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> Vaillant aroSTOR VWL BM 270/5 Hot Water Heat Pump User Manual

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Model: VWL BM 270/5

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Vaillant aroSTOR VWL BM 270/5 hot water heat pump. Please read these instructions carefully before installation, operation, or maintenance. Retain this manual for future reference.

The Vaillant aroSTOR VWL BM 270/5 is an environmentally friendly hot water heat pump designed for domestic hot water preparation using air and renewable energy. It is suitable for new buildings and modernizing single-family homes.

PRODUCT OVERVIEW



Image 1: Front view of the Vaillant aroSTOR VWL BM 270/5 hot water heat pump, showing the control panel and overall cylindrical design.

The aroSTOR VWL BM 270/5 features a stainless steel container, ensuring durability and eliminating the need for a sacrificial anode. It offers high comfort with the ability to set hot water temperatures below 60°C via heat pump operation, and significant energy savings due to its high efficiency.

- **Stainless Steel Container:** No sacrificial anode required.
- **Quiet Operation:** Operates at 43dB, making it one of the quietest products in its category.
- **Energy Efficiency:** Rated A+ for hot water heating.
- **Renewable Energy Use:** Utilizes air for hot water preparation, compatible with solar power support.

SETUP AND INSTALLATION

Installation of the Vaillant aroSTOR VWL BM 270/5 must be performed by a qualified and certified professional in accordance with local regulations and safety standards. Incorrect installation can lead to hazards and void the warranty.

Placement Considerations

- Ensure adequate space for installation, maintenance, and air circulation.
- The unit should be placed on a level, stable surface capable of supporting its weight when full.
- Consider proximity to water connections and drainage for condensate.



Image 2: The Vaillant aroSTOR heat pump installed in a utility room, demonstrating typical placement alongside other household equipment.



Image 3: The Vaillant aroSTOR heat pump positioned in a corner, illustrating space requirements and integration into a living space.

Technical Connections

Refer to the technical drawing for precise connection points and dimensions. All connections must be sealed properly to prevent leaks.

