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Altech 148111

Altech Heating Element + Anode User Manual

Model: 148111 (Part No. 60002197*)

1. PRODUCT OVERVIEW

This document provides essential information for the installation, operation, and maintenance of the Altech Heating Element with Anode, part number 60002197*. This component is designed for use in various water heaters, including models from Chaffoteaux&maury, Regent, Ariston, Fleck, and Lemercier. It is a crucial part for ensuring the efficient heating of water and protecting the water heater tank from corrosion.



Figure 1: Altech Heating Element with Anode, top view showing the base plate and connections. This image displays the Altech heating element and anode assembly from a top-down perspective, highlighting the circular base plate with multiple mounting holes and the central pipe connection. The heating element and anode rods extend from the base.



Figure 2: Altech Heating Element with Anode, side view showing the full length of the rods. This image shows the Altech heating element and anode assembly from a side angle, illustrating the full length of the black heating element tube and the silver anode rod running parallel to it. The base plate is visible at the top.

2. SPECIFICATIONS

Attribute	Value
Manufacturer	Altech
Product Dimensions (L x W x H)	21 x 17 x 14 cm
Weight	10 grams
Reference (Model Number)	148111
Part Number	60002197*
Compatible Appliances	Chaffoteaux&maury, Regent, Ariston, Fleck, Lemercier water heaters (various models including 3000167, 3010292, 3060321, etc.)

3. INSTALLATION AND SETUP

Installation of a heating element and anode in a water heater requires technical expertise and should ideally be performed by a qualified professional. Incorrect installation can lead to water leaks, electrical hazards, or damage to the water heater.

General Installation Guidelines:

1. **Safety First:** Always disconnect power to the water heater at the circuit breaker before beginning any work. Turn off the water supply to the water heater.
2. **Drain the Tank:** Partially or fully drain the water heater tank, depending on the location of the heating element and anode.
3. **Access the Component:** Locate the existing heating element and anode. These are typically found on the side or top of the water heater tank.
4. **Remove Old Component:** Carefully disconnect any wiring from the heating element. Use an appropriate wrench to unscrew and remove the old heating element and anode. Be prepared for residual water.
5. **Clean Opening:** Clean the opening thoroughly to ensure a good seal for the new component.
6. **Install New Component:** Insert the new Altech heating element and anode. Ensure the gasket is properly seated. Tighten the component securely, but do not overtighten.
7. **Reconnect Wiring:** Reconnect the electrical wiring to the new heating element according to the water heater's wiring diagram.
8. **Refill and Test:** Close the drain valve, open the water supply, and allow the tank to refill completely. Open a hot water faucet to purge air from the system. Once the tank is full and air is purged, restore power to the water heater.
9. **Check for Leaks:** Monitor for any leaks around the newly installed component.

Note: Refer to your specific water heater's service manual for detailed, model-specific installation instructions.

4. OPERATING PRINCIPLES

The Altech Heating Element is responsible for converting electrical energy into heat, which then warms the water inside the water heater tank. The anode, often referred to as a sacrificial anode, is a critical component for protecting the steel tank from corrosion. It is typically made of magnesium, aluminum, or zinc and corrodes instead of the tank lining, extending the lifespan of the water heater.

Once installed, the heating element operates automatically, controlled by the water heater's thermostat to maintain the desired water temperature. The anode continuously works to prevent rust and corrosion as long as it is intact and properly installed.

5. MAINTENANCE

Regular maintenance of your water heater, including inspection of the heating element and anode, can significantly extend its lifespan and ensure efficient operation.

Key Maintenance Points:

- **Anode Rod Inspection:** The anode rod should be inspected every 3-5 years, or more frequently in areas with hard water. A depleted anode rod will appear thin or completely corroded. Replace it if it's less than half its original diameter or heavily encrusted.
- **Heating Element Inspection:** While less prone to wear than the anode, the heating element can accumulate mineral deposits (scale) over time, reducing efficiency. If accessible during anode inspection, check for excessive scaling. Descaling may be required.
- **Tank Flushing:** Periodically flush your water heater tank to remove sediment buildup, which can cover the heating element and reduce efficiency.
- **Professional Check-up:** Consider an annual professional inspection of your water heater system.

Warning: Always disconnect power and water supply before performing any maintenance.

6. TROUBLESHOOTING

If you experience issues with your water heater after replacing the heating element and anode, consider the following common

problems and solutions:

- **No Hot Water or Insufficient Hot Water:**
 - Check if the circuit breaker for the water heater is tripped.
 - Ensure the thermostat is set correctly.
 - Verify electrical connections to the heating element are secure.
 - The heating element itself might be faulty (though new, defects can occur). Test with a multimeter if comfortable, or consult a professional.
- **Water Leakage Around the Element:**
 - Ensure the heating element is tightened sufficiently.
 - Check if the gasket (seal) is properly seated and not damaged.
 - The tank itself might have a crack, which is a more serious issue requiring professional assessment.
- **Strange Noises from Water Heater:**
 - Popping or rumbling noises often indicate sediment buildup at the bottom of the tank, which can affect heating element performance. Flushing the tank may resolve this.
- **Smelly Hot Water (Sulfur/Rotten Egg Smell):**
 - This is often caused by a reaction between the magnesium anode rod and sulfates in the water, producing hydrogen sulfide gas. Consider replacing the magnesium anode with an aluminum/zinc anode or a powered anode rod if the issue persists.

Important: For complex issues or if you are unsure, always consult a certified plumber or electrician. Do not attempt repairs beyond your skill level.

7. WARRANTY AND SUPPORT

All items sold benefit from the legal guarantee of conformity and the guarantee against hidden defects. This product is manufactured by Altech.

For technical support, compatibility questions, or warranty claims, please contact your retailer or the manufacturer directly. When contacting support, please have your product model number (148111) and part number (60002197*) ready.

For more information on Altech products, you may visit the official Altech website or consult your local distributor.

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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.

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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