

ALTech 3100452

ALTech 3100452 Electric Water Heater (15L) Instruction Manual

Model: 3100452

1. INTRODUCTION

Thank you for choosing the ALTech 3100452 Electric Water Heater. This compact 15-liter electric water heater is designed for under-sink installation, providing efficient hot water for domestic use. Please read this manual carefully before installation and operation to ensure safe and correct use of the appliance.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.

- This appliance must be installed by a qualified technician in accordance with local regulations.
- Ensure the power supply voltage matches the rating label on the appliance.
- Do not operate the water heater if the power cord or plug is damaged.
- Do not block the pressure relief valve.
- Always disconnect the power supply before performing any maintenance or repairs.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The water heater must be properly grounded.
- Do not install the water heater in an area where it may be exposed to freezing temperatures.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged:

- ALTech 3100452 Electric Water Heater (15L)
- Mounting bracket (if separate)
- Pressure relief valve

- Instruction Manual (this document)
- Dielectric unions (if included)

4. SETUP AND INSTALLATION

This water heater is designed for under-sink installation. Ensure adequate space and proper ventilation.

4.1. Choosing a Location

Select a location directly under the sink, ensuring easy access for maintenance and connections. The area must be protected from freezing temperatures and have a suitable drain nearby for the pressure relief valve discharge.

4.2. Mounting the Water Heater

Securely mount the water heater to a sturdy surface using the provided mounting bracket and hardware. Ensure the unit is level.



Figure 1: Example of ALTech 3100452 Electric Water Heater installation under a sink. The compact design allows for discreet placement.

4.3. Plumbing Connections

Connect the cold water inlet to the water heater's inlet port (usually marked blue or with a 'C'). Connect the hot water outlet to the hot water supply line (usually marked red or with an 'H'). Install the pressure relief valve on the designated port and route its discharge line to an open drain, ensuring it is not blocked or capped.



Figure 2: Detailed diagram illustrating the plumbing connections for the ALTech 3100452 water heater, including cold water inlet, hot water outlet, and pressure relief valve.

4.4. Filling the Water Heater

Before connecting power, open a hot water faucet in your sink to allow air to escape. Then, slowly open the cold water supply valve to the water heater. Once water flows steadily from the hot water faucet, the tank is full. Close the hot water faucet.

4.5. Electrical Connections

Connect the water heater to a dedicated, properly grounded electrical outlet. Ensure the circuit breaker is rated appropriately for the appliance's wattage (1200W). Consult a qualified electrician if you are unsure about electrical connections.

5. OPERATING INSTRUCTIONS

5.1. Powering On

After ensuring the tank is full of water and all connections are secure, switch on the power supply to the water heater at the circuit breaker or wall switch. The indicator light (if present) will illuminate, signifying that the unit is heating.

5.2. Temperature Adjustment

The ALTech 3100452 typically features a thermostat control knob, usually located on the front or bottom of the unit. Rotate the knob to adjust the desired water temperature. For energy efficiency and safety, it is recommended to set the temperature between 50°C and 60°C (120°F and 140°F).

5.3. Powering Off

To turn off the water heater, switch off the power supply at the circuit breaker or wall switch. If the unit will be unused for an extended period, it is recommended to also turn off the cold water supply valve.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your water heater. Always disconnect power before performing any maintenance.

6.1. Draining the Water Heater

To drain the tank for maintenance or if there is a risk of freezing:

1. Turn off the power supply to the water heater.
2. Turn off the cold water supply valve to the water heater.
3. Open a hot water faucet in your sink 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 route it to a suitable drain.
5. Open the drain valve and allow the tank to empty completely.
6. Once drained, close the drain valve and hot water faucet.

6.2. Pressure Relief Valve Test

Test the pressure relief valve annually by lifting the lever. Water should discharge from the drain line. If no water discharges, or if the valve leaks continuously, it may need replacement. Consult a qualified technician.

6.3. Anode Rod Inspection/Replacement

The anode rod protects the tank from corrosion. It should be inspected every 1-3 years and replaced if significantly depleted. This procedure typically requires draining the tank and should be performed by a qualified technician.

6.4. Descaling

In areas with hard water, mineral deposits (scale) can build up inside the tank and on the heating element, reducing efficiency. Descaling may be required periodically. This is a complex procedure best handled by a professional.

7. TROUBLESHOOTING

Before calling for service, check the following common issues:

| Problem | Possible Cause | Solution |
|------------------------|--|--|
| No hot water | No power; thermostat set too low; heating element failure. | Check circuit breaker/power switch; adjust thermostat; contact technician. |
| Insufficient hot water | Thermostat set too low; heavy hot water usage; sediment buildup. | Increase thermostat setting; allow recovery time; consider descaling. |
| Water too hot | Thermostat set too high. | Lower thermostat setting. |
| Leaking from tank | Loose connections; faulty pressure relief valve; tank corrosion. | Tighten connections; replace PRV; contact technician for tank inspection. |
| Unusual noises | Sediment buildup in tank. | Drain and flush the tank; consider descaling. |

8. SPECIFICATIONS

| Feature | Detail |
|------------------------|----------------------------------|
| Model Number | 3100452 |
| Brand | ALTech |
| Capacity | 15 Liters |
| Power Output (Wattage) | 1200 Watts |
| Power Source | Electric Cord |
| Product Weight | 7.1 kg (7.1 Kilograms) |
| Installation Style | Indoor Installation (Under-sink) |
| Energy Class | B (as per product description) |

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your purchase or contact ALTech customer service. Keep your proof of purchase for warranty claims.



© 2023 ALTech. All rights reserved.
This manual is subject to change without notice.