heater is designed to provide a continuous supply of hot water for various applications, featuring a digital display, touch screen controls, and multiple safety mechanisms.






*Image 1: Front view of the TCFUNDY 18L Tankless Propane Gas Water Heater. The unit is gold-colored with a black digital display panel and includes a showerhead accessory.*

## 2. Safety Information

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

- **Ventilation:** This appliance requires proper ventilation. Ensure the room where the water heater is installed is adequately ventilated to prevent carbon monoxide accumulation. Never install in a bathroom or unventilated space.
- **Gas Supply:** Ensure the gas supply is correctly connected and free from leaks. Use only propane gas with this unit.
- **Electrical Connection:** The unit requires a 110V AC power supply for its digital display and anti-freeze function. Ensure the power supply is continuously connected, especially in cold weather, for the anti-freeze system to operate.
- **Water Pressure:** Operate within the specified water pressure range (Min. 2.9 PSI, Max. 116 PSI).
- **Overheating Protection:** The unit features automatic power-off and over-temperature protection.
- **Flame-out Protection:** Automatically shuts off gas supply if the flame extinguishes.
- **Air Flow Pressure Switch Protection:** Ensures safe operation by monitoring exhaust airflow.

**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Consult a qualified installer, service agency, or the gas supplier for assistance.**

## 3. Product Features

The TCFUNDY 18L Tankless Water Heater offers advanced features for reliable and efficient hot water delivery:

- **Compact Design:** Space-saving 18L tankless unit.
- **On-Demand Hot Water:** Delivers 4.75 gallons per minute (GPM) of continuous hot water with 111,000 BTU heat output.
- **Digital Display & Touch Screen:** Intuitive LCD screen for temperature display and control.
- **Thermostatic Control:** Maintains a steady water temperature within ±2°C, with high thermal efficiency up to 90%.
- **Energy Saving:** Self-modulating temperature technology heats water only when needed.
- **Anti-Freeze Protection:** Automatic heating device prevents freezing of the water tank.
- **Oxygen-Free Copper Heat Exchanger:** Ensures durability, anti-corrosion, and energy efficiency.




*Image 2: Diagram illustrating key features such as Overheat Protection, Flame Failure Protection, Dry Combustion Protection, 18L/min (5GPM) flow rate, Digital Display, and ISO Certification.*

## 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.

### 4.1. Components Included

- TCFUNDY 18L Tankless Water Heater Unit
- Horizontal Vent Pipe
- Showerhead Kit
- Installation Accessories

### 4.2. Mounting and Connections

The unit is designed for wall mounting. Ensure the mounting surface is sturdy and capable of supporting the unit's weight. Connect the water inlet, water output, gas inlet, and power supply as indicated on the unit.



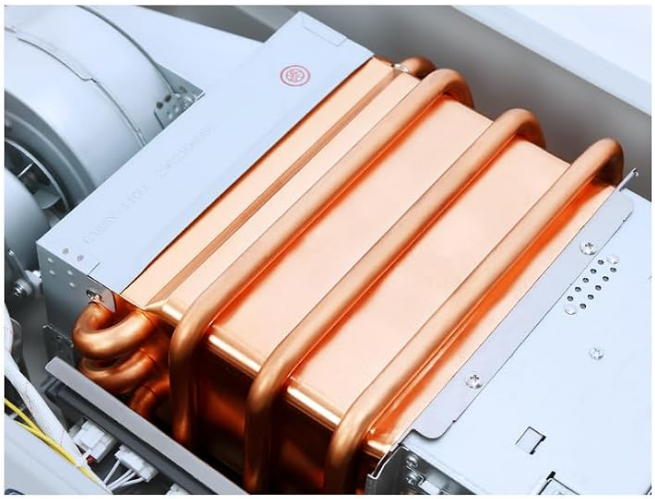










*Image 3: Bottom view of the water heater, detailing the connections for water output, gas inlet, power, and water inlet.*




*Image 4: Close-up of the water relief valve, which is used to discharge water and prevent frost damage.*

### 4.3. Venting

Install the horizontal vent pipe according to local codes and manufacturer guidelines. Ensure proper sealing and clearance. If using an extension vent pipe, limit to less than 3 bends and within 9.8 feet total length.




