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> FOTING 1.5HP 9000GPH Submersible Sump Pump with 75FT Pool Backwash Hose Instruction Manual

FOTING QL900170 R1

FOTING 1.5HP 9000GPH Submersible Sump Pump with 75FT Pool Backwash Hose Instruction Manual

Model: QL900170 R1

1. INTRODUCTION

Thank you for choosing the FOTING 1.5HP 9000GPH Submersible Sump Pump with 75FT Pool Backwash Hose. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new pump system. Please read these instructions thoroughly before use and retain them for future reference.

This pump is designed for draining water from basements, pools, ponds, and other flooded areas. The included 75FT backwash hose is suitable for high-pressure water transfer applications.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- Always disconnect the pump from the power source before handling, servicing, or performing any maintenance.
- Ensure the power supply matches the voltage specified on the pump's label.
- Do not operate the pump with a damaged power cord or plug. If damaged, contact qualified personnel for repair or replacement.
- This pump is designed for water only. Do not use it for flammable, corrosive, or explosive liquids.
- Keep children and unauthorized persons away from the operating pump.
- Do not run the pump dry. Ensure it is fully submerged in water during operation to prevent overheating and damage.
- Use a grounded outlet and ensure the electrical circuit is protected by a Ground Fault Circuit Interrupter (GFCI).
- Do not lift the pump by its power cord. Use the handle provided.
- The pump is designed for temperatures between 14°F to 122°F (-10°C to 50°C). Do not operate outside this range.

3. PACKAGE CONTENTS

Please check the package to ensure all items are present and undamaged:

- FOTING 1.5HP Submersible Sump Pump
- 75FT Pool Backwash Hose (1-1/2 inch diameter)
- 2 x Hose Clamps
- Hose Adapter (fits Φ 1-1/2", Φ 1" or NPT 1" hose)
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

Familiarize yourself with the components and features of your FOTING Sump Pump system.



Figure 4.1: FOTING Sump Pump. This image displays the main pump unit, featuring its blue housing, integrated float switch, and power cord with a standard plug. The pump's model number (QL900170 R1) and specifications are visible on a label.



Product Specification

Length: **75 FT**

Weight: **15.43 LBS** DIA: **1-1/2"**

2 Clamps Included



1-1/2"



Figure 4.2: Hose Specifications. This image highlights the specifications of the included 75FT pool backwash hose. It details the hose length (75 FT), weight (15.43 LBS), diameter (1-1/2"), and confirms that 2 clamps are included for secure attachment.

TECHNICAL PARAMETER

Output Power Max. Flow Rate
1.5HP **9000GPH**

Max. Head Max. grain size
29FT **2inch**

Protection Type Low Noise
IPX8 **<60dB**



Energy saving
PSC motor



Overheating
protection



Mechanically
sealed



No
maintenance



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Figure 4.3: Technical Parameters. This image provides a summary of the pump's technical specifications, including an output power of 1.5HP, a maximum flow rate of 9000 GPH, a maximum head of 29 FT, and the ability to handle solids up to 2 inches. It also notes IPX8 protection, low noise operation (<60dB), an energy-saving PSC motor, overheating protection, mechanical sealing, and a design requiring no maintenance.



Figure 4.4: Hose Construction. This image illustrates the triple-reinforced PVC construction of the backwash hose, emphasizing its tear resistance, durability, and breakage resistance for reliable performance in various conditions.

