Tornado TEEE-30DS

TORNADO TEEE-30DS Electric Water Heater User Manual

Model: TEEE-30DS | Capacity: 30 Liters

Introduction

Thank you for choosing the TORNADO TEEE-30DS Electric Water Heater. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new water heater. Please read these instructions thoroughly before installation and use, and retain them for future reference.

Important Safety Instructions

Failure to follow these safety instructions could result in property damage, serious injury, or death. Always consult a qualified professional for installation and repairs.

- **Electrical Safety:** Ensure the water heater is connected to a properly grounded electrical outlet with the correct voltage (1500 watts). Do not use extension cords. Disconnect power before any maintenance or service.
- **Water Pressure:** The maximum operating pressure is 8 bars. Do not exceed this pressure. Install a pressure relief valve if local codes require it.
- **Temperature Settings:** Hot water can cause severe burns. Set the thermostat to a safe temperature to prevent scalding, especially in households with children or elderly individuals.
- **Installation:** Installation must be performed by a qualified technician in accordance with all local codes and regulations. Ensure proper ventilation and drainage.
- **Maintenance:** Regular maintenance is crucial for safe and efficient operation. Do not attempt repairs beyond the scope of this manual. Contact authorized service personnel.

Product Overview

The TORNADO TEEE-30DS is a 30-liter electric water heater designed for indoor installation. It features an enamel-coated inner tank for corrosion resistance and an LED lamp indicator for operational status.

Figure 1: Front view of the TORNADO TEEE-30DS Electric Water Heater. This image shows the compact design suitable for indoor installation, with the control panel and LED indicator visible.

Key Components:

- **Inner Tank:** 30-liter capacity, enamel-coated for durability and corrosion resistance.
- **Heating Element:** 1500-watt electric heating element.
- **Thermostat:** Controls water temperature.
- **LED Lamp:** Indicates heating status.
- **Temperature/Pressure Relief Valve (TPR Valve):** Safety device (*Note: May be supplied separately or integrated, check local codes*).
- **Inlet/Outlet Pipes:** Connections for cold water supply and hot water output.

Setup and Installation

Installation should only be performed by a qualified professional. Ensure all local plumbing and electrical codes are met.

1. Choosing a Location:

- Install indoors, in a dry area, protected from freezing temperatures.
- Ensure the wall or mounting surface can support the full weight of the water heater (approximately 38 kg when full).
- Allow adequate clearance for maintenance and service.

2. Mounting the Water Heater:

1. Mark the mounting points on the wall according to the provided template or dimensions.
2. Securely fasten the mounting bracket(s) to the wall using appropriate hardware for the wall type.
3. Carefully lift and hang the water heater onto the mounted bracket(s). Ensure it is level and secure.

3. Plumbing Connections:

1. Connect the cold water supply line to the inlet pipe (usually marked blue or with a cold water symbol).
2. Connect the hot water output line to the outlet pipe (usually marked red or with a hot water symbol).
3. Install a Temperature and Pressure Relief (TPR) valve according to local codes. Ensure the discharge pipe from the TPR valve is directed downwards and terminates safely.
4. Use appropriate sealants and wrenches to ensure all connections are watertight.

4. Filling the Tank:

1. Before connecting electrical power, open a hot water faucet in your home to allow air to escape.
2. Open the cold water supply valve to the water heater.
3. Allow the tank to fill completely until water flows steadily from the hot water faucet. Close the faucet.
4. Check all plumbing connections for leaks.

5. Electrical Connection:

- Ensure the main power supply is OFF at the circuit breaker.
- Connect the water heater to a dedicated, grounded electrical circuit as specified in the product's electrical requirements (1500W).
- Verify all electrical connections are secure and comply with local electrical codes.

Operating Instructions

1. Initial Startup:

1. Ensure the tank is completely filled with water (refer to "Filling the Tank" in Setup).
2. Turn on the electrical power supply to the water heater at the circuit breaker.
3. The LED lamp will illuminate, indicating the unit is powered on and beginning to heat water.

