FLUENTPOWER FSP550C

FLUENTPOWER 1/2HP Submersible Sump Pump User Manual

Model: FSP550C

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of your FLUENTPOWER 1/2HP Submersible Sump Pump. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

General Safety Precautions:

- Always disconnect power before performing any maintenance or installation.
- Do not operate the pump with a damaged cord or plug.
- Ensure the power source matches the pump's specifications (110 Volts).
- Keep hands, feet, and clothing away from moving parts.
- This pump is designed for clean or slightly dirty water. Avoid pumping flammable, corrosive, or explosive liquids.
- Do not use the pump in areas where children or pets can access it without supervision.
- The pump features thermal protection to prevent burnout. If it triggers, allow it to cool down before restarting.

3. PRODUCT OVERVIEW

The FLUENTPOWER 1/2HP Submersible Sump Pump is a versatile utility pump designed for various draining applications. It features an integrated float switch for automatic operation and a manual control option.

Key Features:

- 1/2 HP Powerful Motor: Ensures effective water transfer.

- Max Flow Rate: Up to 2500 GPH (Gallons Per Hour).
- Max Lifting Height: Up to 26 feet.
- Integrated Float Switch: For automatic ON/OFF based on water level.
- Manual Control: Allows continuous operation for lower water levels (down to 1/2").
- Durable Construction: Full corrosion-resistant shell and upgraded sealing structure.
- Solids Handling: Can pass solids up to 1/5" (0.2 inches).
- Long Power Cord: 16.4-foot cord for extended reach.
- Multiple Adapters: Includes GHT 3/4", NPT 1", and G 1-1/2" discharge port for various hose connections.
- Check Valve: Prevents backflow of pumped water.

Figure 3.1: FLUENTPOWER 1/2HP Submersible Sump Pump with various adapters and nylon rope.

Figure 3.2: Detailed dimensions and specifications of the 2500GPH sump pump.

4. Setup

Connecting Hoses:

The pump comes with three plastic adapters to accommodate different hose types:

- **GHT 3/4" + NPT 1":** For standard garden hoses.
- **G 1-1/2" Discharge Port:** For high-capacity pumping with a discharge hose.

Ensure the check valve is installed to prevent pumped water from flowing back into the pump.

Figure 4.1: Illustration of different hose adapters and their connections.

Your browser does not support the video tag.

Video 4.1: Official FLUENTPOWER video demonstrating the setup and operation of the 1/2HP Sump Pump. This video shows the pump's powerful water transfer capabilities and ease of use.

5. Operating Modes

Automatic Mode:

When the sump pump is plugged in and set to automatic mode, it will automatically activate when the water level rises above 4 inches. It will then continue to pump until the water level drops to 2 inches, at which point it will automatically shut off. To ensure proper function, tilt and submerge the pump in water for a few seconds when first starting to expel any trapped air.

Manual Mode:

If the water level is below the 4-inch automatic activation point, or if you need to remove water to a minimum level of 1/2 inch, you can switch the pump to manual control. In manual mode, the pump will run continuously and will not turn off automatically. It is crucial to monitor the pump and disconnect the power immediately once the desired water level is reached to prevent the motor from overheating or burning out.

Figure 5.1: Visual guide to the automatic and manual operation of the sump pump, showing water level triggers.

Your browser does not support the video tag.

Video 5.1: Official FLUENTPOWER video demonstrating the automatic and manual modes of the 1/2HP 2500GPH Submersible Utility Pump, highlighting its ease of use in different scenarios.

6. MAINTENANCE

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

- **Cleaning:** Periodically inspect the bottom grid and impeller for debris (e.g., leaves, small solids) that may obstruct water flow. Clean as necessary.
- **Storage:** When not in use for extended periods, clean the pump thoroughly, drain all water, and store it in a dry, protected area away from freezing temperatures.
- **Cord Inspection:** Regularly check the power cord for any signs of damage, fraying, or cuts. Do not use the pump if the cord is damaged.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start.	No power; float switch stuck; clogged impeller.	Check power connection; ensure float switch moves freely; clear any debris from impeller.
Low water flow.	Hose kinked or obstructed; pump partially clogged; discharge head too high.	Straighten hose; clean pump intake/impeller; ensure pump is within max lifting height.
Pump runs continuously in Auto mode.	Float switch stuck in ON position; water level not dropping below 2 inches.	Check float switch for obstructions; ensure pump is placed correctly to reach 2-inch shut-off.

Problem	Possible Cause	Solution
Pump stops unexpectedly.	Thermal overload activated; power interruption.	Allow pump to cool down; check power supply.

8. SPECIFICATIONS

Attribute	Value
Brand	FLUENTPOWER
Model Number	FSP550C
Horsepower	1/2 HP (0.5 hp)
Maximum Flow Rate	2500 GPH (42 Gallons Per Minute)
Maximum Lifting Height	26 Feet
Voltage	110 Volts
Wattage	350 watts
Item Weight	8.3 Pounds
Product Dimensions	7.9"L x 6.5"W x 11.7"H
Power Source	AC
Material	Plastic
Special Features	Float switch (Auto/Manual Control)
Included Components	GHT 3/4", NPT 1" and G1.5" Adapter, a 26 ft nylon rope

9. WARRANTY AND SUPPORT

This pump is designed for multi-applications and emergency use. The manufacturer provides lifelong technical consultation and 24-hour customer service.
For further assistance, please refer to the official user manual (PDF) available for download or contact FLUENT TOOLS customer service.
You may also consider purchasing extended protection plans for additional coverage.