ENERGY SAVING PSC MOTOR



Durable



Powerful



Efficient

FOTING 

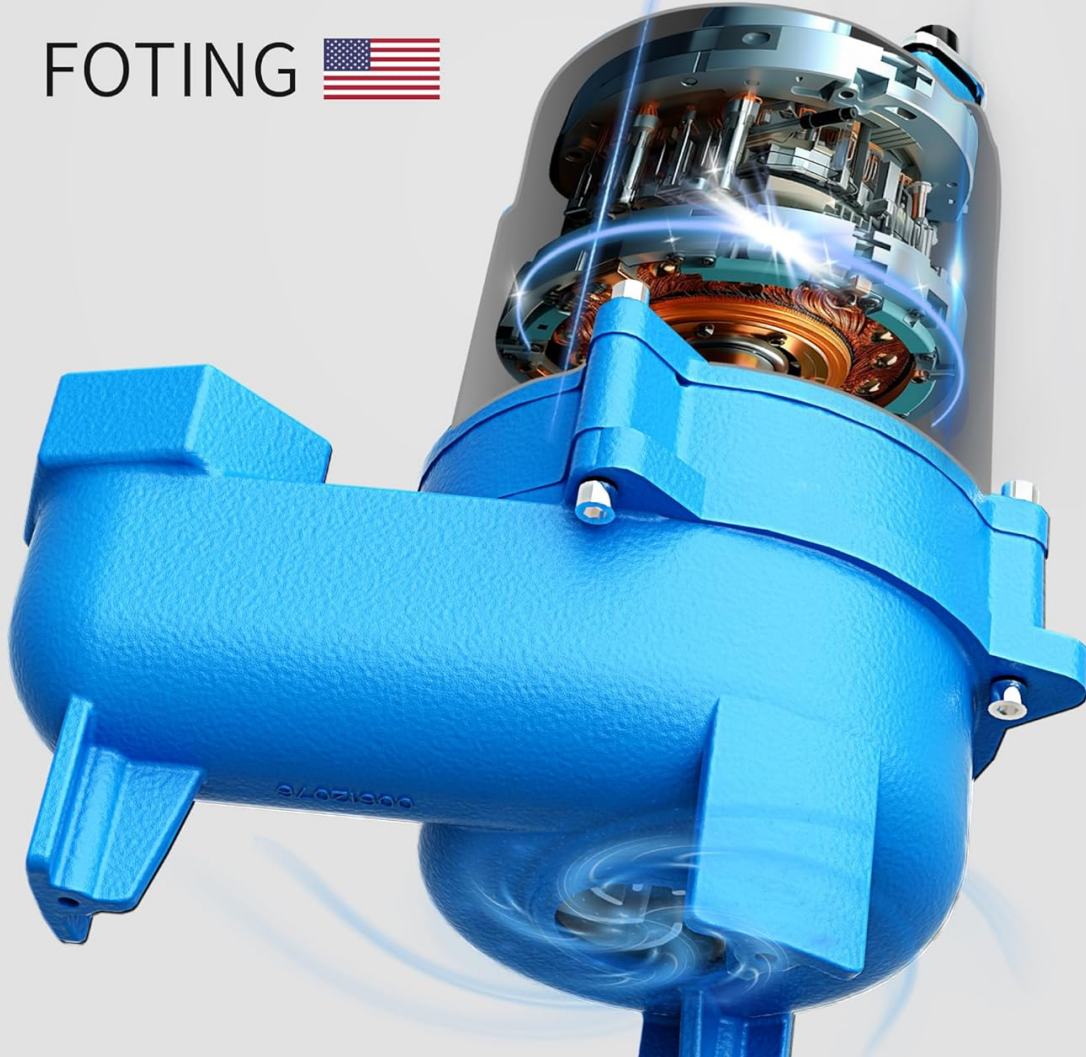


Figure 4.5: PSC Motor. This image provides an internal view of the pump's energy-saving PSC (Permanent Split Capacitor) motor, highlighting its durable, powerful, and efficient design for optimal performance.

Water-proof Pool Backwash Hose

Working Temperature
14°F To 122°F



Figure 4.6: Hose Temperature Range. This image shows the waterproof pool backwash hose and specifies its working temperature range from 14°F to 122°F (-10°C to 50°C), indicating its suitability for diverse environmental conditions.

Wide Application



Sewage Pump



Swimming Pool Filters



Drainage Equipments



Farmland Irrigation

Figure 4.7: Wide Applications. This image illustrates the versatility of the FOTING Sump Pump and hose system, showcasing its use in various scenarios such as a sewage pump, for swimming pool filters, with general drainage equipment, and for farmland irrigation.

5. TECHNICAL SPECIFICATIONS

Parameter	Value
Model	QL900170 R1
Output Power	1.5 HP
Max. Flow Rate	9000 GPH (150 GPM) at 5ft lift
Max. Head	35 FT (up to 29 FT shown in image)
Max. Grain Size	1.5 inches (up to 2 inches shown in image)
Protection Type	IPX8

Parameter	Value
Noise Level	<60 dB
Motor Type	Oil-free PSC Motor
Discharge Port	NPT 1-1/2"
Hose Length	75 FT
Hose Diameter	1-1/2 inches
Operating Temperature	14°F to 122°F (-10°C to 50°C)

Note: Some specifications may vary slightly between product descriptions and technical diagrams. Refer to the product label for the most accurate information.

