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Wilo 4117301

Wilo Stratos ECO 16-Foot High Efficiency Circulating Pump User Manual

Model: 4117301

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Wilo Stratos ECO 16-Foot High Efficiency Circulating Pump, Model 4117301. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage or injury.

SAFETY INFORMATION

Always adhere to local regulations and safety standards during installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply is disconnected before any installation, maintenance, or repair work.
- Installation and electrical connections must be performed by qualified personnel only.
- Do not operate the pump if it is damaged or if the electrical connections are exposed.
- This pump is designed for residential closed-loop water heating systems. It **is not approved for domestic hot water** applications.
- Protect the pump from freezing temperatures.

PRODUCT OVERVIEW

The Wilo Stratos ECO 16-Foot High Efficiency Circulating Pump is designed for efficient circulation in heating systems. Key features include:

- **High Efficiency:** Optimized for energy savings in circulating applications.
- **Temperature Range:** Operates effectively within a temperature range of 14°F to 230°F (-10°C to 110°C).
- **Performance:** Provides a maximum head of 16 feet with a maximum flow rate of 16 GPM.
- **Flexible Installation:** Features a flange that can be rotated 90 degrees for versatile mounting.
- **Easy Connection:** Equipped with quick-connect electrical terminals for simplified wiring.



Figure 1: Wilo Stratos ECO 16-Foot High Efficiency Circulating Pump. This image shows the pump from a slightly elevated side angle, highlighting its compact design, the green pump housing, and the grey and black control unit with a red dial and energy efficiency indicator.

INSTALLATION AND SETUP

Follow these steps for proper installation of the circulating pump:

1. **Mounting:** Securely mount the pump in the desired position within the closed-loop heating system. The flange can be rotated 90 degrees to accommodate various pipe orientations.
2. **Piping:** Connect the pump to the heating system piping. Ensure all connections are watertight and free of leaks.
3. **Electrical Connection:**
 - Ensure the main power supply is OFF.
 - Connect the 115-Volt power supply to the quick-connect electrical terminals. Refer to the wiring diagram provided with the pump for specific connections.
 - Ensure all electrical connections are secure and properly insulated.

- 4. **System Filling:** Fill the heating system with water and bleed any air from the system. Proper air removal is crucial for efficient pump operation.
- 5. **Initial Check:** Before powering on, double-check all connections and ensure the system is properly filled and free of air.

OPERATING INSTRUCTIONS

Once installed and connected, operate the pump as follows:

- 1. **Power On:** Restore power to the pump. The pump will typically start in an automatic mode.
- 2. **Mode Selection:** Use the control dial on the pump's interface to select the desired operating mode. The Stratos ECO series often features automatic adjustment to system requirements, but manual settings for constant pressure or proportional pressure may be available. Consult the markings on the control unit for specific options.
- 3. **Monitoring:** Observe the pump's operation and the system's performance. The integrated display or indicators will show the current operating status and energy consumption.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Wilo pump.

- **Annual Inspection:** Annually inspect the pump for any 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 scale buildup.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris. Do not use abrasive cleaners.
- **Air Bleeding:** Periodically check and bleed air from the heating system to prevent cavitation and ensure smooth operation.

TROUBLESHOOTING

If you encounter issues with your pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump not running	No power supply; Motor jammed; Electrical fault	Check power connection and circuit breaker; Consult a qualified technician for motor or electrical issues.
Pump making unusual noise	Air in system; Cavitation; Bearing wear	Bleed air from the system; Ensure adequate water pressure; Contact service if noise persists.
Insufficient flow/pressure	Air in system; Incorrect operating mode; Clogged impeller	Bleed air; Adjust operating mode; Inspect and clean impeller (power off first).

If the problem persists after attempting these solutions, contact Wilo customer support or a certified service technician.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Model Number	4117301
Brand	Wilo
Maximum Head	16 Feet
Maximum Flow Rate	16 GPM
Voltage	115-Volt
Temperature Range	14°F to 230°F (-10°C to 110°C)
Application	Residential closed-loop water heating systems (Not for domestic hot water)
Item Weight	3 kg 580 g
Package Dimensions	23.37 x 22.61 x 22.35 cm

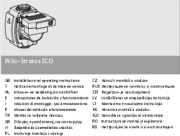
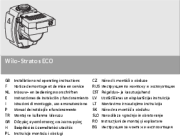
WARRANTY AND SUPPORT





The Wilo Stratos ECO 16-Foot High Efficiency Circulating Pump comes with a**3-Year Warranty**. For warranty claims, technical support, or service inquiries, please contact Wilo customer service. Ensure you have your model number (4117301) and purchase details available when contacting support.

For the most up-to-date contact information, please visit the official Wilo website or refer to the documentation included with your product.

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Related Documents - 4117301

	<p>Wilo-Stratos ECO Installation and Operating Instructions</p> <p>Comprehensive guide for the installation, operation, safety, and maintenance of the Wilo-Stratos ECO circulating pump. Includes technical specifications and troubleshooting tips.</p>
	<p>Wilo-Stratos ECO Installation and Operating Instructions</p> <p>Comprehensive installation and operating instructions for the Wilo-Stratos ECO circulating pump, covering safety, applications, technical data, installation, electrical connection, starting-up, maintenance, and troubleshooting. Includes product specifications and compliance information.</p>

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