IBO AMG 25-80/180

IBO AMG 25-80/180 Electronic Circulation Pump User Manual

Model: AMG 25-80/180

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your IBO AMG 25-80/180 electronic circulation pump. This energy-efficient pump is designed for use in heating systems, ensuring optimal circulation of the pumped liquid. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

Figure 1: The IBO AMG 25-80/180 electronic circulation pump, showcasing its compact design and integrated power cord.

2. Important Safety Instructions

Failure to follow these safety instructions may result in electric shock, fire, or serious injury. Keep this manual for future reference.

- **Read the manual carefully:** Ensure you understand all instructions before operating the pump.
- **Do not run dry:** Never operate the pump without water. Running the pump dry will cause severe damage and void the warranty.

- **Proper grounding:** Ensure the pump is properly grounded before connecting it to a power source. This is critical for electrical safety.
- **Electrical connection:** All electrical work must be performed by a qualified electrician and comply with local regulations.
- **Temperature limits:** Do not exceed the specified temperature range for the pumped liquid (2°C to +110°C).
- **Protection class:** The pump has an IP44 protection class. Protect it from direct water spray and extreme weather conditions.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

Figure 2: Side view of the pump highlighting the warning label, which emphasizes reading the manual, avoiding dry operation, and ensuring proper grounding.

3. Technical Specifications

Feature	Specification
Model	AMG 25-80/180
Operating Modes	8
Protection Class	IP 44
Liquid Temperature Range	2°C to +110°C
Motor Power	65 W
Maximum Lifting Height	8 meters
Maximum Flow Rate	65 Litres Per Minute
Product Dimensions (L x W x H)	20 x 10 x 15 cm
Weight	2.8 kg
Material	Plastic (housing), Metal (pump body)
Power Source Type	Electric component with cord

Figure 3: A close-up view of the pump's product label, displaying model number, power, and other technical data.

4. Installation

Proper installation is crucial for the pump's performance and safety. If you are unsure about any step, consult a qualified professional.

4.1 Unpacking and Inspection

- Carefully remove the pump and all accessories from the packaging.
- Inspect the pump for any visible damage that may have occurred during transit. Do not install a damaged pump.
- Verify that all components are present, including the pump unit, power cord, and any included gaskets or fittings.


PP CP
AUTO
1 2 3
AMG 25-80/180
ENERGOOSZCZĘDNA POMPA OBIEGOWA DO CO
EEI≤0.21, Tf=95°C, IP44
220~240V 50/60Hz
IBO
PROFESSIONAL
WARNING
1.Be sure to read manual carefully before operating the pump. 2.Do not run pump dry without water. 3.Be sure that the pump is properly grounded before operating.

Figure 4: The IBO circulation pump displayed with its accompanying gaskets and fittings, essential for installation.

Figure 5: A detailed view of the gaskets and fittings provided with the pump, used to ensure a watertight seal during installation.

4.2 Mounting the Pump

- Mount the pump in a horizontal position with the motor shaft horizontal. This ensures proper lubrication and cooling.
- Ensure there is sufficient space around the pump for ventilation and future maintenance.
- Use appropriate pipe fittings and sealants to connect the pump to the heating system. Ensure all connections are tight to prevent leaks.

Figure 6: Front view of the IBO circulation pump, showing the inlet and outlet connections.

4.3 Electrical Connection

- Connect the pump to a grounded electrical outlet. The power supply should match the pump's specifications (220-240V).
- Ensure the electrical circuit is protected by a residual current device (RCD) for added safety.
- Verify that the pump is properly grounded before applying power.

5. Operation

The IBO AMG 25-80/180 pump features 8 operating modes, including an intelligent Auto-Mode, to optimize energy consumption and system performance.

5.1 Initial Start-up

1. Before starting, ensure the heating system is filled with water and properly vented to remove any air. Running the pump with air can cause damage.
2. Once the system is filled and vented, connect the pump to the power supply.
3. The pump will typically perform a self-test upon initial power-up.

5.2 Selecting Operating Modes

The pump's control panel allows you to select from 8 different operating modes. These modes are designed to adapt to various system requirements and optimize energy efficiency.

- **Auto-Mode:** This intelligent mode automatically adjusts pump performance based on system demand, detecting when heating is running and optimizing flow. This is often the most energy-efficient setting.
- **Fixed Speed Modes:** Several fixed speed settings are available for constant flow applications.
- **Proportional Pressure Modes:** Adjusts pump head proportionally to flow rate, suitable for systems with varying demands.
- **Constant Pressure Modes:** Maintains a constant pressure difference regardless of flow rate.

Refer to the markings on the pump's control panel for specific mode indicators and selection buttons. Press the mode button to cycle through the available settings until the desired mode is selected.

Figure 7: Angled view of the IBO circulation pump, showing the control panel with indicators for different operating modes (PP, CP, AUTO) and speed settings (1, 2, 3).

6. Maintenance

Regular maintenance ensures the long-term reliability and efficiency of your circulation pump. Always disconnect the pump from the power supply before performing any maintenance.

6.1 General Checks

- **Visual Inspection:** Periodically check the pump for any signs of leaks, corrosion, or damage to the casing or power cord.
- **Noise Levels:** Listen for unusual noises during operation, which could indicate air in the system or a mechanical issue.
- **System Pressure:** Ensure the heating system maintains adequate pressure as per your system's requirements.

6.2 Cleaning

- Wipe the exterior of the pump with a damp cloth to remove dust and dirt. Do not use abrasive cleaners or solvents.
- Ensure ventilation openings are clear of obstructions.

6.3 Winterization (if applicable)

If the pump is installed in an area prone to freezing and the heating system will be shut down for an extended period, ensure the system is drained to prevent damage from freezing water.

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; Blown fuse/tripped breaker; Motor blockage	Check power connection; Reset breaker/replace fuse; Disconnect power and check for impeller blockage (consult professional if unsure).
No or insufficient flow	Air in the system; Closed valves; Blockage in pipes/pump; Incorrect operating mode	Vent the system; Open all relevant valves; Check for blockages; Select appropriate operating mode.
Pump is noisy	Air in the system; Cavitation; Foreign objects in pump; Worn bearings	Vent the system thoroughly; Ensure adequate system pressure; Disconnect power and inspect impeller; Contact service if noise persists.
Pump leaks	Loose connections; Damaged gaskets/seals	Tighten pipe connections; Replace damaged gaskets (ensure power is off and system is drained).

8. Warranty Information

Warranty terms and conditions for the IBO AMG 25-80/180 electronic circulation pump are typically provided at the point of purchase or included with the product packaging. Please retain your proof of purchase for warranty claims. For detailed information regarding the warranty period and coverage, refer to the documentation supplied by your retailer or contact IBO customer support directly.

9. Customer Support

If you encounter issues that cannot be resolved using the troubleshooting guide, or require further assistance, please contact IBO customer support or your authorized dealer. When contacting support, please have your pump's model number (AMG 25-80/180) and purchase details readily available.
For the most up-to-date contact information, please visit the official IBO website.