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› [SHURFLO 4008-101-E65 3.0 Revolution Water Pump Instruction Manual](#)

**SHURFLO 4008-101-E65**

# SHURFLO 4008-101-E65 3.0 Revolution Water Pump Instruction Manual

## 1. INTRODUCTION

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The SHURFLO 4008-101-E65 3.0 Revolution Water Pump is designed for reliable performance in various plumbing systems, particularly in RV and trailer applications. Its unique one-piece diaphragm and internal bypass system contribute to extended operational life and consistent performance. This pump delivers water at a rate of 3 gallons per minute (GPM) and operates at 12 VDC, providing up to 55 PSI of pressure.

Key features include quiet operation, the ability to run dry without damage, and patent-pending Flow Reaction Technology to minimize noise, vibration, and excessive cycling. This manual provides essential information for the proper installation, operation, and maintenance of your SHURFLO Revolution water pump.



**Figure 1:** SHURFLO 4008-101-E65 3.0 Revolution Water Pump. This image displays the SHURFLO 4008-101-E65 3.0 Revolution Water Pump. The pump features a black plastic housing for the diaphragm and valve assembly, with two threaded ports for water inlet and outlet. The motor, a cylindrical metal component, is attached to the pump housing and includes a white label with product information. The entire unit is mounted on a black base with rubber feet for stability and vibration isolation.

## 2. SETUP AND INSTALLATION

The SHURFLO 4008-101-E65 pump is designed for flexible installation and can be mounted in any position. Ensure the mounting surface is stable and secure to minimize vibration.

### 2.1 Plumbing Connections

- **Ports:** The pump features  $\frac{1}{2}$ "-14 NPSM-male ports for water inlet and outlet connections.
- **Inlet Pressure:** The maximum inlet pressure should not exceed 30 PSI (2.1 Bar).
- **Self-Priming:** The pump is self-priming up to 6 feet (1.82 meters).
- Ensure all plumbing connections are tight to prevent leaks.

### 2.2 Electrical Connections

- **Voltage:** The pump operates on 12 VDC.
- **Motor:** Permanent magnet, intermittent duty.
- **Leads:** The pump comes with 16 AWG leads: 16 inches (40 cm) Red (+) and 10 inches (33 cm) Black (-).
- **Fuse:** A 10 Amp fuse is recommended for circuit protection.
- Ensure correct polarity when connecting to the power source.

## 3. OPERATING INSTRUCTIONS

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The SHURFLO Revolution pump is designed for automatic operation based on water demand.

- **Flow Rate:** The pump delivers a flow rate of 3.0 GPM (11.4 LPM).
- **Pressure Control:** The pump features an adjustable pressure switch with a built-in check valve. It will shut off at 55 PSI (3.8 BAR) and restart at 25 PSI (1.7 Bar).
- **Quiet Operation:** The pump is engineered for quiet performance, reducing noise and vibration during use.
- **Run Dry Capability:** The pump can run dry without sustaining damage, offering protection in low-water conditions.
- **Liquid Temperature:** The pump can handle liquid temperatures up to 130°F (54°C) maximum.

## 4. MAINTENANCE

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

- **Inspection:** Periodically inspect all plumbing connections for leaks and electrical connections for corrosion or damage.
- **Cleaning:** Ensure the water inlet is free from debris. If an inline strainer is used, clean it regularly.
- **Thermal Protection:** The motor includes thermal overload protection with automatic restart, safeguarding against overheating.
- **Winterization:** In freezing conditions, ensure the pump and entire water system are properly drained or winterized according to your RV or system manufacturer's guidelines to prevent freeze damage.

## 5. TROUBLESHOOTING

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If the pump is not operating as expected, consider the following common troubleshooting steps:

- **No Power:** Check the 10 Amp fuse, battery connections, and ensure the 12 VDC power supply is active.
- **Pump Runs but No Water:** Verify that the water tank has water, all valves are open, and there are no airlocks in the system. Check for clogged inlet strainer.
- **Pump Cycles Rapidly:** This may indicate a leak in the plumbing system, a faulty check valve, or an improperly adjusted pressure switch. Inspect all connections for drips.
- **Low Flow/Pressure:** Check for blockages in the inlet or outlet lines, a dirty strainer, or low voltage supply to the pump.
- **Excessive Noise:** Ensure the pump is securely mounted and not vibrating against other surfaces. Flexible hoses on the inlet and outlet can help reduce noise transmission.

## 6. SPECIFICATIONS

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### Pump Specifications

- **Type:** 4-chambered diaphragm with adjustable pressure switch and bypass
- **Ports:** ½"-14 NPSM-male
- **Flow Rate:** 3.0 GPM (11.4 LPM)
- **Liquid Temperature:** 130°F (54°C) max
- **Prime:** 6 feet (1.82 M)

- **Inlet Pressure:** 30 PSI (2.1 Bar) max
- **Run Dry:** Yes

## Electrical Specifications

- **Motor:** 12 VDC permanent magnet, intermittent duty
- **Protection:** Thermal overload, automatic restart
- **Leads:** 16 AWG, 16" (40 cm) Red (+), 10" (33 cm) Black (-)
- **Fuse:** 10 Amp recommended
- **Control:** Adjustable switch with check valve
- **Amps (max):** 7.5
- **Shutoff Pressure:** 55 PSI (3.8 BAR)
- **Restart Pressure:** 25 PSI (1.7 Bar)

## General Specifications

- **Dimensions:** 4.9" x 8.1" x 4.3" (125 x 206 x 110 mm)
- **Item Weight:** 4.5 Pounds
- **Material:** Metal
- **Color:** Grey
- **Built-in Check Valve:** Yes

## 7. WARRANTY INFORMATION

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SHURFLO warrants its aftermarket Revolution 4008 Series Potable Water Pumps to be free from material and workmanship defects under normal use and service for **2 years** from the date of purchase with a valid purchase receipt. If no purchase receipt is available, the warranty period is 2 years from the date of manufacture indicated on the motor nameplate. Pumps installed as original equipment are covered under the warranty provided by the equipment manufacturer.

## 8. MANUFACTURER INFORMATION

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SHURFLO is a division of the Flow Technologies Group of Pentair, Inc. (PNR). Founded in 1968, SHURFLO has established itself as a leading supplier of water pumps for the RV, marine, general industrial, and floor care markets. The company maintains full-service sales, service, and distribution centers, including a hub in Cypress, California, and a facility in Elkhart, Indiana.