

IBO OHI25-60_180

IBO OHI 25-60/180 Circulation Pump User Manual

1. PRODUCT OVERVIEW

The IBO OHI 25-60/180 circulation pump, also known as a heating pump, facilitates the movement of heating water within a heating system. This pump model features a manual 3-speed regulator, allowing for system adaptation. It is suitable for use in heating and air conditioning systems with fluid temperatures ranging from +2°C to +110°C.

Key features include:

- Manual 3-speed regulator for optimal system adaptation.
- Suitable for heating and air conditioning systems with fluid temperatures from +2°C to +110°C.
- Constructed with a ceramic shaft, graphite radial bearing, stainless steel bearing plate and rear pot, and a grey cast iron pump housing.
- Compact design for easy installation.
- Quiet operation.



Image 1: IBO OHI 25-60/180 Circulation Pump. This image displays the orange-colored pump unit with its black control panel, showing the speed selector and technical specifications. Two black rubber seals are visible at the bottom.

2. SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power supply is disconnected before any installation, maintenance, or repair work. All electrical connections must be performed by a qualified electrician in accordance with local regulations. The pump requires a 230V, 50Hz power supply.
- **Water Temperature:** The pump handles fluid temperatures between +2°C and +110°C. Exercise caution when working with hot water to prevent burns.
- **Pressure:** The maximum operating pressure is 10 bar. Ensure the system components can withstand this pressure.
- **Installation Environment:** Install the pump in a dry, well-ventilated area, protected from frost and direct weather exposure.
- **Personal Protective Equipment:** Always wear appropriate personal protective equipment (e.g., gloves, safety glasses) during installation and maintenance.

3. INSTALLATION GUIDE

Proper installation is crucial for the pump's efficient and safe operation.

3.1 Pre-Installation Checks

- Verify that the pump's specifications (voltage, frequency, pressure) match your system requirements.
- Ensure the installation location provides adequate space for mounting and future maintenance.
- Confirm that the piping system is clean and free of debris.

3.2 Mounting the Pump

1. The pump has an installation length of 180 mm. Ensure sufficient space between pipe connections.
2. Install the pump in the return line of the heating system, if possible, to extend its lifespan by operating at lower temperatures.
3. Ensure the motor shaft is horizontal to allow for proper lubrication of the bearings.
4. Use the provided seals (gaskets) to ensure a watertight connection to the piping. The connection diameter is 1 1/2"/1".
5. Tighten all connections securely but avoid over-tightening.

3.3 Electrical Connection

1. Ensure the main power supply is switched off at the circuit breaker.
2. Connect the pump to a 1 x 230 V, 50 Hz power supply.
3. The pump has an IP44 protection rating. Ensure the electrical connections are protected from moisture.
4. Follow the wiring diagram provided on the pump's terminal box cover.
5. Ensure proper grounding.

3.4 System Filling and Venting

1. After installation, fill the heating system with water.
2. Vent the system thoroughly to remove any trapped air. Air in the system can cause noise and reduce pump efficiency.
3. The pump may have a manual vent screw; open it carefully until water flows out, then close it.

4. OPERATING INSTRUCTIONS

The IBO OHI 25-60/180 pump features a manual 3-speed selector to adjust performance.

4.1 Initial Start-up

1. Ensure the system is filled with water and properly vented.
2. Turn on the main power supply to the pump.
3. Select a speed setting using the rotary switch on the pump's control panel.

4.2 Speed Settings

The pump offers three speed levels, each with different power consumption, maximum flow rate (Q max), and maximum head (H max):

- **Level I:** 46 W power consumption, 22 l/min maximum flow, 3 m maximum head.
- **Level II:** 63 W power consumption, 38 l/min maximum flow, 5 m maximum head.

- **Level III:** 93 W power consumption, 55 l/min maximum flow, 6 m maximum head.

Adjust the speed setting based on the heating system's requirements to achieve optimal circulation and energy efficiency.

5. MAINTENANCE

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

5.1 Routine Checks

- **Visual Inspection:** Periodically check the pump for any signs of leaks, corrosion, or damage to the casing or electrical connections.
- **Noise Level:** Listen for any unusual noises during operation, which could indicate air in the system or a mechanical issue.
- **Temperature:** Ensure the pump is not overheating.

5.2 Cleaning

Keep the exterior of the pump clean and free from dust and debris to ensure proper heat dissipation.

