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Biral PrimAX 32-4 180

Biral PrimAX 32-4 180 Heating Circulation Pump User Manual

Model: PrimAX 32-4 180 | Article No.: 2205450150

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Biral PrimAX 32-4 180 heating circulation pump. Please read this manual thoroughly before installation and operation. Keep it for future reference.

The Biral PrimAX 32-4 180 is a high-efficiency heating circulation pump designed for use in heating systems. It features a compact design and comes with a thermal insulation shell to minimize heat loss.



Image 1.1: Biral PrimAX 32-4 180 Heating Circulation Pump with its thermal insulation shell. The pump features a robust grey cast iron body and a black motor housing.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- Installation and maintenance must only be performed by qualified personnel in accordance with local regulations and standards.
- Before any work on the pump, ensure the power supply is disconnected and secured against accidental reconnection.
- The pump operates with electrical voltage (230V). Avoid contact with live parts.
- Do not operate the pump if it is damaged or if the power cable is frayed.
- Ensure proper grounding of the pump.
- Protect the pump from freezing temperatures.

- Do not use the pump for pumping flammable or explosive liquids.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- Biral PrimAX 32-4 180 Heating Circulation Pump
- Thermal Insulation Shell (pre-installed or separate)
- Installation and Operating Instructions (this manual)
- Connection accessories (gaskets, electrical connectors)



Image 3.1: Various connection accessories including electrical connectors and sealing gaskets, typically supplied with the pump for installation.

4. SETUP AND INSTALLATION

IMPORTANT: Installation must be carried out by a qualified heating engineer or electrician.

1. **Preparation:** Ensure the heating system is depressurized and drained. Close all necessary valves.
2. **Mounting Position:** Install the pump in a horizontal pipe section with the motor shaft horizontal. Ensure sufficient space for maintenance and ventilation.

3. **Pipe Connection:** Connect the pump to the heating pipes using appropriate fittings. Ensure gaskets are correctly seated to prevent leaks. The pump has a length of 180 mm.
4. **Electrical Connection:** Connect the pump to a 230V, 50Hz power supply. Follow the wiring diagram provided with the pump and ensure proper grounding. Use the supplied electrical connectors.
5. **Filling the System:** After installation, slowly refill the heating system, ensuring all air is vented from the pump and pipes.
6. **Insulation Shell:** If not pre-installed, attach the thermal insulation shell around the pump body to improve energy efficiency.

5. OPERATING INSTRUCTIONS

The Biral PrimAX 32-4 180 pump features an intuitive control panel for adjusting its operating mode and performance.



Image 5.1: Close-up of the Biral PrimAX 32-4 180 control panel, showing buttons for adjustment, a digital display for power consumption (W), and indicators for operating modes and head (H) settings.

1. **Power On:** Once the system is filled and vented, switch on the power supply to the pump. The display will illuminate.
2. **Mode Selection:** Use the mode button (often indicated by '||▶') to cycle through available operating modes (e.g., constant pressure, proportional pressure, fixed speed). Refer to the pump's specific

documentation for detailed mode descriptions.

3. **Performance Adjustment:** Use the 'Up' (▲) and 'Down' (▼) buttons to adjust the pump's performance within the selected mode. The display may show the current power consumption in Watts (W) or the selected head setting (H).
4. **Monitoring:** The display provides real-time information on the pump's status and power consumption. Green indicators typically signify normal operation.

6. MAINTENANCE

The Biral PrimAX 32-4 180 is designed for low maintenance. However, regular checks can ensure optimal performance and longevity.

- **Annual Inspection:** Have a qualified technician inspect the pump annually for signs of wear, leaks, or unusual noises.
- **System Water Quality:** Ensure the heating system water quality is maintained according to manufacturer recommendations to prevent corrosion and scaling.
- **Cleaning:** Keep the exterior of the pump and the insulation shell clean. Do not use abrasive cleaners.
- **Venting:** Periodically check and vent the heating system to remove any trapped air, which can affect pump performance and cause noise.

7. TROUBLESHOOTING

Before contacting support, review the following common issues and solutions:

Problem	Possible Cause	Solution
Pump not running	No power supply Air lock in pump Motor blocked	Check power connection and circuit breaker Vent the pump and system Contact qualified service personnel
Noisy operation	Air in system Cavitation Improper mounting	Vent the system thoroughly Adjust pump settings or system pressure Check mounting for vibrations
Insufficient heating	Pump set too low System blockage Air in system	Increase pump performance setting Check system for blockages Vent the system
Leakage	Loose connections Damaged gaskets	Tighten connections Replace gaskets (by qualified personnel)

If the problem persists after attempting these solutions, please contact a qualified service technician or Biral customer support.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	PrimAX 32-4 180
Manufacturer	Biral
Application	Heating Circulation
Voltage	230 V
Frequency	50 Hz
Length	180 mm
Insulation Shell	Included
Package Dimensions	19.4 x 17.6 x 12.6 cm
Weight	2.3 kg
Article Number	2205450150

9. WARRANTY AND SUPPORT

Biral products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Biral website. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or service, please contact your local Biral dealer or authorized service center. You can find contact information on the official Biral website: www.biral.ch