2. Temperature Adjustment:

- The TEEE-30DS model features a digital display and/or control knob for temperature adjustment. Refer to the specific controls on your unit.
- Adjust the temperature to your desired setting. A common safe temperature range is 49-54°C (120-130°F) to balance comfort and safety.
- Allow sufficient time for the water to heat up, especially during initial use or after a complete drain.

3. LED Lamp Indicator:

- The LED lamp indicates the operational status. Typically, it will be lit when the heating element is active and heating water. It may turn off or change color once the set temperature is reached.
- Consult the specific markings on your unit for detailed LED indicator behavior.

4. Powering Off:

- To turn off the water heater, switch off the power supply at the circuit breaker.
- For extended periods of inactivity (e.g., vacations), it is recommended to turn off the water heater and drain the tank to prevent stagnant water and potential damage.

Maintenance

Regular maintenance ensures optimal performance, energy efficiency, and extends the lifespan of your water heater. Always disconnect power before performing any maintenance.

1. Draining the Tank (Annually):

1. Turn off the power supply to the water heater at the circuit breaker.
2. Close the cold water supply valve to the water heater.
3. Open a hot water faucet in your home to relieve pressure and allow air into the tank.
4. Connect a hose to the drain valve at the bottom of the water heater and direct it to a suitable drain.
5. Open the drain valve and allow the tank to empty completely. This helps remove sediment buildup.
6. Once drained, close the drain valve, remove the hose, and refill the tank as described in the "Setup" section before restoring power.

2. Inspecting the TPR Valve (Annually):

- Carefully lift the lever on the Temperature and Pressure Relief (TPR) valve to ensure it operates freely and discharges water.
- Allow a small amount of water to flow for a few seconds, then release the lever. If water continues to flow, the valve may need replacement.
- *Caution:* Water discharged will be hot.

3. Anode Rod Inspection/Replacement (Every 3-5 Years):

- The anode rod protects the enamel tank from corrosion. It slowly corrodes over time.
- Consult a qualified technician to inspect and replace the anode rod as needed. This typically involves draining the tank and removing the rod from the top of the heater.

4. Exterior Cleaning:

- Wipe the exterior of the water heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.

Troubleshooting

Before contacting service, review these common issues and solutions.

Problem	Possible Cause	Solution
No hot water or insufficient hot water	• No power to unit • Thermostat set too low • Heating element failure • Tank not full	• Check circuit breaker. • Adjust thermostat to a higher setting. • Contact qualified technician for replacement. • Ensure tank is filled before powering on.

Problem	Possible Cause	Solution
Water is too hot	Thermostat set too high	Lower the thermostat setting.
Leaking from TPR valve	• Excessive pressure • Faulty TPR valve	• Check water supply pressure. • Contact qualified technician for replacement.
Unusual noises (e.g., popping, rumbling)	Sediment buildup in tank	Drain and flush the tank (refer to Maintenance section).

If the problem persists after attempting these solutions, please contact authorized service personnel.

Specifications

Feature	Detail
Model Number	TEEE-30DS
Brand	Tornado
Capacity	30 Liters
Power Source	Corded Electric
Wattage	1500 watts
Voltage	*(Not specified in input, assume standard for region)*
Maximum Operating Pressure	8 Bars
Inner Tank Material	Enamel coated
Indicator	LED lamp
Installation Style	Indoor Installation
Item Weight	8 Kilograms
Product Dimensions (L x W x H)	65 x 45 x 45 cm

Warranty and Support

The TORNADO TEEE-30DS Electric Water Heater comes with a**5-year comprehensive free warranty**. This warranty covers manufacturing defects and ensures reliable operation under normal use conditions.
For warranty claims, technical support, or service inquiries, please contact Tornado customer service. Keep your purchase receipt and product model number (TEEE-30DS) readily available when contacting support.
Note: Unauthorized repairs or modifications may void your warranty. Always use authorized service personnel for any repairs.