

IBO MAGI 2

IBO Magi 2 25-60/180 High-Efficiency Circulation Pump User Manual

Model: MAGI 2 | Brand: IBO

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your IBO Magi 2 25-60/180 High-Efficiency Circulation Pump. Please read these instructions carefully before installation and use, and keep them for future reference.

2. PRODUCT OVERVIEW

The IBO Magi 2 25-60/180 is a high-efficiency centrifugal 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 meet the system's actual demands. The control panel is conveniently located on top of the motor, displaying current power consumption for easy monitoring. The MAGI series circulation pump is ideally suited for the following systems:

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



Figure 2.1: General view of the IBO Magi 2 25-60/180 Circulation Pump.

3. COMPONENTS INCLUDED

Upon unpacking, ensure all the following components are present:

- IBO Magi 2 25-60/180 Circulation Pump
- Screw fitting kit
- Gaskets
- Power cable with plug



Figure 3.1: Included screw fittings and gaskets.



Figure 3.2: Power cable with plug.

4. SETUP AND INSTALLATION

Installation should be performed by a qualified professional in accordance with local regulations and safety standards.

4.1. Mounting the Pump

1. Ensure the system is depressurized and drained before installation.
2. Mount the pump in a horizontal position with the motor shaft horizontal.
3. Use the provided screw fittings and gaskets to connect the pump to the piping system. Ensure a watertight seal.
4. Observe the flow direction indicated by the arrow on the pump housing.

4.2. Electrical Connection

1. Connect the provided power cable to the pump's electrical terminal.
2. Ensure the power supply matches the pump's rated voltage (230 V/50 Hz).
3. Plug the power cable into a suitable grounded electrical outlet.
4. Verify all electrical connections are secure and insulated.

5. OPERATING MODES

The IBO MAGI 2 circulation pump offers several operating modes, accessible via the control panel on top of the motor. The current power consumption is displayed on the dial.



Figure 5.1: Control panel displaying operating modes and power consumption.

Available operating modes:

- **Automatic Mode:** Automatically selects pump parameters based on installation requirements.
- **Proportional Pressure Curves:** BL1, BL2 (adjusts head proportionally to flow).
- **Constant Pressure Curves:** HD1, HD2 (maintains a constant differential pressure).
- **Constant Speed Characteristics:** HS1, HS2, HS3 (operates at a fixed speed).

Refer to the control panel interface for selecting and adjusting these modes according to your system's needs.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your circulation pump. Always disconnect the pump from the power supply before performing any maintenance.

6.1. General Inspection

- Periodically check for any leaks around the pump and connections.
- Inspect the power cable for signs of damage or wear.
- Ensure the pump is free from excessive dirt or debris.

6.2. Cleaning

If necessary, clean the exterior of the pump with a damp cloth. Do not use abrasive cleaners or solvents.

6.3. System Flushing

Ensure the heating or circulation system is regularly flushed to prevent the buildup of sludge and debris, which can affect pump performance.

7. TROUBLESHOOTING

Before contacting technical support, review the following common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump does not start	No power supply	Check power connection, fuse, and circuit breaker.
Pump runs but no flow	Air in the system	Bleed the system to remove air.
Reduced flow or pressure	Clogged impeller or piping	Inspect and clean the impeller and system piping.
Unusual noise	Air in the pump or system	Bleed the system. Check for cavitation.
Leakage	Loose connections or damaged gaskets	Tighten connections or replace gaskets.

If the problem persists after attempting these solutions, please contact qualified service personnel.

8. SPECIFICATIONS

Parameter	Value
Model	MAGI 2 25-60/180
Rated Voltage	230 V / 50 Hz
Power Consumption	5-45 W
Max Flow Rate	55 Liters per minute
Max Head (Height of lift)	6 meters
Max Operating Pressure	10 bar
Operating Temperature	+2 °C / +110 °C
Port-to-Port Distance	180 mm
Connection Diameter	1 1/2" - 1"
Protection Index	IP44
Dimensions (L x W x H)	20 x 20 x 15 cm
Weight	2.98 kg
Manufacturer	PHU Dambat

9. WARRANTY INFORMATION

This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms, conditions, and duration. Keep your proof of purchase for any warranty claims.

10. SUPPORT AND CONTACT

For technical assistance, spare parts, or further inquiries, please contact your retailer or the manufacturer directly. Ensure you have your product model number (MAGI 2) and purchase details available when seeking support.

Manufacturer: PHU Dambat

Website: www.dambat.pl