WILO 412-WPAR-157130

Wilo Inverter Circulation Pump 15/7-50 User Manual

Model: 412-WPAR-157130

1. Product Overview

The Wilo Inverter Circulation Pump, model 15/7-50, is a high-efficiency recirculation pump designed for hot water heating systems. It features integrated differential pressure regulation, ensuring optimal performance and energy savings. This pump is engineered to circulate heating water efficiently throughout your system, providing consistent warmth and reliable operation.

An image showing the Wilo Inverter Circulation Pump, model 15/7-50. The pump features a compact design with a black cast iron body and a light grey control unit. The control unit displays the Wilo logo, QR codes, and various operational indicators, including a prominent green button for user interaction. The inlet and outlet connections are visible, indicating its function in a heating system.

2. Setup and Installation

Proper installation is crucial for the safe and efficient operation of your Wilo circulation pump. It is recommended that installation be performed by a qualified professional.

2.1 Safety Precautions

- Ensure the main power supply is disconnected before beginning any installation or maintenance work.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Verify that the installation site is free from moisture and extreme temperatures.
- Adhere to all local electrical and plumbing codes.

2.2 Installation Steps

1. **Prepare the System:** Drain the heating system completely and ensure all valves are closed.
2. **Mount the Pump:** Install the pump in the designated location, ensuring it is securely fastened and oriented correctly (refer to pump markings for flow direction).
3. **Connect Piping:** Connect the inlet and outlet pipes to the pump using appropriate fittings. Ensure all connections are watertight.
4. **Electrical Connection:** Connect the pump to the electrical supply according to the wiring diagram provided with the

pump (not included in this manual, refer to product packaging). Ensure proper grounding.

5. **Fill and Vent:** Slowly refill the heating system, bleeding air from the system and the pump until all air is expelled.
6. **Check for Leaks:** Inspect all connections for leaks before restoring power.

3. Operating Instructions

The Wilo Inverter Circulation Pump is designed for user-friendly operation with its intelligent control system.

3.1 Initial Start-up

1. After successful installation and system filling, restore power to the pump.
2. The pump will typically perform an automatic self-check.
3. Observe the display or indicator lights for operational status.

3.2 Mode Selection

The pump features integrated differential pressure regulation. Depending on the model and specific controls, you may be able to select different operating modes (e.g., constant pressure, proportional pressure, fixed speed). Refer to the pump's control panel for available settings and adjustments.

- **Constant Pressure Mode:** Maintains a constant differential pressure regardless of flow rate.
- **Proportional Pressure Mode:** Adjusts differential pressure proportionally to the flow rate, reducing pressure at lower flow rates.
- **Fixed Speed Mode:** Operates at a constant speed, suitable for systems with stable flow requirements.

Use the control buttons on the pump's interface to cycle through modes and adjust settings as needed for your heating system's requirements.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Wilo circulation pump.

- **Annual Inspection:** It is recommended to have a qualified technician inspect the pump and heating system annually.
- **Check for Leaks:** Periodically inspect all pipe connections for any signs of leaks. Address any leaks immediately.
- **System Water Quality:** Ensure the heating system water quality is maintained according to manufacturer recommendations to prevent corrosion and scaling.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris to ensure proper ventilation.
- **Air Venting:** If the pump becomes noisy or inefficient, it may be due to air in the system. Re-vent the system as described in the installation section.

Do not attempt to disassemble the pump unless you are a qualified service technician.

5. Troubleshooting

This section provides solutions to common issues you might encounter with your Wilo circulation pump.

Problem	Possible Cause	Solution
Pump not running	No power supply; Thermal overload; Motor fault	Check power connection and circuit breaker; Allow pump to cool down; Contact qualified technician

Problem	Possible Cause	Solution
Pump is noisy	Air in the system; Cavitation; Bearing wear	Vent the heating system; Check system pressure; Contact qualified technician
Insufficient heating performance	Incorrect pump setting; Air in system; Blockage in piping	Adjust pump operating mode; Vent the system; Check for blockages and clean if necessary
Pump leaking	Loose connections; Damaged seals	Tighten connections; Contact qualified technician for seal replacement

If the problem persists after attempting these solutions, please contact a qualified heating system technician or Wilo customer support.

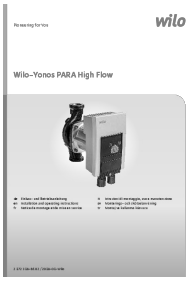
6. Technical Specifications

- **Manufacturer:** Wilo
- **Model Number:** 412-WPAR-157130
- **Product Type:** High-efficiency recirculation pump
- **Application:** Hot water heating systems
- **Regulation:** Integrated differential pressure regulation
- **Quantity:** 1 item
- **Batteries Required:** No
- **ASIN:** B09MG8T175
- **First Available Date:** November 30, 2021

7. Warranty and Support

For information regarding product warranty, please refer to the warranty card included with your purchase or visit the official Wilo website.
For technical support, spare parts, or service inquiries, please contact your local Wilo service partner or the retailer from whom you purchased the pump.
Important: Information regarding spare parts availability is currently unavailable.

Related Documents - 412-WPAR-157130

	Wilo-Para Hocheffizienz-Umwälzpumpe: Einbau- und Betriebsanleitung Umfassende Anleitung für die Wilo-Para Hocheffizienz-Umwälzpumpe. Enthält Informationen zu Installation, Betrieb, Sicherheit und Wartung für Heizungssysteme. Dokumentiert die korrekte Handhabung und technische Spezifikationen.
	Wilo-Para MAXO/-G/-R/-Z Kiertovesipumpun Asennus- ja Käyttöohje Kattava asennus- ja käyttöohje Wilo-Para MAXO/-G/-R/-Z -sarjan korkean hyötysuhteen kiertovesipumpuille. Sisältää turvallisuusohjeet, asennus-, käyttö-, huolto- ja vianmääritystiedot.
	Wilo-Yonos PARA High Flow Installation and Operating Instructions Comprehensive guide for the Wilo-Yonos PARA High Flow circulation pump, covering installation, electrical connection, operation, maintenance, and troubleshooting. Ensure safe and efficient use.
	Wilo-Para MAXO 25-180-08-F02 U03 Circulating Pump Installation and User Manual This document provides detailed instructions for the installation, operation, and maintenance of the Wilo-Para MAXO 25-180-08-F02 U03 circulating pump. It covers general information, pump description, connection procedures, control functions, technical specifications, and troubleshooting guidance.
	Wilo-Star RS, RSD, ST, RSG, AC Circulating Pump Installation and Operating Instructions Comprehensive installation and operating instructions for Wilo-Star RS, RSD, ST, RSG, AC circulating pumps, covering general information, safety, transport, description, assembly, installation, electrical connection, operation, maintenance, and troubleshooting.
	Wilo-Plavis ...-C Installation and Operating Instructions Comprehensive installation and operating instructions for the Wilo-Plavis ...-C condensate pump, designed for efficient condensate removal from boilers, air conditioning units, cooling systems, and dehumidification systems.