

## Grundfos UPS26-99FC

# Grundfos UPS26-99FC 3-Speed Circulation Pump Instruction Manual

Model: UPS26-99FC

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Grundfos UPS26-99FC 3-Speed Circulation Pump. Please read these instructions carefully before installing or operating the pump to ensure proper function and to prevent injury or damage. The Grundfos UPS26-99FC is a robust, cast iron circulation pump designed for various hydronic heating and cooling applications. It features a 3-speed motor and an integrated flow check valve for reliable performance.

## 2. SAFETY INFORMATION

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**WARNING: Improper installation or operation can result in serious injury or death. Always follow local codes and regulations.**

- Ensure all electrical connections are made by a qualified electrician in accordance with local electrical codes.
- Always disconnect power to the pump before performing any installation, maintenance, or service.
- Do not operate the pump without liquid. Dry running can cause severe damage.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- The pump operates with hot water. Allow the system to cool before servicing to prevent burns.
- Ensure the pump is properly grounded.

## 3. PRODUCT OVERVIEW

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The Grundfos UPS26-99FC is a high-quality circulation pump designed for durability and efficiency. Key features include:

- **Cast Iron Construction:** Provides extended lifespan and protection against corrosion.

- **3-Speed Motor:** Allows for adjustment of flow rate to match system requirements.
- **Integrated Flow Check Valve:** Prevents backflow and simplifies installation.
- **Quiet Operation:** Engineered for minimal noise during use.
- **GF 15/26 Flange:** Standard connection for easy integration into existing systems.



Image: Grundfos UPS26-99FC 3-Speed Circulation Pump. This image shows the compact design of the pump with its cast iron housing and electrical connection box.

## 4. SETUP AND INSTALLATION

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**It is highly recommended that installation be performed by a qualified professional.**

1. **System Preparation:** Ensure the system is drained and depressurized. Flush the system to remove any debris that could damage the pump.
2. **Mounting Position:** Install the pump in a horizontal position with the motor shaft horizontal. Ensure adequate space for maintenance and ventilation. The integrated check valve should be oriented correctly for flow direction.
3. **Pipe Connections:** Connect the pump to the piping using appropriate flanges and gaskets. Ensure connections are watertight and do not overtighten.
4. **Electrical Connection:**
  - Disconnect main power supply before wiring.
  - Open the terminal box cover.
  - Connect the power supply wires (Line, Neutral, Ground) to the corresponding terminals inside the pump's terminal box. Refer to the wiring diagram inside the terminal box cover.
  - Ensure all connections are secure and properly insulated.
  - Close the terminal box cover securely to protect against moisture.
5. **Filling and Venting:** After installation, slowly fill the system with water. Vent any air from the pump and system by opening air vents until a steady stream of water emerges.

6. **Leak Check:** Inspect all connections for leaks once the system is pressurized.

## 5. OPERATING INSTRUCTIONS

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The Grundfos UPS26-99FC pump features a 3-speed selector switch, allowing you to adjust the pump's performance to suit your system's needs.

1. **Power On:** Once installation is complete and the system is filled and vented, restore power to the pump.
2. **Speed Selection:** Locate the speed selector switch on the motor housing. It typically has positions for I, II, and III (or 1, 2, 3) representing low, medium, and high speeds, respectively.
  - **Speed I (Low):** For systems requiring minimal flow or during periods of low demand.
  - **Speed II (Medium):** A balanced setting for general operation.
  - **Speed III (High):** For maximum flow and pressure, typically used during peak demand or for initial system purging.
3. **Monitoring:** Observe the system for proper circulation and listen for any unusual noises. Adjust the speed as necessary to achieve optimal system performance and energy efficiency.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your Grundfos pump.

- **Annual Inspection:** Annually inspect the pump for any signs of leaks, corrosion, or unusual wear. Check electrical connections for tightness.
- **System Water Quality:** Maintain good system water quality. Poor water quality can lead to scale buildup or corrosion, affecting pump performance.
- **Cleaning:** Keep the exterior of the pump clean and free from dust and debris to ensure proper motor cooling.
- **Lubrication:** The pump is designed with maintenance-free bearings and does not require external lubrication.
- **Winterization:** If the pump is installed in an unheated area, ensure the system is properly drained or protected with antifreeze to prevent freezing damage.

## 7. TROUBLESHOOTING

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This section provides solutions to common issues. For more complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Pump does not start/No power	No power supply	Check power supply to the pump.
	Blown fuse/tripped breaker	Check and replace fuse or reset breaker.
	Loose electrical connection	Verify all electrical connections are secure ( <i>ensure power is off first</i> ).

Problem	Possible Cause	Solution
Pump runs but no flow/low flow	Air in the system/pump Closed valves Clogged impeller/piping Incorrect speed setting	Vent air from the pump and system. Ensure all isolation valves are open. Inspect and clean impeller/piping ( <i>power off</i> ). Select a higher speed setting.
Pump is noisy/vibrates	Air in the system Cavitation (insufficient inlet pressure) Loose mounting Foreign object in pump	Vent air from the system. Increase inlet pressure or reduce flow. Check and tighten mounting bolts. Inspect pump for obstructions ( <i>power off</i> ).
Pump is leaking	Loose pipe connections Damaged gasket/seal	Tighten pipe connections. Replace damaged gaskets or seals ( <i>power off, system drained</i> ).

## 8. SPECIFICATIONS

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- **Model:** UPS26-99FC
- **Horsepower (HP):** 1/6 HP
- **Speeds:** 3-Speed
- **Material:** Cast Iron
- **Flange Type:** GF 15/26
- **Integrated Feature:** Check Valve
- **Power Source:** Corded Electric
- **Manufacturer:** Grundfos

## 9. WARRANTY AND SUPPORT

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Grundfos products are manufactured to high standards and typically come with a manufacturer's warranty covering defects in materials and workmanship. For specific warranty details, please refer to the warranty card included with your product or visit the official Grundfos website.

For technical support, spare parts, or service inquiries, please contact Grundfos customer service or an authorized Grundfos service center. Have your pump's model number (UPS26-99FC) and serial number ready when contacting support.

You can find more information and contact details on the official Grundfos website: [us.grundfos.com](https://us.grundfos.com)