KG 25-40/180

RÖHTENBACH 25-40/180 Circulation Pump User Manual

Model: 25-40/180 | Manufacturer: KG

1. Introduction

This manual provides essential information for the safe and efficient operation of your RÖHTENBACH 25-40/180 circulation pump. The RÖHTENBACH 25-40/180 circulation pump is designed to ensure the efficient circulation of heating water within a heating system. Constructed from high-quality, economical materials, this pump features a manual speed regulator for optimal adaptation to various system requirements. It is suitable for use in nearly all heating and air conditioning systems, operating effectively within a temperature range of +2 °C to +110 °C. Please read these instructions carefully before installation, operation, or maintenance.

2. Safety Instructions

Important: Always observe local regulations and safety standards during installation and operation.

- Ensure the power supply is disconnected before any installation, maintenance, or repair work.
- Installation and electrical connections must be performed by a qualified professional.
- Do not operate the pump if it is damaged or if the power cable is frayed.
- Protect the pump from freezing temperatures.
- The pump is designed for circulating water in heating and air conditioning systems only. Do not use it for other liquids or purposes.
- Keep children and unauthorized persons away from the pump during operation.

3. Product Overview

The RÖHTENBACH 25-40/180 circulation pump is a robust unit designed for reliable performance in heating systems. It features a durable red casing, typically made of cast iron, and a black control box housing the manual speed selector.



Figure 3.1: Front view of the RÖHTENBACH 25-40/180 circulation pump, showing the red pump body and the black control box with the manual speed selector.



Figure 3.2: Side view of the RÖHTENBACH 25-40/180 circulation pump, highlighting the threaded connections for pipe integration.



Figure 3.3: Another front view of the RÖHTENBACH 25-40/180 circulation pump, providing a clear look at the control panel.

4. Setup and Installation

Proper installation is crucial for the pump's performance and longevity.

4.1 Pre-installation Checks

- Verify that the installation site is suitable, providing adequate space for maintenance and ventilation.
- Ensure the power supply matches the pump's requirements (230 V).
- Check that the pipe connections are clean and free of debris.

4.2 Mounting the Pump

1. The pump should be installed in a horizontal position with the motor shaft horizontal to prevent air pockets.
2. Ensure the installation length of 180 mm is accommodated in your piping system.
3. Connect the pump to the heating system pipes using appropriate fittings for the 1 1/2" / DN 25 1" nominal diameter. Use sealing materials as required.
4. Tighten all connections securely to prevent leaks.

4.3 Electrical Connection

- All electrical work must be carried out by a certified electrician.
- Connect the pump to a 230 V power supply, ensuring proper grounding.
- Follow the wiring diagram provided with the pump (if applicable, not detailed in this general manual).

5. Operating Instructions

The RÖHTENBACH 25-40/180 pump features a manual speed regulator to adjust its performance.

5.1 Initial Start-up

1. After installation, fill the heating system with water and bleed any air from the system.
2. Ensure the pump is fully submerged in water (if applicable to your system type) or that the system is adequately pressurized.
3. Switch on the power supply to the pump.

5.2 Speed Adjustment

The pump offers three speed settings, allowing you to optimize its operation based on your heating system's needs and energy consumption.

- **Level 1:** 38 W (Lowest power, suitable for minimal circulation requirements)
- **Level 2:** 53 W (Medium power, for standard operation)
- **Level 3:** 72 W (Highest power, for maximum circulation or demanding conditions)

Use the manual selector switch on the pump's control box to choose the desired speed level.

5.3 Operating Temperature

The pump is designed to operate with medium temperatures ranging from +2 °C to +110 °C. Ensure your system's operating temperature remains within this range.

6. Maintenance

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

- **Annual Inspection:** Check for any signs of leaks, corrosion, or unusual noises.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris.
- **System Bleeding:** Periodically bleed air from the heating system to prevent cavitation and ensure optimal flow.
- **Winterization:** If the system is shut down for an extended period in cold weather, ensure the pump and pipes are drained or protected from freezing.
- **Professional Service:** For any complex issues or internal inspections, consult a qualified technician.

7. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Pump does not start	No power supply; Motor seized; Air in pump.	Check power connection and circuit breaker; Consult a technician; Bleed the system and pump.
Pump is noisy	Air in system; Cavitation; Foreign objects in pump; Incorrect installation.	Bleed the system; Check system pressure; Inspect pump for obstructions (disconnect power first); Verify installation.
Insufficient flow	Pump speed too low; Blockage in system; Air in system.	Increase pump speed; Check filters and pipes for blockages; Bleed the system.
Leakage	Loose connections; Damaged seals.	Tighten connections; Replace seals (professional service recommended).

If you cannot resolve the issue using the troubleshooting guide, please contact a qualified service technician.

8. Technical Specifications

Parameter	Value
Model Number	25-40/180
Manufacturer	KG
Power Consumption (Level 1)	38 W
Power Consumption (Level 2)	53 W
Power Consumption (Level 3)	72 W
Medium Temperature Range	+2 °C to +110 °C
Operating Pressure	10 bar
Rated Voltage	230 V
Delivery Head	4 m
Installation Length	180 mm
Nominal Diameter / Dimensions	1 1/2" / DN 25 1"
Material	Stainless Steel (internal components), Cast Iron (body)
Color	Red
Power Source	Electric Cable

9. Warranty and Support

This product is covered by a standard manufacturer's warranty. Please refer to your purchase documentation for specific warranty terms and conditions.
For technical support, spare parts, or warranty claims, please contact your retailer or the manufacturer directly. Keep your proof of purchase handy when contacting support.
Manufacturer: KG

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