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1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Grundfos UP15-29SU/LC 59896776 circulator pump. The UP15-29SU/LC is a canned rotor pump designed for hot water circulation systems, featuring a maximum power input of 87W and durable stainless steel construction. It operates as an integral unit without a shaft seal, utilizing only two gaskets for sealing, and its bearings are lubricated by the pumped liquid.

Key characteristics include ceramic shaft and radial bearings, a carbon axial bearing, a stainless steel rotor can and bearing plate, and a corrosion-resistant composite (PES) impeller. The pump housing is made of stainless steel. The motor is a 1-phase type, requiring no additional motor protection.



This image shows the Grundfos UP15-29SU/LC 59896776 circulator pump, a compact unit with a red motor housing and stainless steel pump body, designed for hot water circulation systems.

2. SETUP AND INSTALLATION

2.1 Safety Precautions

- Ensure the power supply is disconnected before any installation or maintenance work.
- Wear appropriate personal protective equipment.
- Installation should be performed by a qualified professional in accordance with local codes and regulations.

2.2 Installation Guidelines

- The pump is designed for a 1-1/4" NPSM pipe connection with S.S. Union type connections. The port-to-port length is 5.87 inches.
- The maximum operating pressure is 145 psi.
- The maximum ambient temperature for operation is 104 °F (40 °C). When the liquid temperature is 176 °F (80 °C), the maximum ambient temperature is also 176 °F (80 °C).
- **Important:** For optimal performance and to prevent noise, the pump should be installed with the circular motor part oriented horizontally (laying on its side), not straight up. Refer to the manufacturer's detailed installation diagrams for correct orientation.
- Ensure all connections are secure and leak-free. It is recommended to use new washers during installation, as they may not be included with the pump.
- Avoid damaging the internal bushings during installation.

2.3 Electrical Connection

- The pump operates on 1 x 115 V, 60 Hz power supply.
- It has a 3-prong plug. Ensure a properly grounded 3-prong (two plus ground) receptacle is available or installed.
- The pump can be wired to a thermostatic controller for automated operation.

3. OPERATING INSTRUCTIONS

3.1 Initial Start-up

- After installation, ensure the system is filled with water and properly vented to remove any air.
- Restore power to the pump.
- The pump should start circulating water, often with a quiet hum.

3.2 Normal Operation

- The pump is designed for continuous hot water circulation, providing instant hot water at fixtures.
- The liquid temperature range for operation is 35.6 °F to 230 °F (2 °C to 110 °C).
- When connected to a thermostatic controller, the pump will operate according to the set temperature parameters, optimizing energy usage.
- The pump is known for its quiet operation. Any unusual noise should be investigated.

4. MAINTENANCE

The Grundfos UP15-29SU/LC pump is designed for minimal maintenance due to its canned rotor design and liquid-lubricated bearings. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Visual Inspection:** Regularly inspect the pump and connections for any signs of leaks, corrosion, or damage.
- **Noise Check:** Listen for any unusual noises during operation. A sudden increase in noise could indicate an

issue.

- **System Flushing:** If the water quality is poor, periodic flushing of the system may be beneficial to prevent buildup within the pump.
- **Bushing Protection:** When handling or reinstalling the pump, take care not to damage the internal bushings.

5. TROUBLESHOOTING

If you encounter issues with your Grundfos circulator pump, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Pump not running / No hot water circulation	No power, tripped breaker, faulty wiring, seized impeller.	Check power supply and circuit breaker. Verify electrical connections. Consult a professional if impeller is suspected to be seized.
Excessive noise during operation	Air in the system, incorrect installation orientation, worn bearings, debris in pump.	Vent the system to remove air. Verify pump orientation (circular motor part should be horizontal). Check for debris. If noise persists, professional inspection may be needed.
Leaking from pump or connections	Loose connections, damaged gaskets/washers, crack in housing.	Tighten connections. Replace old or damaged gaskets/washers. If housing is cracked, pump replacement is necessary.
Inconsistent hot water	Thermostatic controller malfunction, partial blockage, pump cycling incorrectly.	Check thermostatic controller settings and function. Inspect system for blockages.

If these steps do not resolve the issue, contact Grundfos customer support or a qualified plumbing professional.

6. SPECIFICATIONS

Feature	Detail
Model Number	UP15-29SU/LC 59896776
Manufacturer	Grundfos
Type	Canned Rotor Circulator Pump
Material (Pump Housing)	Stainless Steel (DIN W.-Nr. 1.4301, AISI 304)
Material (Impeller)	Composite, PES
Power Source	Corded Electric
Voltage	1 x 115 V
Main Frequency	60 Hz
Max. Power Input	87 W

Feature	Detail
Rated Power - P2	0.121 HP
Current in Speed 3	0.75 A
Capacitor Size - Run	10 μ F/180 V
Insulation Class (IEC 85)	F
Maximum Operating Pressure	145 psi
Liquid Temperature Range	35.6 .. 230 °F (2 .. 110 °C)
Maximum Ambient Temperature	104 °F (40 °C)
Pipe Connection	1 1/4" NPSM
Type of Connection	S.S. Union
Port-to-Port Length	5.87 inches
Item Weight	5.19 pounds
Product Dimensions	0.08 x 6 x 7 inches
Approvals	UL, CSA

7. WARRANTY INFORMATION

Specific warranty details for the Grundfos UP15-29SU/LC 59896776 circulator pump are typically provided with the product packaging or available on the official Grundfos website. Please refer to the documentation included with your purchase or visit us.grundfos.com for the most current warranty terms and conditions.

8. SUPPORT AND CONTACT

For technical assistance, spare parts, or further inquiries regarding your Grundfos circulator pump, please contact Grundfos customer support or visit their official website.

- **Official Website:** us.grundfos.com
- Refer to the Grundfos website for contact numbers and service center locations in your region.