*Image 5: Diagram illustrating the forced exhaust fan system, showing how exhaust gases (CO) are safely vented outdoors, even when the venting pipe is sideways.*

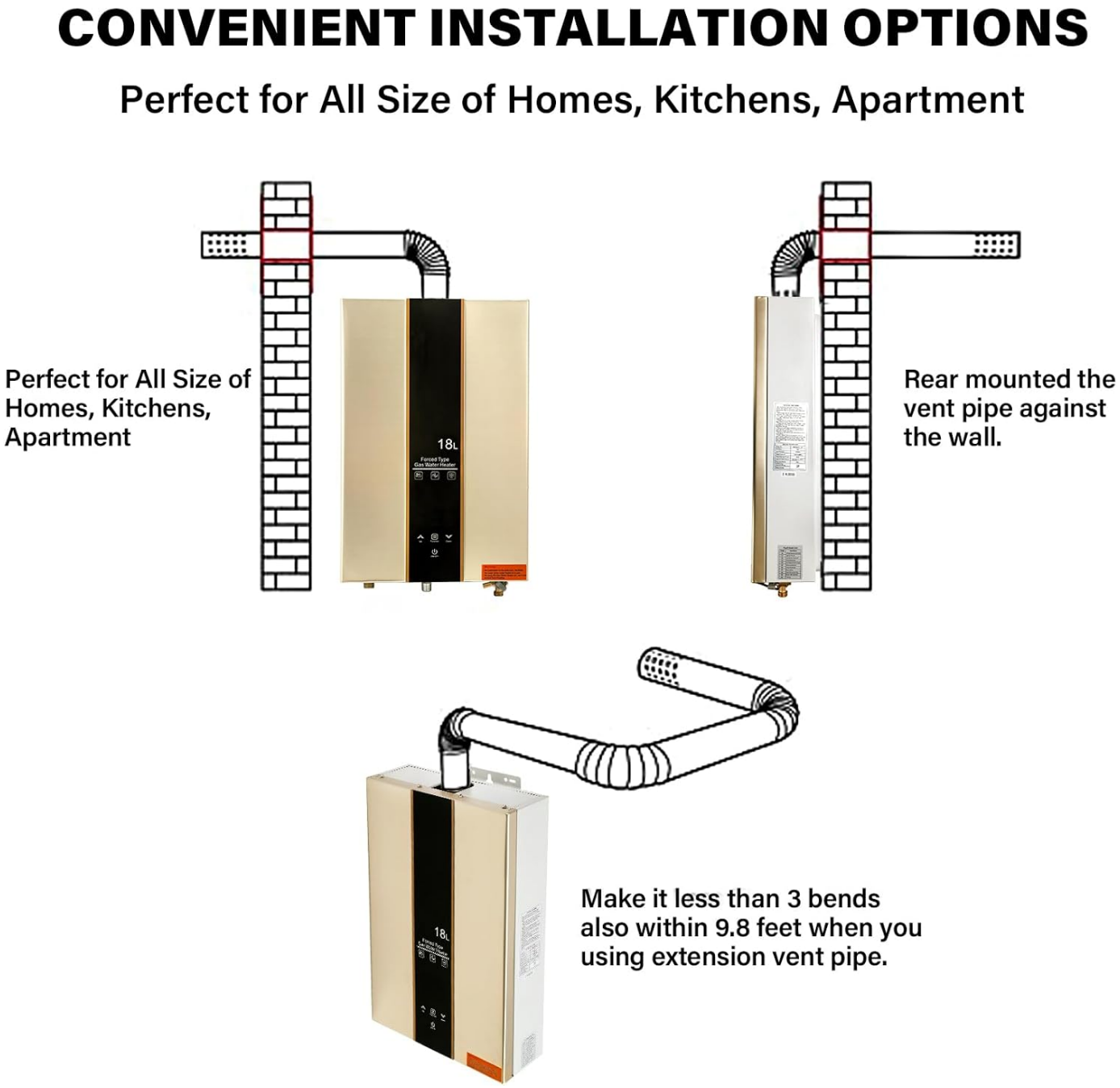



*Image 6: Diagram presenting convenient installation options, including front-mounted and rear-mounted vent pipe configurations, suitable for homes, kitchens, or apartments.*

## 5. Operating Instructions

The TCFUNDY water heater features a user-friendly digital display and touch screen for easy operation.

