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› FLUENTPOWER 1HP Sump Pump 4000GPH Stainless Steel Submersible Pump User Manual

FLUENTPOWER FSP1100DWB

FLUENTPOWER 1HP Sump Pump User Manual

Model: FSP1100DWB | Brand: FLUENTPOWER

1. INTRODUCTION

Thank you for choosing the FLUENTPOWER 1HP Sump Pump. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your pump. Please read it thoroughly before use and retain it for future reference.

This powerful 1HP submersible pump is designed for various water transfer applications, including draining basements, cellars, pools, ponds, and other areas prone to flooding. It features a robust stainless steel construction and offers both automatic and manual operating modes for versatile use.



Figure 1.1: FLUENTPOWER Sump Pump in operation, demonstrating its use in draining a pond.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the pump:

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (110 Volts). Do not operate the pump with a damaged cord or plug. Always connect to a grounded outlet.
- **Water Temperature:** Do not use the pump with water exceeding 95°F (35°C).
- **Flammable Liquids:** Never pump flammable or explosive liquids such as gasoline, fuel oil, or thinners.
- **Corrosive Liquids:** Avoid pumping corrosive chemicals or saltwater, as this can damage the pump.
- **Dry Running:** Do not allow the pump to run dry, especially in manual mode, as this can cause severe damage to the motor.
- **Children and Pets:** Keep children and pets away from the pump and the area being drained.
- **Maintenance:** Disconnect the power supply before performing any maintenance or cleaning.

3. PRODUCT OVERVIEW AND COMPONENTS

The FLUENTPOWER 1HP Sump Pump is constructed with a durable 304 stainless steel housing for longevity and efficient cooling. It comes with essential accessories for immediate use.



Figure 3.1: Main components of the FLUENTPOWER 1HP Sump Pump and included accessories.

Included Components:

- FLUENTPOWER 1HP Sump Pump unit
- Adjustable Float Switch (pre-attached)
- 26.2 ft (8m) Power Cord
- 26 ft (8m) Rope

- Discharge Elbow
- Plastic Adapters: GHT 3/4", NPT 1", and 1-1/2" male thread connectors (with various diameter outlets: 1 inch, 1-1/4 inch, 1-1/2 inch)

4. SETUP AND INSTALLATION

Proper setup ensures optimal performance and safety.

4.1 Connecting the Discharge Hose

The pump comes with multiple adapters to accommodate different hose sizes:

- For standard garden hoses, use the GHT 3/4" or NPT 1" adapters.
- For maximum output flow rate (4000 GPH), use the 1-1/2" male thread connector. This adapter has three different diameter outlets (1 inch, 1-1/4 inch, 1-1/2 inch) to adapt to various hose sizes. Cut the adapter at the desired diameter for your hose.



Figure 4.1: Illustration of the four replacement adapters and their corresponding hose types.

4.2 Pump Placement

Place the pump on a stable, flat surface in the area to be drained. Ensure the pump is fully submerged for optimal operation and cooling. The pump can be used in a minimum pit size of 16"x16" and can be submerged up to a maximum depth of 23 feet.

