

Grundfos 59896155

Grundfos UP15-42F SuperBrute Recirculating Pump Instruction Manual

Model: 59896155 | Brand: Grundfos

1. INTRODUCTION

The Grundfos UP15-42F SuperBrute Recirculating Pump is engineered for efficient circulation in heating systems, hot domestic water systems, and cooling/air-conditioning systems. This pump features a wet rotor design, ensuring quiet operation and minimal maintenance. Its robust construction and energy-efficient motor make it a reliable choice for continuous water circulation needs.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Ensure the power supply is disconnected before any installation or maintenance. The pump operates on 115 Volts. All electrical wiring must be performed by a qualified electrician and comply with local codes.
- **Temperature Limits:** Do not exceed the maximum fluid temperature of 230°F (110°C) or operate below the minimum fluid temperature of 36°F (2°C).
- **Pressure Limits:** The maximum working pressure for this pump is 145 PSI. Ensure your system's pressure does not exceed this limit.
- **Installation:** Installation should be performed by qualified personnel familiar with plumbing and electrical systems.
- **Hot Surfaces:** The pump housing may become hot during operation. Avoid direct contact.

3. PRODUCT OVERVIEW

Specification	Value
Manufacturer	Grundfos
Part Number	59896155
Item Model Number	59896155
Item Weight	6.92 pounds
Product Dimensions	5.25 x 4.19 x 6.5 inches
Size	Small
Color	Red
Style	Circulator
Material	Cast Iron
Power Source	Electric-powered
Voltage	115 Volts
Wattage	25 watts (Max. power input: 85 W)
Item Package Quantity	1
Flow Rate	0 - 15.5 US GPM
Head Range	1 - 15 feet (12" - 180")
Water Consumption	155 Gallons (per hour at max flow)
Maximum Fluid Temperature	230°F (110°C)
Minimum Fluid Temperature	36°F (2°C)
Maximum Working Pressure	145 PSI
Connection	Flange - (2) 3/4" diameter bolt holes
Certification	UL

5. INSTALLATION AND SETUP

Proper installation is crucial for the pump's performance and longevity. Refer to the detailed instructions provided with your pump packaging for specific diagrams and steps.

- Mounting Location:** Select a suitable location that allows for easy access for maintenance and ensures the motor shaft is horizontal. This orientation is critical for the wet rotor design.
- Piping Connections:** The pump requires a flange connection with two 3/4-inch diameter bolt holes. Flanges are not included and must be purchased separately. Ensure all connections are watertight using the two gaskets provided with the pump.
- Electrical Connection:** Connect the pump to a dedicated 115-volt, single-phase power supply. Ensure all wiring conforms to local electrical codes. The pump's terminal box cover is designed for secure wiring.
- System Filling:** After installation, fill the system with water and bleed any air from the pump and piping to prevent dry

running.

5. **Check Valve:** The pump includes a POM check valve. Ensure it is correctly oriented if removed during installation.

6. OPERATING INSTRUCTIONS

Once installed and properly connected, the Grundfos UP15-42F pump is designed for continuous operation within its specified parameters.

- **Power On:** Restore power to the pump. The pump will begin circulating water.
- **Temperature Monitoring:** Ensure the fluid temperature remains within the operational range of 36°F (2°C) to 230°F (110°C).
- **Pressure Monitoring:** Verify that the system pressure does not exceed 145 PSI.
- **Optional Controls:** For optimized energy savings, consider integrating an optional timer or aquastat. These devices can pre-program usage times or operate the pump by sensing water temperature, reducing unnecessary continuous operation.
- **Quiet Operation:** The wet rotor design ensures the pump operates quietly. Any unusual noises should be investigated.

7. MAINTENANCE

The Grundfos UP15-42F pump is designed to be maintenance-free due to its wet rotor design and durable materials. No routine lubrication or shaft seal replacement is required.

- **Periodic Inspection:** Periodically inspect the pump and connections for any signs of leaks, corrosion, or unusual wear.
- **Cleanliness:** Keep the area around the pump clean and free from debris to ensure proper ventilation.
- **Unusual Noises:** If the pump develops unusual noises or vibrations, consult the troubleshooting section or contact Grundfos support.

8. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact a qualified technician or Grundfos support.

- **Pump Does Not Start:**
 - Check if the power supply is connected and active.
 - Verify that the circuit breaker or fuse has not tripped.
 - Ensure all electrical connections are secure.
- **No Water Flow or Reduced Flow:**
 - Check for closed valves in the piping system.
 - Inspect for air in the system; bleed air if necessary.
 - Ensure the pump is not running dry.
 - Check for blockages in the impeller or piping.
- **Unusual Noise or Vibration:**
 - Air in the system can cause noise; bleed air.
 - Check for loose mounting bolts or connections.
 - Ensure the motor shaft is horizontal.

- If noise persists, the impeller or motor may require inspection by a professional.

- **Leaks:**

- Check all pipe connections and ensure gaskets are properly seated and tightened.
- Inspect the pump housing for cracks or damage.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Grundfos directly. Keep your purchase receipt and product model number (59896155) readily available when contacting support.

You can typically find contact information on the official Grundfos website or within the original product packaging.