Buderus 8738901566

Buderus Para 7M RS 3H Circulator Pump Instruction Manual

Model: 8738901566

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Buderus Para 7M RS 3H Circulator Pump, model 8738901566. Please read these instructions carefully before installation and keep them for future reference.

Safety Information

- Installation and maintenance must be performed by qualified personnel only.
- Ensure the power supply is disconnected before any installation or maintenance work.
- The pump operates with electrical current; observe all electrical safety precautions.
- Do not operate the pump if it is damaged or if any parts are missing.
- Protect the pump from freezing temperatures.

Product Overview

The Buderus Para 7M RS 3H is a high-efficiency circulator pump designed for heating systems. It ensures optimal circulation of heating water, contributing to the efficient operation of your system.

Figure 1: Buderus Para 7M RS 3H Circulator Pump. This image shows the pump from a front-side angle, highlighting its compact design, control panel with a green button and indicator lights, and threaded connections. The label indicates it is made by Wilo Intac in France, with model details 'Para 15/7-50/SC' and technical specifications like EEI ≤ 0.20-Part 3, IPX4D, 6-50W, Imax 0.44A, PN10, TF95, 1-230V, 50/60Hz. Two sealing rings are visible in the foreground.

Technical Specifications

Feature	Specification
Manufacturer	Buderus (Made by Wilo Intac)
Model Number	8738901566 (Replaces 7099418 / 4511423)
Energy Efficiency Index (EEI)	≤ 0.20-Part 3
Protection Class	IPX4D
Power Consumption	6-50W
Max Current	0.44 A
Nominal Pressure	PN10
Temperature Class	TF95
Voltage	1-230V, 50/60Hz
Compatibility	Buderus Logamax Plus GB132 T (floor-standing unit)

Setup and Installation

1. **Preparation:** Ensure the heating system is depressurized and cooled down. Isolate the section where the pump will be installed using shut-off valves.
2. **Mounting:** Install the pump in the designated position, ensuring the flow direction arrow on the pump body matches the system's flow. Use the provided sealing rings for a watertight connection.
3. **Electrical Connection:** Connect the pump to the electrical supply according to local regulations and the wiring diagram provided with the pump (not included in this general manual). Ensure proper grounding.
4. **Filling and Venting:** After installation, refill the heating system and thoroughly vent all air from the system and the pump. This is crucial for proper operation and to prevent damage.
5. **Initial Start-up:** Gradually open the shut-off valves and restore power to the pump. Observe for leaks and unusual noises.

Operating Instructions

The Buderus Para 7M RS 3H pump features a user-friendly control interface. Refer to Figure 1 for visual reference of the control panel.

- **Power Button:** The green button on the control panel is used to switch the pump ON/OFF and to cycle through operating modes.
- **Operating Modes:** The pump typically offers several operating modes (e.g., constant pressure, proportional pressure, fixed speed). Press the green button briefly to cycle through these modes. Indicator lights will show the currently selected mode.
- **Status Indicators:** LED lights on the panel indicate the pump's operational status and selected mode. Consult the specific wiring diagram or detailed product sheet for a full explanation of each indicator.

Maintenance

Regular maintenance ensures the longevity and efficient operation of your circulator pump.

- **Annual Inspection:** Have a qualified technician inspect the pump annually for wear, leaks, and proper operation.
- **System Water Quality:** Ensure the heating system water is clean and treated to prevent corrosion and scale buildup, which can affect pump performance.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris to ensure proper heat dissipation.
- **Venting:** Periodically check and vent the heating system to remove any trapped air, which can cause noise and reduce efficiency.

Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power supply; Motor blocked; Incorrect wiring	Check power connection and circuit breaker; Consult a qualified technician to unblock motor or check wiring.
Pump runs but no circulation	Air in system; Valves closed; Impeller blocked	Vent the system thoroughly; Open all relevant valves; Consult a qualified technician to inspect impeller.

Unusual noise/vibration	Air in system; Cavitation; Loose mounting; Bearing wear	Vent the system; Check system pressure; Secure mounting; Consult a qualified technician for bearing inspection.
Leakage	Loose connections; Damaged seals	Tighten connections; Replace damaged seals (requires professional service).

Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact your Buderus dealer. Technical support can be obtained through authorized Buderus service partners.