

Wilo Atmos Pico 25/1-6-130

Wilo Atmos Pico 25/1-6-130 Circulator User Manual

High-Efficiency Circulator Pump for Heating and Air Conditioning Systems

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Wilo Atmos Pico 25/1-6-130 high-efficiency circulator pump. The Atmos Pico is designed for heating and air conditioning systems, featuring integrated differential pressure control and ECM technology for optimal performance and energy efficiency.

Please read this manual thoroughly before installation and operation to ensure proper use and to prevent potential hazards or damage to the unit.

2. SAFETY INFORMATION

General Safety:

- Installation and maintenance must be performed by qualified personnel only.
- Always disconnect power before performing any work on the pump.
- Ensure the electrical supply matches the pump's specifications.
- Protect the pump from freezing temperatures.
- Do not operate the pump dry.

Electrical Safety:

- All electrical connections must comply with local regulations and standards.
- Ensure proper grounding of the pump.
- Avoid contact with live electrical components.

3. PRODUCT OVERVIEW

The Wilo Atmos Pico 25/1-6-130 is a high-efficiency wet-rotor circulator pump designed for residential and

light commercial heating and air conditioning systems. It features advanced ECM technology for energy savings and integrated electronic control for automatic performance adaptation based on differential pressure.

Key Features:

- **High Efficiency:** Utilizes ECM (Electronically Commutated Motor) technology for significant energy savings.
- **Integrated Differential Pressure Control:** Automatically adjusts performance to maintain desired differential pressure.
- **User-Friendly Interface:** LED display and "Green Button" technology for intuitive operation and setting adjustments.
- **Compact Design:** Facilitates easy installation and replacement, especially in confined spaces.
- **Adaptable Electrical Connections:** Wilo-Connector positioned laterally to reduce collision risk during installation.
- **Self-Protected Motor:** Ensures durability and reliable operation.



Image of the Wilo Atmos Pico 25/1-6-130 high-efficiency circulator pump, showing its compact design and connection points.

4. INSTALLATION

The compact design of the Atmos Pico simplifies installation. Follow these general guidelines:

1. **Mounting Position:** Install the pump in a horizontal position with the motor shaft horizontal. Ensure adequate space for ventilation and maintenance.
2. **Pipe Connections:** Connect the pump to the heating or air conditioning system piping using appropriate threaded fittings. Ensure all connections are watertight.
3. **Electrical Connection:**
 - Ensure the power supply is disconnected before wiring.
 - Connect the power cable to the Wilo-Connector. The lateral positioning of the connector reduces the risk of collision with valves during installation.
 - Follow the wiring diagram provided with the pump for correct connections (Live, Neutral, Earth).
4. **System Filling and Venting:** After installation, fill the system with water and thoroughly vent the pump and the entire system to remove any trapped air. Do not operate the pump until it is fully vented and filled with water.

5. OPERATING INSTRUCTIONS

The Atmos Pico features an intuitive LED display and "Green Button" technology for easy operation.

1. **Power On:** Once installed and the system is filled, switch on the power supply to the pump. The LED display will illuminate.
2. **Green Button Technology:** The "Green Button" is the primary control for setting the pump's operating mode and characteristic curves.
 - **Mode Selection:** Press the Green Button to cycle through available operating modes (e.g., constant differential pressure, variable differential pressure, constant speed). The selected mode will be indicated on the LED display.
 - **Performance Adjustment:** Within each mode, further presses or a long press of the Green Button may allow adjustment of the differential pressure (prevalence) or speed settings. The LED display will show the current setting.
3. **Automatic Adaptation:** The integrated electronic control automatically adapts the pump's performance to the system's requirements based on the selected differential pressure setting.
4. **Monitoring:** The LED display provides continuous feedback on the selected operating mode and current performance.

Refer to the detailed operating instructions provided with the physical product for specific characteristic curves and advanced settings.

6. MAINTENANCE

The Wilo Atmos Pico is designed for reliable, low-maintenance operation. Regular checks can help ensure its longevity and efficiency.

- **Annual Inspection:** It is recommended to have the pump inspected annually by a qualified technician.
- **System Water Quality:** Ensure the system water quality is maintained according to manufacturer guidelines to prevent corrosion and deposits.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris to ensure proper heat dissipation.
- **Venting:** Periodically check and vent the system if unusual noises or reduced performance are observed.
- **Frost Protection:** If the system is shut down during cold periods, ensure adequate frost protection measures are in place to prevent damage to the pump.

Always disconnect the power supply before performing any maintenance tasks.

7. TROUBLESHOOTING

This section provides solutions to common issues. For complex problems, contact qualified service personnel.

Common Issues and Solutions:

- **Pump Not Running:**
 - Check power supply and circuit breaker.
 - Ensure electrical connections are secure.
 - Verify the pump is not air-locked; vent the system.
- **Insufficient Flow/Pressure:**

- Check system pressure and ensure it is within operating limits.
 - Verify the pump's operating mode and differential pressure setting. Adjust if necessary.
 - Check for air in the system; vent thoroughly.
 - Inspect for blockages in the piping or pump.
- **Unusual Noises (e.g., Gurgling, Vibrating):**
 - Indicates air in the system; vent the pump and system.
 - Check for loose mounting or pipe connections.
 - If noise persists, contact a technician.

8. SPECIFICATIONS

Model	Atmos Pico 25/1-6-130
Product Code	4232693
Type	High-Efficiency Wet-Rotor Circulator Pump
Application	Heating and Air Conditioning Systems
Manufacturer	Wilo
Motor Technology	ECM (Electronically Commutated Motor)
Control	Integrated Electronic Control with Differential Pressure Adjustment

For detailed technical data, refer to the product datasheet or contact Wilo customer support.

9. WARRANTY AND SUPPORT

Warranty Information:

Warranty terms and conditions for the Wilo Atmos Pico 25/1-6-130 are provided by the manufacturer, Wilo, and the seller at the time of purchase. Please retain your proof of purchase for warranty claims. For specific warranty details, refer to the documentation included with your product or visit the official Wilo website.

Customer Support:

For technical assistance, spare parts, or service inquiries, please contact your authorized Wilo dealer or visit the official Wilo website for contact information in your region. When contacting support, please have your product model (Atmos Pico 25/1-6-130) and product code (4232693) readily available.