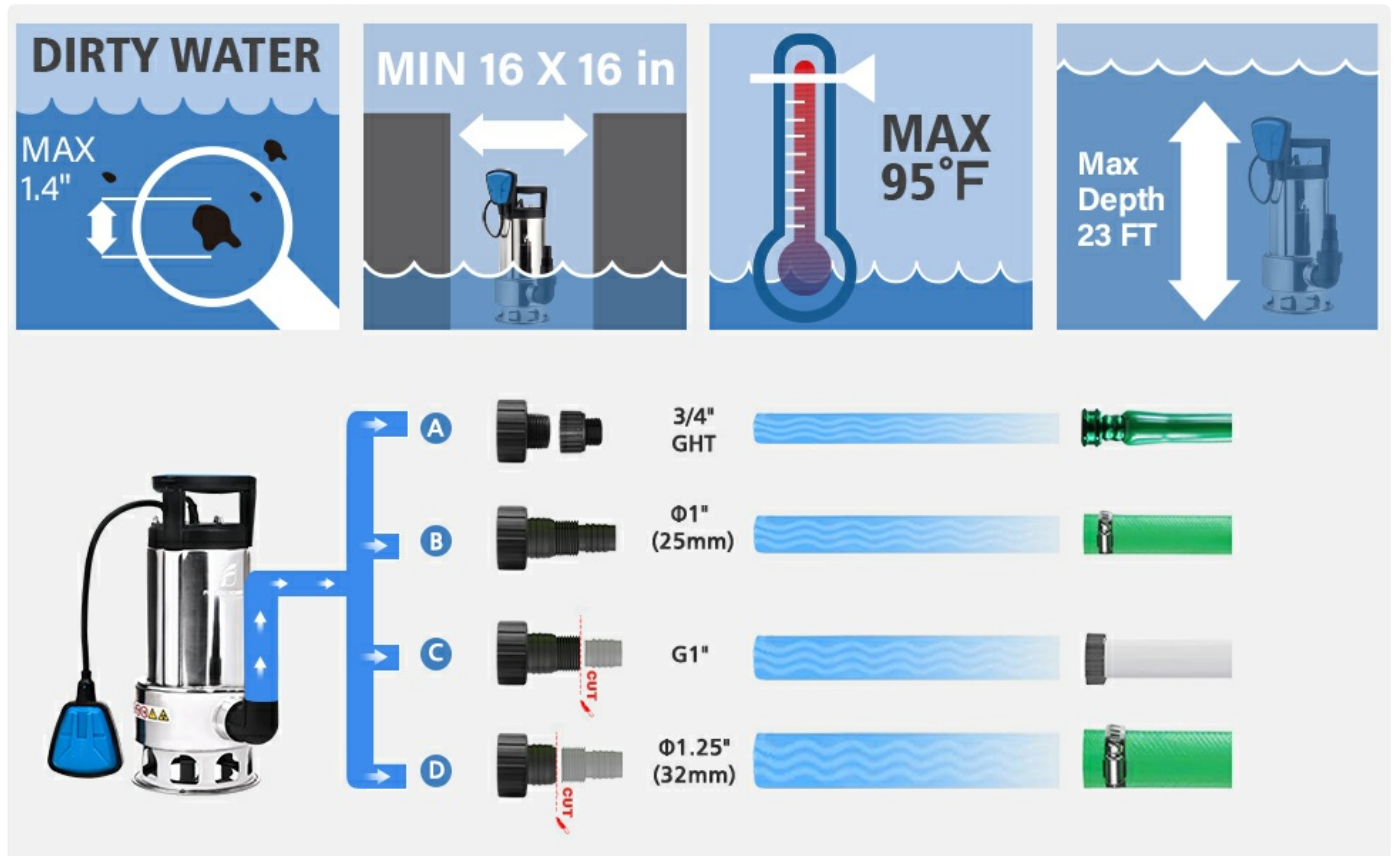


Figure 4.2: Key operational parameters including dirty water capacity, minimum pit size, maximum water temperature, and maximum submersion depth.

5. OPERATION

The FLUENTPOWER sump pump offers both automatic and manual operating modes.

5.1 Automatic Operation (Float Switch)

The pump's ON/OFF function is controlled by the adjustable float switch. When the pump is plugged in:

- The pump will automatically start when the water level rises above approximately 20 inches (the float switch floats upwards).
- The pump will automatically stop working when the water level drops to approximately 6 inches (the float switch drops downwards).

5.2 Manual Operation

For situations where the water level is too low for the float switch to operate automatically, or if you need to drain water to a lower level (down to 2 inches), you can switch to manual control. To do this, simply attach the float switch to its side slot on the pump body. This will keep the pump running continuously.

Important: In manual mode, the pump will not turn off automatically. You must monitor the pump and cut off the power immediately once the water is drained to prevent the motor from running dry and overheating.

FASTER PUMPING



Figure 5.1: Automatic vs. Manual Operation modes.

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Video 5.1: Demonstration of the pump's water discharge rate through a hose. This video illustrates the efficiency of the pump in moving water.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your sump pump.

- **Cleaning:** Periodically clean the pump's intake screen to prevent blockages from debris. The pump can handle solids up to 1.4 inches, but excessive debris can reduce efficiency.
- **Storage:** If storing the pump for an extended period, ensure it is clean and dry. Store in a cool, dry place.
- **Inspection:** Regularly inspect the power cord and float switch for any signs of damage. Do not use if damaged.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your sump pump.

Problem	Possible Cause	Solution
Pump does not start	No power; Float switch not activated (Auto mode); Impeller jammed.	Check power connection/outlet; Ensure water level is above 20 inches (Auto mode); Clear any debris from the impeller.
Pump runs but no water is discharged or flow is low	Discharge hose kinked/blocked; Intake screen blocked; Air lock; Pump not fully submerged.	Check and clear hose; Clean intake screen; Tilt pump to release trapped air; Ensure pump is fully submerged.
Pump runs continuously in Auto mode	Float switch stuck; Water level not dropping below cut-out level.	Check float switch for obstructions; Ensure float switch can move freely.
Pump cycles on/off too frequently	Float switch cable length too short; Small pit size.	Adjust float switch cable length if possible; Consider a larger pit if feasible.
Pump overheats and shuts off	Dry running; Motor overload.	Ensure pump is always submerged when operating; Allow pump to cool down, it will restart automatically after cooling.

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the FLUENTPOWER 1HP Sump Pump (Model FSP1100DWB).



Figure 8.1: Key technical specifications at a glance.

Specification	Value
Brand	FLUENTPOWER
Model Number	FSP1100DWB
Power Source	AC
Voltage	110 Volts
Wattage	750 watts
Horsepower	1 HP
Maximum Flow Rate	4000 GPH (67 Gallons Per Minute)

Specification	Value
Maximum Lifting Height (Head)	30 Feet
Max Solids Handling	1.4 inches
Product Dimensions (L x W x H)	9.6" x 6.4" x 14.9"
Item Weight	8.6 Pounds
Cable Cord Length	26.2 ft
Max Submersion Depth	23 ft
Min Pit Size	16" x 16"
Max Water Temperature	95°F (35°C)

9. WARRANTY AND SUPPORT

FLUENTPOWER is committed to providing high-quality products and customer satisfaction. This product comes with lifelong technical consultation and 24-hour customer service.

For further assistance, please refer to the official User Manual PDF available online or contact FLUENTPOWER customer support directly.

Official User Manual (PDF): [Download Here](#)

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