

Grundfos UPS15-58FRC

Grundfos UPS15-58FRC 3-Speed Circulation Pump Instruction Manual

Model: UPS15-58FRC | Brand: Grundfos

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Grundfos UPS15-58FRC 3-Speed Circulation Pump. Please read these instructions carefully before installation and retain them for future reference.

1.1 Safety Information

WARNING: Electrical shock hazard. Ensure power is disconnected before installation or servicing. All electrical work must be performed by a qualified electrician in accordance with local codes and regulations.

CAUTION: Hot surfaces. The pump and connected piping may become hot during operation. Allow to cool before handling. Wear appropriate personal protective equipment.

- Do not operate the pump without liquid.
- Ensure proper grounding.
- Keep children and unauthorized personnel away from the pump during operation.

2. PRODUCT FEATURES

The Grundfos UPS15-58FRC is a robust and reliable circulation pump designed for various water circulation applications. Key features include:

- **Durable Cast Iron Construction:** Provides extended lifespan and protection against corrosion.
- **3-Speed Operation:** Allows for adjustment of flow rates to suit specific system requirements.
- **Integrated Flow Check Valve:** Limits water flow to a single direction, preventing backflow.
- **Whisper Quiet Operation:** Engineered for low noise levels during use.
- **Hardwire Electrical Connection:** Designed for direct connection to your electrical supply.



Figure 1: Grundfos UPS15-58FRC 3-Speed Circulation Pump. This image shows the compact design and cast iron housing of the pump.

3. SETUP AND INSTALLATION

Installation of the Grundfos UPS15-58FRC pump should be performed by a qualified professional to ensure proper function and adherence to all local plumbing and electrical codes.

3.1 Mounting

1. Choose a suitable location that allows for easy access for maintenance and is protected from freezing temperatures.
2. Ensure the pump is mounted securely to a stable surface, minimizing vibration.
3. The pump should be installed with the motor shaft in a horizontal position for optimal performance and longevity.

3.2 Plumbing Connections

1. Connect the pump to the piping system using appropriate fittings. Ensure all connections are watertight.
2. Observe the flow direction arrow on the pump housing to ensure correct installation relative to the system flow. The integrated check valve will enforce this direction.
3. Avoid placing excessive strain on the pump connections from misaligned piping.

3.3 Electrical Wiring

1. **WARNING:** Disconnect power at the main circuit breaker before beginning any electrical work.
2. Wire the pump according to the wiring diagram provided on the pump's terminal box cover and local electrical codes.
3. Ensure proper grounding to prevent electrical hazards.
4. Verify that the supply voltage matches the pump's requirements.

4. OPERATING INSTRUCTIONS

Once installed and filled with liquid, the Grundfos UPS15-58FRC pump is ready for operation.

4.1 Initial Start-up

1. Ensure the system is completely filled with water and properly vented to remove any air. Air in the system can damage the pump.
2. Restore power to the pump.
3. The pump will begin operating at the selected speed. Listen for unusual noises, which may indicate air in the system or an installation issue.

4.2 Speed Selection

The UPS15-58FRC features a 3-speed selector switch, typically located on the motor housing. Adjust the switch to select the desired speed (I, II, or III) based on your system's flow requirements. Higher speeds provide greater flow and head.

- **Speed I:** Lowest flow/head.
- **Speed II:** Medium flow/head.
- **Speed III:** Highest flow/head.

5. MAINTENANCE

The Grundfos UPS15-58FRC pump is designed for reliable operation with minimal maintenance. Regular inspections can help ensure its longevity.

- **Annual Inspection:** Check for any signs of leaks around the pump or piping connections.
- **Noise Check:** Listen for any unusual noises during operation, which could indicate air in the system or a mechanical issue.
- **Cleanliness:** Keep the pump and surrounding area clean and free from debris to ensure proper ventilation and prevent overheating.
- **Winterization:** If the pump is installed in an area subject to freezing temperatures, ensure the system is properly drained or protected from freezing when not in use.

No lubrication or other routine servicing of internal components is typically required for this sealed unit.

6. TROUBLESHOOTING

Before attempting any troubleshooting, ensure the power supply to the pump is disconnected. If you are unable to resolve an issue, contact a qualified technician.

Problem	Possible Cause	Solution
Pump does not start or run.	No power supply. Faulty wiring. Motor seized.	Check circuit breaker/fuse. Verify electrical connections. Contact a qualified technician.
Pump runs but no flow or low flow.	Air in the system. Closed valves. Pump installed against flow direction. Clogged impeller.	Vent the system. Open all necessary valves. Check pump installation direction. Contact a qualified technician.

Problem	Possible Cause	Solution
Unusual noise or vibration.	Air in the system. Loose mounting. Foreign object in pump. Worn bearings.	Vent the system. Tighten mounting bolts. Contact a qualified technician.
Leakage from pump.	Loose connections. Damaged seals.	Tighten pipe connections. Contact a qualified technician for seal replacement.

7. SPECIFICATIONS

Model:	UPS15-58FRC
Brand:	Grundfos
Horsepower (HP):	1/25 HP
Speeds:	3-Speed
Material:	Cast Iron
Power Source:	Corded Electric
Integrated Features:	Flow Check Valve

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official Grundfos website or the warranty card included with your product. For technical support or service inquiries, please contact Grundfos customer service directly. You can typically find contact information on the manufacturer's official website: www.grundfos.com