Vaillant miniVED H 3/3 N

Vaillant miniVED H 3/3 N Instantaneous Water Heater User Manual

Model: miniVED H 3/3 N (0010044423)

1. Introduction

This manual provides essential information for the safe and efficient operation of your Vaillant miniVED H 3/3 N instantaneous water heater. This compact, hydraulically controlled unit is designed to provide hot water quickly for single washbasins, such as those found in guest bathrooms. It operates at 3.5 kW and 230 V, offering an energy-efficient solution for limited hot water needs.



Image 1: Front view of the Vaillant miniVED H 3/3 N instantaneous water heater, showing its compact, white casing with the Vaillant logo and "miniVED" text.

2. Safety Information

Important Safety Instructions:

- **Professional Installation Required:** For your safety and to ensure proper functionality, the appliance must be installed and connected by a qualified professional. Failure to comply may result in product damage or safety hazards.
- **Ventilation Before First Use:** Before initial operation, the appliance must be thoroughly vented. Open the hot water tap and allow water to flow through the unit until no more air escapes. Only then connect the electrical power supply.
- **Low-Pressure Tap Requirement:** This unit operates only with a suitable low-pressure tap (three connection hoses). A low-pressure tap is not included with the delivery.
- **Electrical Connection:** The unit comes with a Schuko plug. Ensure the electrical outlet is compatible and properly grounded.
- **Intended Use:** This instantaneous water heater is designed for single washbasins and handwashing. It is not suitable for kitchen sinks or showers due to its limited hot water volume and flow rate.

3. Product Overview

The Vaillant miniVED H 3/3 N is a compact and efficient hydraulic instantaneous water heater. Its design allows for installation even in small spaces, typically under a washbasin.

Key Features:

- **Rapid Hot Water:** Delivers hot water to a single washbasin within seconds.
- **Energy Efficient:** Features an economical jet regulator and flow limiter, consuming up to 65% less energy compared to small electric storage heaters.
- **Advanced Heating System:** Equipped with a high-quality bare-wire heating system that includes a differential pressure switch for reliable operation.
- **Compact Dimensions:** Space-saving design (14.3 cm H x 19.1 cm W x 7.9 cm D) for discreet under-sink installation.
- **UV-Resistant Casing:** The cover is UV-resistant to prevent yellowing over time.

4. Setup and Installation

Installation of the Vaillant miniVED H 3/3 N must be performed by a qualified professional. This section outlines general installation considerations.

Installation Requirements:

- **Location:** Designed for under-sink installation. Ensure adequate space and accessibility for maintenance.
- **Water Connection:** Requires a cold water connection and a suitable low-pressure tap with three connection hoses. The tap is not supplied with the unit.
- **Electrical Connection:** The unit operates on 230 V and comes with a Schuko plug. A standard electrical outlet is required.
- **Mounting:** Can be installed under a table or mounted on a wall.



Image 2: Rear view of the Vaillant miniVED H 3/3 N, showing the water inlet/outlet connections at the top and the integrated power cable with a Schuko plug coiled below.

Initial Commissioning:

1. Ensure all water connections are secure and leak-free.

2. Open the hot water tap completely and allow water to flow through the unit until all air is expelled and a steady stream of water emerges. This process is crucial for proper ventilation.
3. Once vented, connect the electrical power supply by plugging the Schuko plug into a suitable outlet.
4. The unit is now ready for operation.

5. Operating Instructions

The Vaillant miniVED H 3/3 N is designed for simple operation. Once installed and commissioned, it provides hot water on demand.

- **Hot Water Delivery:** To obtain hot water, simply open the hot water tap connected to the unit. The instantaneous heater will activate and begin heating the water as it flows through.
- **Temperature Regulation:** The unit provides a fixed temperature increase. The final water temperature will depend on the incoming cold water temperature. The external water quantity regulation allows for minor adjustments to flow, which can influence the perceived temperature.
- **Flow Rate:** The maximum flow rate is 2.05 liters per minute. This flow rate is optimized for handwashing and light use at a single washbasin.