5.3 Winterization (if applicable)

If the heating system is to be shut down for an extended period in freezing temperatures, ensure the system, including the pump, is drained to prevent frost damage.

6. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Pump does not start	No power supply; Motor seized; Faulty wiring	Check power connection and circuit breaker; Manually turn rotor if accessible (after disconnecting power); Inspect wiring for damage.
Insufficient flow or no circulation	Air in the system; Blockage in pipes or pump; Incorrect speed setting	Vent the heating system thoroughly; Check for blockages; Adjust to a higher speed setting.
Pump is noisy	Air in the system; Cavitation; Foreign objects in pump; Incorrect mounting	Vent the system; Check system pressure; Inspect pump for debris; Ensure horizontal motor shaft.
Leakage at connections	Loose connections; Damaged seals	Tighten connections; Replace seals.

7. TECHNICAL SPECIFICATIONS


Model Number	OHI25-60_180
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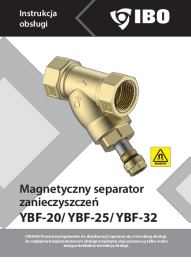


Brand	IBO
Voltage	230 Volts
Frequency	50 Hz
Power Consumption (3 levels)	I: 46 W; II: 63 W; III: 93 W
Max Flow Rate (3 levels)	I: 22 l/min; II: 38 l/min; III: 55 l/min
Max Head (3 levels)	I: 3 m; II: 5 m; III: 6 m
Protection Type	IP44
Max Operating Pressure	10 bar
Fluid Temperature Range	+2°C to +110°C
Installation Length	180 mm
Connection Diameter	1 1/2" / 1"
Materials	Ceramic shaft, Graphite radial bearing, Stainless steel bearing plate and rear pot, Grey cast iron pump housing
Manufacturer	4U-Onlinehandel
Package Dimensions	20 x 14.2 x 13.8 cm
Weight	2.63 kg
International Article Code	05902944507971

8. WARRANTY AND SUPPORT

Information regarding the product warranty is not provided in the available data. For warranty claims, technical support, or spare parts inquiries, please contact the original seller or the manufacturer, 4U-Onlinehandel, directly. Keep your purchase receipt as proof of purchase.

Related Documents - OHI25-60_180

	<p>IBO OHI / OHI MAX Circulation Pump Instruction Manual</p> <p>Comprehensive instruction manual for IBO OHI and OHI MAX series circulation pumps, covering safety, installation, operation, technical specifications, and troubleshooting. Includes EC declaration of conformity and warranty information.</p>
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	<p>IBF-02 Magnetic Separator - Operating Manual and Installation Guide</p> <p>Comprehensive operating manual and installation guide for the IBO IFB-02 Magnetic Separator, detailing its features, technical specifications, installation procedures, maintenance, and safety precautions for central heating systems.</p>
	<p>IBO SOLAR Pressure Vessels - Instruction Manual</p> <p>Comprehensive instruction manual for IBO SOLAR diaphragm pressure vessels, covering installation, operation, maintenance, technical specifications, and safety guidelines for solar and hot water systems.</p>
	<p>IBO Magnetyczny Separator Zanieczyszczeń YBF-20/25/32 - Instrukcja Obsługi i Montażu</p> <p>Kompleksowa instrukcja obsługi i montażu dla magnetycznych separatorów zanieczyszczeń IBO serii YBF-20, YBF-25, YBF-32. Dokument zawiera szczegółowe informacje dotyczące zasady działania, danych technicznych, środków ostrożności, prawidłowej instalacji, konserwacji oraz warunków gwarancji.</p>
	<p>Instrukcja obsługi pompy zatapialnej IBO DRAIN 400</p> <p>Szczegółowa instrukcja obsługi dla pompy zatapialnej IBO DRAIN 400. Zawiera informacje o instalacji, bezpiecznym użytkowaniu, konserwacji i rozwiązywaniu problemów.</p>
	<p>IBO IVR 10: Instrukcja obsługi sterownika pomp</p> <p>Instrukcja obsługi dla inteligentnego sterownika pomp IBO IVR 10. Przewodnik zawiera szczegółowe informacje dotyczące instalacji, bezpiecznego użytkowania, danych technicznych, diagnostyki błędów i konserwacji, przeznaczony do zastosowań przemysłowych.</p>