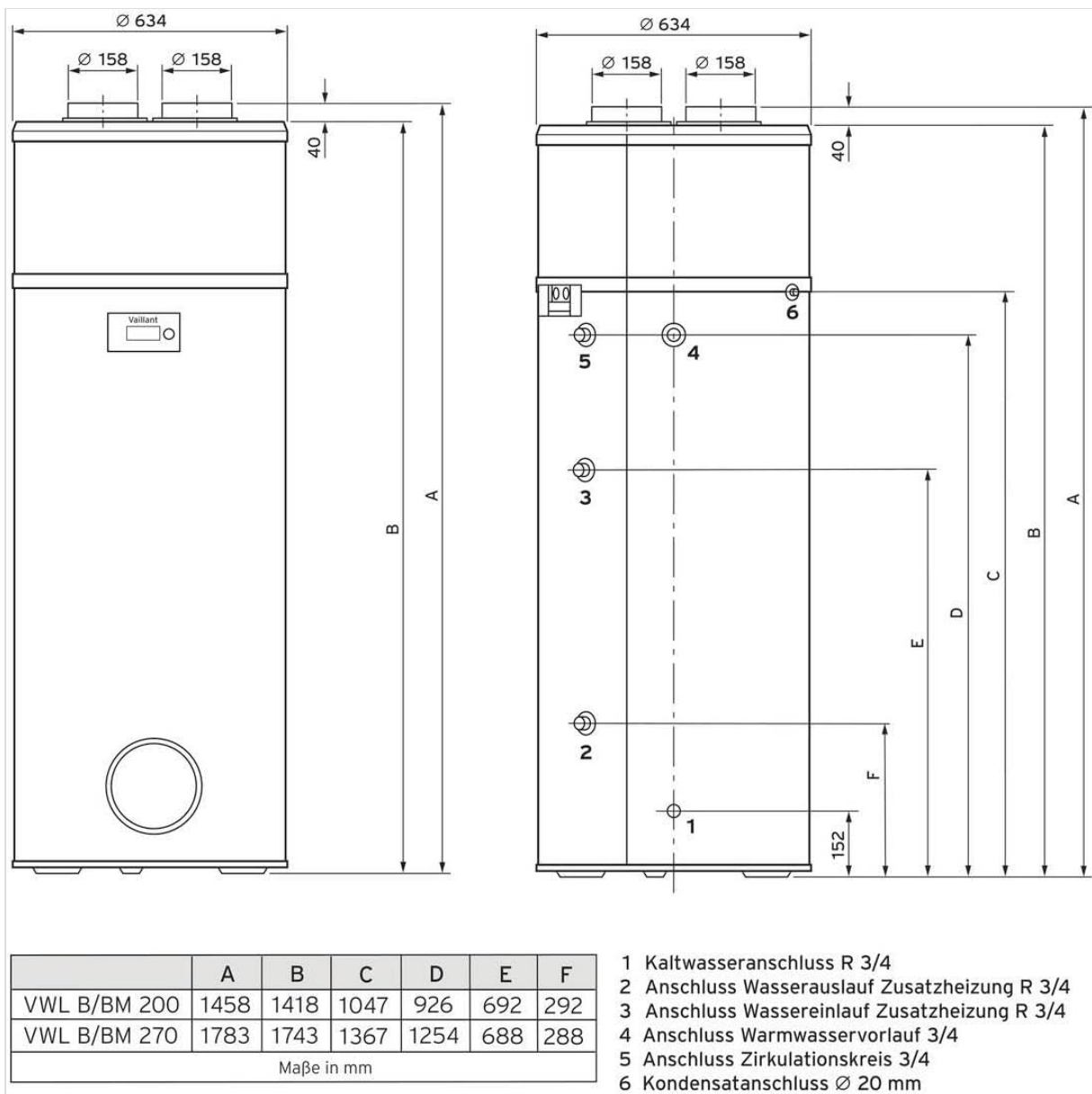


Image 4: Technical drawing detailing the dimensions (A, B, C, D, E, F) and connection points (1-6) for the Vaillant aroSTOR VWL B/BM 270 model. Key connections include cold water, hot water outlet, additional heating water inlet, warm water flow, circulation, and condensate drain.

- 1. Cold Water Connection (R 3/4):** Connect the main cold water supply.
- 2. Hot Water Outlet (R 3/4):** Connect to the domestic hot water distribution system.
- 3. Additional Heating Water Inlet (R 3/4):** For supplementary heating sources.
- 4. Warm Water Flow (R 3/4):** For connection to an external heat exchanger.
- 5. Circulation Connection (R 3/4):** For hot water circulation systems.
- 6. Condensate Connection (Ø 20 mm):** Ensure proper drainage for condensate.

OPERATING INSTRUCTIONS

The aroSTOR VWL BM 270/5 is designed for user-friendly operation. The integrated control panel allows for easy adjustment of settings.

Basic Operation

- **Power On/Off:** Use the main power switch to turn the unit on or off.
- **Temperature Setting:** Adjust the desired hot water temperature using the controls on the display panel. The unit can operate efficiently at temperatures below 60°C.
- **Operating Modes:** Select between different operating modes (e.g., heat pump only, heat pump with

auxiliary heating) as per your requirements and energy preferences.

Energy Saving Tips

- Optimize temperature settings to avoid unnecessary heating.
- Utilize the timer function (if available) to heat water during off-peak electricity hours or when solar power is abundant.
- Ensure proper insulation of hot water pipes to minimize heat loss.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your heat pump. It is recommended to have the unit inspected annually by a qualified service technician.

User Maintenance

- **Cleaning:** Keep the exterior of the unit clean using a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Air Filter:** Check and clean the air filter (if accessible) regularly to ensure optimal airflow and efficiency. Refer to the full installation manual for filter location and cleaning instructions.
- **Condensate Drain:** Periodically check the condensate drain for blockages and ensure it is flowing freely.

Professional Maintenance

A qualified technician should perform the following checks:

- Inspection of all electrical connections.
- Checking refrigerant levels and system integrity.
- Verification of safety devices.
- Thorough cleaning of internal components.

TROUBLESHOOTING

If you experience issues with your aroSTOR VWL BM 270/5, please consult the following basic troubleshooting guide. For complex problems, always contact a qualified service technician.

- **No Hot Water:**
 - Check if the unit is powered on.
 - Verify the temperature setting.
 - Ensure water supply valves are open.
 - Check for error codes on the display panel.
- **Insufficient Hot Water:**
 - Review temperature settings and operating mode.
 - Ensure the air intake/exhaust is not obstructed.
- **Unusual Noises:**
 - Contact a service technician immediately if you hear grinding, banging, or other unusual loud noises.

If the problem persists after basic checks, contact Vaillant customer support or a certified service partner.

SPECIFICATIONS

Technical Specifications for Vaillant aroSTOR VWL BM 270/5

Feature	Detail
Brand	Vaillant
Model Number	VWL BM 270/5
Part Number	265655
Container Capacity	267.3 liters
Energy Efficiency Class (Hot Water)	A+
Annual Energy Consumption	785 kWh/year
Sound Power Level	43 dB
Heat Exchanger	1 (integrated)
Container Material	Stainless Steel
Package Dimensions	52 x 24 x 6 cm
Item Weight	0.12 Kilograms (Note: This likely refers to package weight, not the unit's operational weight. Refer to full product documentation for unit weight.)
Batteries Required	No
ASIN	B07WHSR9MB
Date First Available	30 Jun. 2020

WARRANTY INFORMATION

Vaillant provides a **5-year warranty on the stainless steel container** of the aroSTOR VWL BM 270/5. For other components, standard manufacturer warranty terms apply.

Please retain your proof of purchase for warranty claims. For full details regarding warranty terms, conditions, and registration, please refer to the official Vaillant warranty documentation provided with your product or visit the Vaillant website.

SUPPORT AND CONTACT

For technical assistance, service requests, or further information regarding your Vaillant aroSTOR VWL BM 270/5 hot water heat pump, please contact Vaillant customer support.

You can typically find contact information on the official Vaillant website or in the supplementary documentation included with your product.

When contacting support, please have your model number (VWL BM 270/5) and serial number (found on the product label) readily available.