### 5.1. Control Panel Overview




| | |
|---|---|
| Rated Voltage: AC 110V / 60Hz | Rated Heat Load: 36kW |
| Hot Water Outlet Volume: 18L/min (4.75 GPM) | Gas Type: Propane Gas |
| LED Screen: Included | Thermostatic: Yes |
| Anti-Freeze Protection: Yes | Oxygen-Free Copper Water Tank: Yes |

*Image 7: Close-up of the digital display and touch screen control panel, showing temperature indicator, temperature up/down buttons, power on/off, function button, and menu. It also highlights Eco Mode, Common Mode, and Tub Mode.*

### 5.2. Basic Operation

1. **Power On/Off:** Press the **ON/OFF** button to turn the unit on or off.
2. **Temperature Adjustment:** Use the **Up** and **Down** arrows to set your desired water temperature. The digital display will show the current temperature.
3. **Mode Selection:** Press the **Function** button to cycle through the available modes:**Eco Mode**, **Common Mode**, and **Tub Mode**. Each mode is optimized for different usage scenarios.
4. **Water Flow:** The unit activates when water flow is detected (minimum 0.66 GPM). Hot water will be delivered instantly at the set temperature.




*Image 8: Graph illustrating the consistent hot water supply and minimal temperature fluctuation (within ±0.5°C) provided by the 111,000 BTU, 4.75 GPM water heater.*

## 6. Maintenance

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

### 6.1. Anti-Freeze System

The TCFUNDY water heater is equipped with an intelligent anti-freeze heating device. This system automatically activates to prevent the water tank from freezing in cold conditions. For this feature to function, the power supply must be continuously connected to the unit.




*Image 9: Diagram explaining the Intelligent Anti-Freeze System, highlighting its ceramic encapsulated heating resistance, ultra-high insulation, and automatic heating activation at 5±2°C and deactivation at 15±5°C to prevent freezing and cracking of the copper pipe.*

### 6.2. General Care

- Periodically inspect the unit for any visible damage or leaks.
- Ensure the vent pipe is clear of obstructions.
- Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.

## 7. Troubleshooting

If you encounter issues with your water heater, refer to the following common troubleshooting steps:

- **No Hot Water:** Check if the unit is powered on, the gas supply is open, and water pressure is within the operating range. Ensure the minimum activation flow rate (0.66 GPM) is met.
- **Inconsistent Temperature:** Verify the set temperature on the digital display. Ensure adequate water flow and gas supply.
- **Error Codes:** If an error code appears on the display, consult the full product manual (if available) or contact

customer support for specific code interpretations.

- **Unit Not Turning On:** Check the electrical connection and ensure the power outlet is functional. Verify the gas supply.
- **Water Leakage:** Immediately shut off water and gas supply. Inspect all connections for tightness. If the leak persists, contact a qualified technician.

For issues not resolved by these steps, please contact TCFUNDY customer support.

## 8. Specifications

| Specification | Value |
|---|---|
| Brand | TCFUNDY |
| Model Number | TCFD-KB0000027-LPG-GD |
| Product Dimensions | 15"W x 22.6"H |
| Color | Gold |
| Rated Voltage | 110 Volts (AC) |
| Wattage | 36 watts |
| Maximum Flow Rate | 4.75 Gallons Per Minute (18L/min) |
| Heat Output | 111,000 British Thermal Units |
| Maximum Temperature | 392 Degrees Fahrenheit |
| Efficiency | High / Energy-Saving |
| Minimum Water Pressure | 2.9 PSI |
| Maximum Operating Pressure | 116 Pound per Square Inch |
| Mounting Type | Wall |
| Gas Type | Propane Gas |
| Special Features | Anti-Freezing Protection, Overheat Protection |

## 9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact TCFUNDY customer service directly. Keep your purchase receipt as proof of purchase.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**

## Answered questions about this manual

**My TCFUNDY 18L Tankless Water Heater has stopped heating, shows a temperature of 65°C, and the up arrow is unresponsive; how can I resolve this?**

Based on the symptoms described for your TCFUNDY 18L Tankless Water Heater, the unit may be stuck in a safety lockout or experiencing a sensor failure. A reading of 65°C (149°F) is quite high...

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