6. SETUP

- 1. Unpacking:** Carefully remove all components from the packaging. Inspect for any damage during transit.
- 2. Hose Connection:**
 - Attach the provided hose adapter to the pump's discharge port (NPT 1-1/2").
 - Connect the 75FT backwash hose to the hose adapter.
 - Secure the hose connection using the two included hose clamps to prevent leaks and disconnections during operation.
- 3. Placement:**
 - Place the pump on a stable, level surface in the area to be drained.
 - Ensure the pump is fully submerged in water before starting. The minimum water level for operation is approximately 1.5 inches.
 - Position the discharge hose to direct water away from the area being drained and towards a suitable disposal location, ensuring it does not create a new flooding hazard.
- 4. Electrical Connection:**
 - Connect the pump's power cord to a grounded electrical outlet.
 - Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for safety.
 - Verify the voltage of the power supply matches the pump's requirements.

7. OPERATING INSTRUCTIONS

The FOTING Sump Pump features both automatic and manual operating modes.

7.1. Automatic Mode

In automatic mode, the pump will start and stop based on the water level, controlled by the integrated float switch.

1. Ensure the float switch is free to move and not obstructed by any objects or the pump itself.
2. Plug the pump into the GFCI-protected outlet.
3. As the water level rises, the float switch will lift. When it reaches a certain height, the pump will automatically activate and begin draining water.
4. Once the water level drops and the float switch lowers, the pump will automatically shut off.

This mode is ideal for continuous monitoring and drainage of basements or areas prone to flooding.

7.2. Manual Mode

Manual mode allows the pump to operate continuously, regardless of the water level, until unplugged.

1. To engage manual mode, use the snap-on design of the float switch to keep it in an uplifted position. This bypasses the automatic shut-off mechanism.
2. Plug the pump into the GFCI-protected outlet. The pump will start immediately.
3. **Important:** Monitor the pump closely in manual mode to prevent it from running dry, which can cause severe damage. Unplug the pump once the desired water level is reached or the area is drained.

Manual mode is useful for quickly draining specific areas or when precise control over the drainage process is required.

8. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your FOTING Sump Pump.

- **Before Maintenance:** Always disconnect the pump from the power supply before performing any cleaning or maintenance.
- **Cleaning the Pump:**
 - The pump features a removable base for easy cleaning. Detach the base and clear any debris, sediment, or foreign objects that may have accumulated around the impeller or inlet screen.
 - Rinse the pump thoroughly with clean water.
- **Float Switch Inspection:** Periodically check the float switch for free movement. Ensure it is not clogged with debris or stuck in any position.
- **Hose Inspection:** Inspect the backwash hose for any signs of wear, tears, or damage. Replace if necessary to prevent leaks.
- **Storage:** If storing the pump for an extended period, clean it thoroughly, drain all water, and store it in a dry, frost-free location.
- **No Maintenance Required:** The pump is designed with a mechanically sealed, oil-free PSC motor, requiring no routine lubrication or internal maintenance.

9. TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Pump does not start	No power supply	Check power cord, outlet, and GFCI. Ensure power is on.
	Float switch stuck (Automatic Mode)	Ensure float switch moves freely. Clear any obstructions.
	Low water level (Automatic Mode)	Wait for water level to rise or operate in manual mode (with caution).
Pump runs but no water is discharged	Discharge hose kinked or blocked	Check and clear any kinks or blockages in the hose.

Problem	Possible Cause	Solution
	Impeller or inlet screen clogged	Disconnect power, remove base, and clean impeller/inlet screen.
Pump cycles on and off frequently	Float switch restricted or water level fluctuating	Ensure float switch has full range of motion. Check for consistent water inflow.
Reduced pumping capacity	Partial blockage in pump or hose	Clean pump inlet, impeller, and check hose for partial blockages.
	Excessive lift height or long hose run	Ensure pump is within its specified max head and hose length limits.

If the problem persists after attempting these solutions, please contact FOTING customer support.

10. WARRANTY AND SUPPORT

FOTING provides a **THREE-YEAR after-sale service** for this product.

If you encounter any issues or have questions regarding your FOTING Sump Pump, please do not hesitate to contact our customer support team. We are committed to ensuring your satisfaction.

For support, please refer to the contact information provided on the product packaging or the official FOTING website.