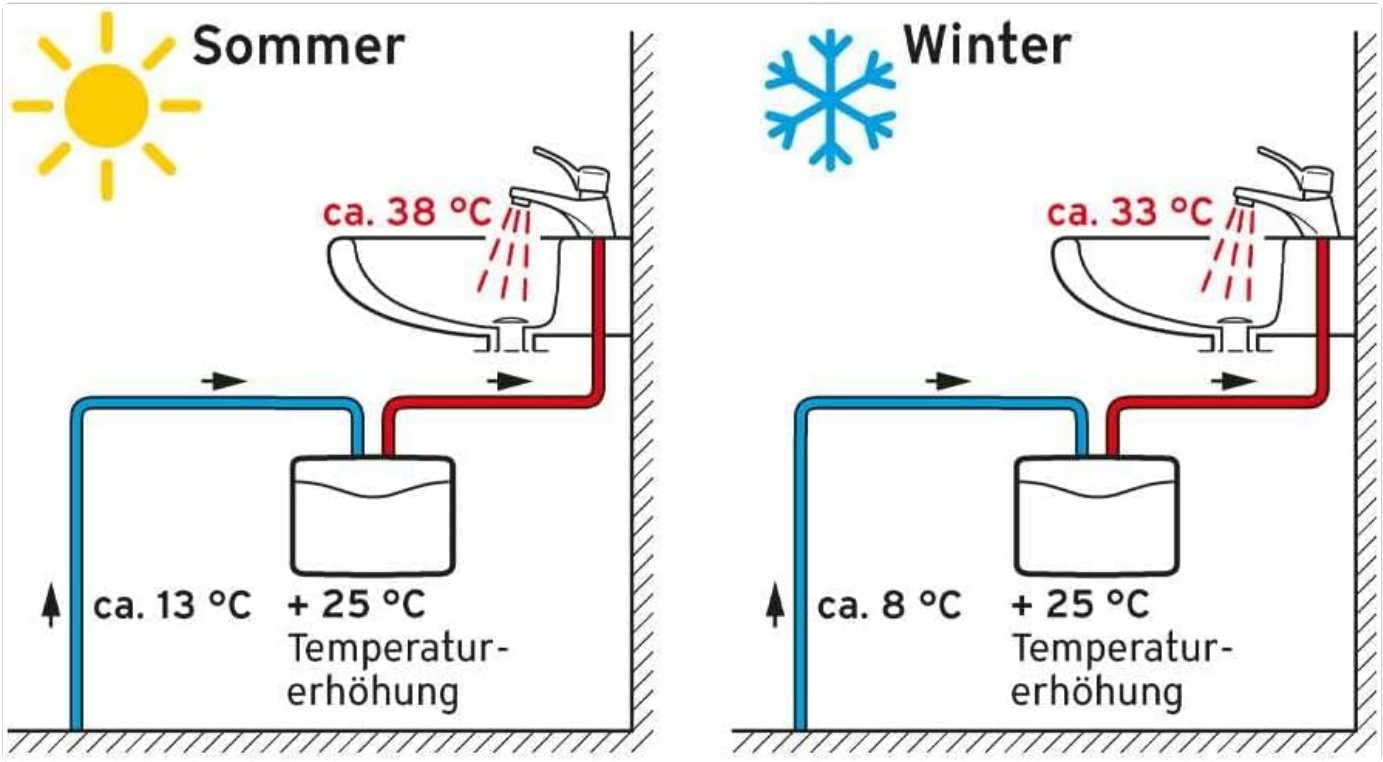


Image 3: Diagram illustrating the water temperature increase provided by the miniVED H. In summer, with an incoming water temperature of approximately 13°C, the unit provides a temperature increase of about 25°C, resulting in approximately 38°C hot water. In winter, with an incoming water temperature of approximately 8°C, the unit also provides a 25°C increase, resulting in approximately 33°C hot water.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your Vaillant miniVED H 3/3 N.

- **Cleaning:** Clean the exterior casing with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Heating Cartridge:** The bare-wire heating cartridge is designed for easy maintenance. For any internal cleaning or servicing, it is recommended to contact a qualified technician.
- **Jet Regulator:** Periodically check and clean the economical jet regulator at the tap to ensure optimal flow and energy efficiency.

- **Professional Inspection:** It is advisable to have the unit inspected by a qualified professional periodically to ensure all components are functioning correctly and safely.

7. Troubleshooting

If you experience issues with your Vaillant miniVED H 3/3 N, consider the following general troubleshooting steps. For complex problems, always consult a qualified professional.

- **No Hot Water:**
  - Check if the unit is properly plugged in and receiving power.
  - Ensure the hot water tap is fully open.
  - Verify that the unit was properly vented during commissioning. If not, re-vent the unit as described in Section 4.
  - Check your household's circuit breaker or fuse box.
- **Insufficient Hot Water Temperature:**
  - The final water temperature depends on the incoming cold water temperature. In colder months, the output temperature may be lower.
  - Ensure the water flow rate is not excessively high, as this can reduce the temperature increase.
- **Low Water Flow:**
  - Check the tap's jet regulator for blockages or limescale buildup.
  - Ensure the water supply valve to the unit is fully open.

If these steps do not resolve the issue, please refer to the complete installation and operating manual provided with your product or contact Vaillant customer support.

8. Specifications

Feature	Specification
Model	miniVED H 3/3 N
Product Number	0010044423
Power Output	3.5 kW
Voltage	230 V
Dimensions (H x W x D)	14.3 cm x 19.1 cm x 7.9 cm
Weight	1.4 kg
Max Flow Rate	2.05 Liters per minute
Energy Efficiency Class	A
Installation Method	Under-sink, wall-mounted
Material	Plastic
Power Type	Electric cable with Schuko plug

Feature	Specification
Special Features	Compact, UV-resistant casing, bare-wire heating system

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or visit the official Vaillant website. In case of technical issues, questions, or to arrange professional servicing, please contact Vaillant customer support.

Vaillant Contact Information:

Please refer to your regional Vaillant website or the contact details provided in your product's original packaging for specific support channels.

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

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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