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› [Vaillant](#) /

› [Vaillant Atmomag Mini 11-4/1 XI ERP Low NOx Natural Gas Water Heater User Manual](#)

Vaillant 10022570

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Model: 10022570

1. INTRODUCTION

The Vaillant Atmomag Mini 11-4/1 XI ERP Low NOx is an 11-liter natural gas water heater designed for efficient and reliable hot water supply. This natural draft water heater features electronic ignition powered by batteries, ensuring quick starts. Its ionization flame detection system enhances operational safety, while the Opti Mod system allows for easy water temperature adjustment to suit seasonal variations.

Key Features:

- Natural gas power supply, 11-liter capacity
- Low NOx emissions for environmental compliance
- Simplified management and operation
- Compact dimensions for versatile installation
- Designed for indoor installation

2. SAFETY INFORMATION

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

- **Professional Installation:** This appliance must be installed by a qualified and certified technician in accordance with all local and national regulations.
- **Ventilation:** Ensure adequate ventilation in the installation area. Do not install in confined spaces with low ventilation, such as bathrooms, to prevent carbon monoxide accumulation.
- **Gas Leaks:** In case of a gas leak, immediately shut off the main gas supply, open windows and doors, and do not operate any electrical switches or appliances. Contact a qualified technician.
- **Water Pressure:** Ensure the water pressure is within the recommended operating range for the appliance.

- **Maintenance:** Regular maintenance by a qualified technician is essential for safe and efficient operation.
- **Children:** Keep children away from the appliance and its controls.

3. PRODUCT OVERVIEW

The Atmomag Mini water heater is designed for ease of use and efficiency. It features a robust casing, intuitive controls, and clearly marked connection points for gas and water.

Components:

- **Gas Regulator:** Knob to adjust gas flow and flame intensity.
- **Water Regulator:** Knob to adjust water flow and temperature.
- **Digital Display:** Shows the current water temperature.
- **Battery Compartment:** Houses the D-type batteries for electronic ignition.
- **Gas Inlet:** Connection point for the natural gas supply.
- **Cold Water Inlet:** Connection point for cold water supply.
- **Hot Water Outlet:** Connection point for hot water delivery.



Figure 1: Front view of the Vaillant Atmomag Mini water heater with controls and connections.

4. SPECIFICATIONS

Specification	Value
Brand	Vaillant
Model Number	10022570
Capacity	11 Liters
Power Source	Natural Gas
Product Dimensions (L x H)	371 x 75H cm
Special Features	Rapid ignition and seasonal temperature adjustment, low NOx emissions
Standby Mode Shutdown	A
Mounting Type	Wall-mounted
Color	White
Material Type	Polyester
Country of Origin	Germany

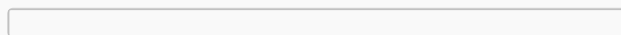


Figure 2: Technical data and dimensional diagram of the water heater.

5. SETUP & INSTALLATION

Installation of the Vaillant Atmomag Mini water heater should only be performed by a qualified professional. The following steps provide a general overview.

5.1 Unpacking and Inspection

1. Carefully remove the water heater from its packaging.
2. Inspect the appliance for any signs of damage during transit.
3. Verify that all accessories listed in the packing list are present.

5.2 Mounting the Water Heater

Mount the water heater securely on a suitable wall, ensuring it is level and in a well-ventilated area, away from flammable materials.

5.3 Connecting Water and Gas Lines

Ensure all connections are tight and leak-free. Use appropriate sealing materials as required by local codes.

- **Cold Water Inlet:** Connect the cold water supply line to the designated inlet. Ensure a rubber washer is used to prevent leaks.
- **Hot Water Outlet:** Connect the hot water delivery line to the designated outlet. Ensure a rubber washer is used.
- **Gas Inlet:** Connect the natural gas supply line to the gas inlet. A pressure reducer with a pressure of 2800 Pa is required. Do not use a pressure boosting valve. Ensure a rubber washer is used and connections are securely tightened.

5.4 Battery Installation

The water heater requires two D-type 1.5V batteries for electronic ignition (not included).

1. Open the battery compartment cover.
2. Insert the batteries, ensuring correct positive (+) and negative (-) polarity.
3. Close the battery compartment cover securely.

5.5 Installation Video Guide

Video 1: General installation and usage guide for a gas water heater, covering unpacking, connections, battery installation, and initial operation. (Source: CO-Z)

6. OPERATING INSTRUCTIONS

Once installed and all connections are secure, follow these steps to operate your water heater:

1. **Turn on Gas Supply:** Open the main gas valve to the water heater.
2. **Turn on Power:** Flip the power switch on the water heater to the 'ON' position.
3. **Open Water Faucet:** Open a hot water faucet in your home. The water heater should automatically ignite, and the digital display will show the water temperature.
4. **Adjust Temperature:** Use the 'Water Regulator' knob to adjust the desired water temperature. Turn towards 'MAX' for hotter water and 'MIN' for cooler water.
5. **Adjust Gas Flow:** Use the 'Gas Regulator' knob to adjust the flame intensity, which also affects the water

temperature. Turn towards 'MAX' for higher flame and 'MIN' for lower flame.

Video 2: Demonstration of the gas water heater's flame during operation. (Source: BreeRainz)

7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your water heater. It is recommended to have the appliance inspected annually by a qualified technician.

7.1 General Cleaning

- Wipe the exterior of the water heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the ventilation openings are clear of dust and debris.

7.2 Winterization (Preventing Freezing)

To prevent damage from freezing during cold weather or extended periods of non-use, it is crucial to drain the water from the unit.

1. Turn off the gas supply to the water heater.
2. Turn off the cold water supply to the water heater.
3. Open a hot water faucet in your home to relieve pressure.
4. Locate the water drain valve on the water heater (usually at the bottom) and open it to drain all water from the unit.
5. Once drained, close the drain valve and the hot water faucet.

8. TROUBLESHOOTING

If your water heater is not functioning correctly, refer to the following common issues and solutions. For complex problems, contact a qualified technician.

8.1 No Ignition or Weak Ignition Sound

- **Check Batteries:** Ensure the D-type batteries are correctly installed with the right polarity and are not depleted. Replace with new batteries if necessary.
- **Gas Supply:** Verify that the main gas valve is open and there is sufficient gas supply.
- **Water Flow:** Ensure adequate water flow. If water pressure is too low, the unit may not ignite.

8.2 Low Water Pressure Issues

If the water heater does not ignite or the display remains off due to low water pressure:

- Adjust the 'Water Regulator' knob completely to the right (maximum water pressure setting). This should allow the display to light up and ignition to occur.
- If low water pressure is a persistent issue, consider installing a booster pump at the water inlet.

8.3 Ignition Occurs but Shuts Off After 3 Seconds

This often indicates an issue with the ignition pin or wiring connections.

- **Check Ignition Pin Connections:** Carefully remove the front panel of the water heater (after turning off gas

and power). Locate the ignition pins and ensure their connectors are firmly attached. Re-seat them if loose.

- **Check Wiring:** Inspect all wiring connections, especially those to the solenoid valve and ignition module, to ensure they are secure and not loose.

8.4 Troubleshooting Video Guides

Video 3: Troubleshooting common issues including water pressure, battery problems, and wiring connections. (Source: CO-Z)

Video 4: Detailed explanation of water sensor and switch functionality for troubleshooting. (Source: BreeRainz)

9. WARRANTY & SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact Vaillant customer service. For technical support, service, or spare parts, please contact your local Vaillant dealer or an authorized service center.

