Bosch ES4

Bosch ES4 4-Gallon Point-of-Use Mini-Tank Water Heater

Model: ES4 (Tronic 3000T Series)

1. Introduction

The Bosch ES4 Point-of-Use Electric Mini-Tank Water Heater is designed to provide hot water quickly and efficiently at the point of use. This 4-gallon unit can be installed directly at a sink or in-line with a larger hot water source to reduce wait times for hot water. Its compact design allows for flexible installation options, including wall-mounting, floor-mounting, or placement on a shelf.

Key Features:

- Provides hot water quickly at point-of-use.
- Units can be wall or floor mounted.
- Includes a temperature/pressure relief valve for safety.
- Glass-lined tank for extended service life.
- 120VAC plug-in connection (1440 Watts).

2. Safety Information

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

General Safety Warnings:

- This appliance must be installed by a qualified professional in accordance with all local codes and ordinances.
- Ensure the power supply is disconnected before performing any maintenance or service.
- Do not operate the water heater if it is damaged or malfunctioning.
- Do not block or tamper with the temperature/pressure relief valve.
- Keep flammable materials away from the water heater.
- This appliance is for indoor installation only.

Electrical Safety:

- Connect the unit to a properly grounded 120VAC outlet.
- Do not use extension cords with this appliance.
- Ensure the electrical circuit can handle the 1440 Watts (12 Amps) required by the unit.

3. Package Contents

Verify that all components are present before beginning installation:

- Bosch ES4 4-Gallon Point-of-Use Mini-Tank Water Heater
- Mounting bracket (for wall installation)
- Temperature/Pressure Relief Valve (T&P Valve)
- Instruction Manual

4. Specifications

Specification	Value
Brand	Bosch
Model Number	Tronic 3000T 15L (ES4)
Capacity	4 Gallons
Power Source	Corded Electric
Wattage	1440 Watts
Voltage	120 Volts
Mount Type	Wall, Floor, Shelf
Material Type	Glass-lined tank
Item Weight	7.8 Kilograms (approx. 17.2 lbs)
Color	White, Grey

5. 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 plumber or technician.

Mounting Options:

The Bosch ES4 can be mounted on a wall, placed on the floor, or on a sturdy shelf. A mounting bracket is included for wall installation.

- **Wall Mounting:** Secure the provided mounting bracket to a wall stud or use appropriate wall anchors. Ensure the wall can support the weight of the unit when full (approximately 50 lbs for the 4-gallon model).
- **Floor/Shelf Mounting:** Place the unit on a level, stable surface capable of supporting its full weight.

Plumbing Connections:

The unit is designed to be tapped into the cold water line. It can be installed directly at the sink or in-line with an existing hot water supply.

- Connect the cold water supply to the inlet port (typically blue).
- Connect the hot water outlet port (typically red) to the fixture requiring hot water.
- Install the temperature/pressure relief valve (T&P valve) into the designated opening on the top of the unit. Ensure the discharge pipe from the T&P valve is routed to an open drain.
- Use appropriate plumbing fittings and sealants to prevent leaks.

Electrical Connection:

The Bosch ES4 operates on 120 Volts and requires a standard grounded electrical outlet.

- Plug the unit's power cord into a dedicated 120VAC, 15-amp (minimum) grounded outlet.
- Do not use adapters or extension cords.



Front view of the Bosch ES4 4-Gallon Point-of-Use Mini-Tank Water Heater, showing its compact design and control dial.

6. Operation

Once installed and plumbed, operating your Bosch ES4 water heater is straightforward.

Initial Startup:

1. Ensure all plumbing connections are secure and leak-free.
2. Open a hot water faucet at the fixture connected to the mini-tank.

3. Allow water to flow until all air is purged from the tank and a steady stream of water comes out. Close the faucet.
4. Plug the water heater into the grounded electrical outlet. The indicator light will illuminate, indicating the unit is heating.

Temperature Control:

The unit features an adjustable thermostat dial on the front. Rotate the dial to set your desired water temperature. The range typically goes from 'Min' to 'Max'.

- **Min:** Lower temperature setting.
- **Max:** Highest temperature setting.
- Adjust the dial gradually and test the water temperature at the faucet until the desired comfort level is achieved.

7. Maintenance

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

Annual Maintenance:

- **Drain the Tank:** To remove sediment buildup, drain the tank annually. Disconnect power, close the cold water inlet valve, open a hot water faucet, and open the drain valve at the bottom of the unit.
- **Inspect T&P Valve:** Manually operate the temperature/pressure relief valve by lifting the lever. Ensure water flows freely from the discharge pipe. If it does not, the valve may need replacement.
- **Check for Leaks:** Periodically inspect all plumbing connections for any signs of leaks. Tighten connections as needed.
- **Anode Rod Inspection:** While the tank is glass-lined for corrosion resistance, inspecting the anode rod every 2-3 years is recommended, especially in areas with hard water. Replace if significantly depleted.

8. Troubleshooting

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

Problem	Possible Cause	Solution
No hot water	No power; thermostat set too low; tripped breaker; heating element failure.	Check power connection and outlet; adjust thermostat; reset circuit breaker; contact service technician.
Water not hot enough	Thermostat set too low; cold water mixing; excessive hot water demand.	Increase thermostat setting; ensure proper plumbing to prevent cold water bypass; allow time for recovery.
Water leaking from unit	Loose plumbing connections; T&P valve discharge; tank leak.	Tighten connections; check T&P valve for proper operation; if tank leak, unit may need replacement.
Noisy operation	Sediment buildup in tank.	Drain and flush the tank to remove sediment.

9. Warranty and Support

Bosch provides a limited warranty for its water heaters. Please refer to the warranty card included with your product for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Bosch customer support. Contact information can typically be found on the Bosch website or on the product packaging.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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