IBO MAGI 2

IBO Magi 2 25-80/180 High-Efficiency Circulation Pump User Manual

Model: MAGI 2

1. Introduction and Overview

The IBO MAGI 2 25-80/180 is a high-efficiency circulation pump designed for various heating and circulation systems. It features a permanent magnet motor and a differential pressure regulator that automatically and continuously adjusts the pump's power to the actual needs of the system, ensuring optimal performance and energy efficiency.
The pump's control panel is conveniently located on top of the motor, providing easy access for users. The current energy consumption is displayed on the dial, allowing for real-time monitoring.
This pump is suitable for:

- Constant temperature heating systems with variable flow.
- Heating systems with variable pipe temperature.
- Heating systems with night mode.
- Air conditioning systems.
- Industrial circulation systems.
- Residential central heating and hot water systems.

Its robust motor construction and smooth bearings contribute to a reliable product designed for long-term operation.

2. Product Components

The IBO MAGI 2 25-80/180 circulation pump package typically includes the following components:

- IBO MAGI 2 Circulation Pump
- Set of screw fittings
- Seals
- Power cord with plug



Figure 2.1: IBO Magi 2 25-80/180 Circulation Pump. This image shows the overall view of the pump unit.



Figure 2.2: The IBO Magi 2 25-80/180 pump shown with its packaging, including the power cord and screw fittings.



Figure 2.3: The power cord with a plug, supplied for connecting the pump to the electrical supply.



Figure 2.4: The set of screw fittings and seals included for secure installation of the pump into the piping system.

3. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your IBO MAGI 2 circulation pump. It is recommended that installation be performed by a qualified professional.

3.1 Unpacking and Inspection

1. Carefully unpack all components and verify that all items listed in Section 2 are present and undamaged.
2. Inspect the pump for any visible signs of damage that may have occurred during transit.

3.2 Mechanical Installation

1. Ensure the installation location is stable, dry, and protected from extreme temperatures.
2. Mount the pump in the designated position within your heating or circulation system. The pump is designed with a 180 mm spacing between bars.
3. Use the provided screw fittings and seals to connect the pump to the piping system. Ensure all connections are tight and leak-free. The connection diameter is 1 1/2" - 1".

3.3 Electrical Connection

1. Connect the provided power cord to the pump's electrical input.
2. Plug the power cord into a suitable 230 V/50 Hz electrical outlet. Ensure the power supply matches the pump's requirements.
3. The pump's protection rating is IP44, indicating protection against solid objects larger than 1mm and splashing water from any direction.

4. Operating Modes

The IBO MAGI 2 circulation pump offers several operating modes, allowing you to optimize its performance for different system requirements. The control panel, located on top of the motor, facilitates mode selection and displays current energy consumption.





Figure 4.1: The control panel of the IBO Magi 2 pump, showing the display and mode selection buttons.

Available Operating Modes:

- **Automatic Mode (AUTO):** This mode automatically selects the pump parameters based on the installation's requirements, providing adaptive and energy-efficient operation.
- **Proportional Pressure Curves (BL1, BL2):** In these modes, the pump's head (pressure) decreases proportionally with increasing flow rate. BL1 and BL2 represent different curve characteristics.
- **Constant Pressure Curves (HD1, HD2):** These modes maintain a constant pressure regardless of the flow rate, suitable for systems requiring stable pressure. HD1 and HD2 represent different constant pressure levels.
- **Constant Speed Modes (HS1, HS2, HS3):** The pump operates at a fixed speed, providing a constant flow rate. HS1, HS2, and HS3 correspond to different constant speed settings.

Refer to the control panel and the specific icons for selecting the desired operating mode. The display will show the current energy consumption in Watts (W).

5. Maintenance

The IBO MAGI 2 circulation pump is designed for high reliability and long service life, thanks to its robust motor construction and smooth bearings. Regular maintenance is minimal but essential to ensure continued optimal performance.

5.1 Routine Checks

- **Visual Inspection:** Periodically check the pump and connections for any signs of leaks, corrosion, or physical damage.
- **Noise Level:** Listen for any unusual noises during operation, which could indicate a potential issue.
- **Performance Monitoring:** Observe the system's heating or circulation performance. Any significant drop in efficiency might suggest a pump issue.

5.2 Cleaning

Ensure the pump's exterior is kept clean and free from dust or debris to prevent overheating and maintain proper ventilation.

5.3 Winterization (if applicable)

If the pump is installed in an area prone to freezing temperatures and the system is shut down for an extended period, ensure the system is properly drained or protected with antifreeze to prevent damage.
For any complex maintenance or repairs, it is strongly recommended to contact a qualified service technician.

6. Troubleshooting

This section provides guidance for common issues you might encounter with your IBO MAGI 2 circulation pump. For problems not listed here or if solutions do not resolve the issue, contact a qualified technician.

6.1 Pump Not Starting or Operating

- **Check Power Supply:** Ensure the pump is properly plugged into a functional electrical outlet and that there is power to the circuit.
- **Verify Connections:** Check all electrical connections for tightness and proper seating.
- **Inspect for Obstructions:** Ensure there are no physical obstructions preventing the impeller from turning.

6.2 Reduced Flow or Pressure

- **Check System Pressure:** Verify that the overall system pressure is within the recommended operating range.
- **Inspect for Air in System:** Air pockets in the system can reduce flow. Bleed the system if necessary.
- **Filter Clogs:** If your system has filters, check them for clogs and clean or replace as needed.
- **Operating Mode:** Ensure the pump is set to an appropriate operating mode for the system's current demands.

6.3 Unusual Noise During Operation

- **Air in System:** Gurgling or bubbling noises often indicate air in the system. Bleed the system.
- **Cavitation:** A rattling or grinding noise might indicate cavitation due to insufficient inlet pressure. Check system pressure and ensure proper water levels.
- **Loose Mounting:** Ensure the pump is securely mounted and not vibrating against other components.

7. Specifications

Technical specifications for the IBO MAGI 2 25-80/180 High-Efficiency Circulation Pump:

Specification	Value
Model Number	MAGI 2

Specification	Value
Rated Voltage	230 V / 50 Hz
Power Consumption	5 - 45 W
Max. Flow Rate	55 Liters per minute
Max. Delivery Head	4 Meters
Max. Operating Pressure	10 bar
Operating Temperature	+2 °C to +110 °C
Spacing Between Bars	180 mm
Connection Diameter	1 1/2" - 1"
Protection Index	IP44
Dimensions (L x W x H)	20 x 20 x 15 cm
Manufacturer	PHU Dambat

8. Warranty and Support

For information regarding the warranty period and terms for your IBO MAGI 2 circulation pump, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for warranty claims.

If you require technical assistance, spare parts, or professional service, please contact the authorized distributor or the manufacturer's customer support. Contact details are typically found in your purchase documentation or on the manufacturer's official website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question