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› [Buderus WPT 270/2 I-S Heat Pump Water Heater Instruction Manual](#)

## Buderus WPT 270/2 I-S

# Buderus WPT 270/2 I-S Heat Pump Water Heater Instruction Manual

Model: WPT 270/2 I-S

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## 1. SAFETY INFORMATION

**Important:** Read all instructions carefully before installation, operation, or maintenance of the Buderus WPT 270/2 I-S Heat Pump Water Heater. Failure to follow these instructions could result in property damage, personal injury, or death.

- Installation and service must be performed by a qualified technician.
- Ensure the unit is properly grounded to prevent electrical shock.
- Do not operate the unit if any part is damaged or malfunctioning.
- Keep flammable materials away from the water heater.
- Ensure adequate ventilation around the unit.
- The appliance must be installed in a frost-free environment.
- Maximum operating temperature for stored hot water is 80 °C. Maximum operating temperature for heated water is 110 °C.
- Maximum operating pressure for stored hot water side is 10 bar. Maximum operating pressure for heated water side is 6 bar.

## 2. PRODUCT OVERVIEW

The Buderus Logafix WPT 270/2 I-S is a highly efficient heat pump water heater designed to utilize up to 70% free environmental energy from ambient air and appliance waste heat for water heating. This unit offers flexible installation options and advanced features for domestic hot water supply.





Figure 1: Buderus WPT 270/2 I-S Heat Pump Water Heater. This image shows the cylindrical white unit with control panel and various connections.

## Key Features:

- Efficient hot water generation using ambient air.
- Flexible installation: standalone or integrated with central heating/solar systems.
- Removable heat pump section for easier installation.
- Advanced control with illuminated display and multiple time programs.
- Additional functions: basement dehumidification, ventilation, and air cooling.
- Corrosion-resistant Buderus thermoglaze Duoclean plus and magnesium anode.
- High energy efficiency (95%) and COP (3.2 according to EN16147).

## 3. SETUP & INSTALLATION

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Proper installation is crucial for the safe and efficient operation of your Buderus WPT 270/2 I-S. This section provides general guidelines; always refer to local regulations and consult a qualified installer.

### 3.1 Site Selection

- **Location:** The unit should be installed in a frost-free basement or utility room.
- **Ambient Air Temperature:** The temperature of the intake air must be between +5 °C and +35 °C.
- **Ventilation:** Ensure adequate air circulation for optimal heat pump performance.
- **Space:** Allow sufficient space around the unit for maintenance and service.

### 3.2 Electrical Connection

- The unit requires a 230 V/50 Hz electrical connection.
- The electric heating element is 2 kW.
- All electrical work must comply with local codes and be performed by a certified electrician.

### 3.3 Water Connections

- Connect the cold water inlet and hot water outlet according to the markings on the unit.
- Ensure all connections are watertight.
- The unit includes a smooth tube heat exchanger for optional connection to a solar system or boiler.

### 3.4 Air Duct System (Optional)

- The WPT 270/2 I-S can be connected to an air duct system.
- It features two DN160 supports for optional duct system connection.
- This allows for additional functions such as basement dehumidification, ventilation, and air cooling.

### 3.5 Initial Startup

- After all connections are made and checked, fill the water tank completely before switching on the power.
- Follow the on-screen prompts on the control panel for initial configuration.

## 4. OPERATING INSTRUCTIONS

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The Buderus WPT 270/2 I-S features an intuitive control panel with an illuminated display for easy operation.

## 4.1 Control Panel

The illuminated display provides information on current status, temperature settings, and operational modes. Use the navigation buttons to access menus and adjust settings.

## 4.2 Temperature Settings

- **Heat Pump Operation:** Hot water temperature can be set up to 60 °C using the heat pump.
- **Electric Heating Element:** For higher temperatures, the integrated electric heating element can raise the water temperature up to 70 °C.
- Adjust the desired temperature via the control panel settings.

## 4.3 Time Programs

- The unit supports multiple time programs, allowing you to schedule hot water production to match your daily routine and optimize energy consumption.
- Refer to the control panel menu for setting up and managing time programs.

## 4.4 Thermal Disinfection

The WPT 270/2 I-S includes a thermal disinfection function to prevent bacterial growth (e.g., Legionella). This function periodically heats the water to a high temperature. Consult the manual for activation and scheduling of this feature.

## 4.5 Additional Functions (with Air Duct System)

If connected to an air duct system, the unit can provide:

- **Basement Dehumidification:** Helps reduce humidity levels in the basement.
- **Ventilation Function:** Improves air circulation.
- **Air Cooling:** Provides a degree of air cooling in the connected space.

# 5. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your Buderus WPT 270/2 I-S. Always disconnect power before performing any maintenance.

## 5.1 Corrosion Protection

- The internal surfaces in contact with hot water are protected with Buderus thermoglaze Duoclean plus, which is corrosion-resistant according to DIN 4753-3.
- A magnesium anode provides additional cathodic corrosion protection. This anode should be inspected periodically (e.g., annually) by a qualified technician and replaced if significantly depleted.

## 5.2 General Cleaning and Inspection

- Keep the exterior of the unit clean. Use a soft, damp cloth. Do not use abrasive cleaners.
- Periodically check for any leaks around connections.
- Ensure that the air intake and exhaust vents (if applicable) are free from obstructions.
- It is recommended to have the unit professionally inspected and serviced annually.

# 6. TROUBLESHOOTING

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This section provides basic troubleshooting steps for common issues. For more complex problems, contact a qualified

service technician.

## 6.1 No Hot Water / Insufficient Hot Water

- **Check Power Supply:** Ensure the unit is plugged in and the circuit breaker has not tripped.
- **Check Temperature Settings:** Verify the desired temperature is set correctly on the control panel.
- **Time Programs:** Ensure no time program is preventing hot water production.
- **Airflow:** Check if the air intake or exhaust is blocked.
- **Error Codes:** Look for any error messages on the display and consult the full manual for their meaning.

## 6.2 Unusual Noises

- Minor operational noises are normal.
- If you hear loud or unusual noises, turn off the unit and contact a service technician.

## 6.3 Leaks

- Immediately turn off the water supply and power to the unit.
- Identify the source of the leak.
- Contact a qualified plumber or service technician.

## 7. SPECIFICATIONS

Feature	Value
Manufacturer	Buderus
Part Number	7736501465
Model	WPT 270/2 I-S
Volume	260 Liters
Voltage	230 Volt
Maximum Pressure (Hot Water Side)	10 Bar
Maximum Pressure (Heated Water Side)	6 Bar
Diameter	700 Millimeter
Weight	125 Kilogram
Heating Power / Output	2.0 kW
Heat Exchange Surface	1.3 m <sup>2</sup>
Electric Heating Element	2 kW
COP (according to EN16147)	3.2
Energy Efficiency	95%
First Available Date	January 15, 2020

## 8. WARRANTY & SUPPORT

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For detailed warranty information, please refer to the warranty card included with your product or visit the official Buderus website. In case of technical issues, service requests, or questions not covered in this manual, please contact Buderus customer support or your authorized dealer.

**Manufacturer:** Buderus

**Website:** [www.buderus.com](http://www.buderus.com) (or relevant regional website)

