FLUENTPOWER FSP900C

FLUENTPOWER Submersible Sump Pump FSP900C Instruction Manual

Model: FSP900C

1. Important Safety Information

Read and understand all safety warnings and instructions before operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electrical Safety:** Always disconnect the pump from the power source before performing any maintenance or adjustments. Ensure the power supply matches the pump's voltage (110V). Use a ground fault circuit interrupter (GFCI) for all electrical connections. Do not operate the pump with a damaged cord or plug.
- **Water Temperature:** Do not pump liquids hotter than 95°F (35°C).
- **Flammable Liquids:** Never use the pump to transfer flammable or explosive liquids such as gasoline, fuel oil, kerosene, etc.
- **Submersion:** This pump is designed for submersible use only. Ensure the pump is fully submerged during operation to prevent overheating.
- **Children and Pets:** Keep children and pets away from the pump and its operating area.
- **Cable and Rope:** Do not lift or carry the pump by its power cord. Use the provided nylon rope or handle for positioning.

2. Product Overview

The FLUENTPOWER FSP900C is a 3/4 HP submersible utility water pump designed for efficient draining of clean or slightly dirty water. It features an integrated float switch for automatic or manual operation, making it suitable for various applications such as pools, ponds, basements, and more.



Image: FLUENTPOWER Submersible Sump Pump in operation, demonstrating its use for water removal.

Key Features:

- **Powerful Motor:** 3/4 HP motor for effective water transfer up to 3300 GPH.
- **Auto/Manual Control:** Integrated float switch allows for automatic or continuous manual operation.
- **High Lift:** Can lift water up to a maximum vertical height of 29 feet.
- **Solids Handling:** Passes solids up to 1/5 inch (0.2 inches) in diameter.
- **Durable Construction:** Upgraded sealing structure and corrosion-resistant shell for extended durability.
- **Thermal Protection:** Built-in thermal overload protector prevents motor burnout.
- **Versatile Adapters:** Includes GHT 3/4", NPT 1", and G 1-1/2" discharge port adapters for various hose connections.

3. Setup and Installation

Follow these steps for proper installation of your sump pump.

3.1 Connecting the Discharge Hose

1. Select the appropriate adapter (GHT 3/4", NPT 1", or G 1-1/2") based on your discharge hose size.
2. Thread the chosen adapter onto the pump's discharge port. Ensure a tight seal.
3. Connect your discharge hose to the adapter. For larger flow rates, use the G 1-1/2" discharge port.
4. Attach the check valve (if using) to prevent water from flowing back into the pump.

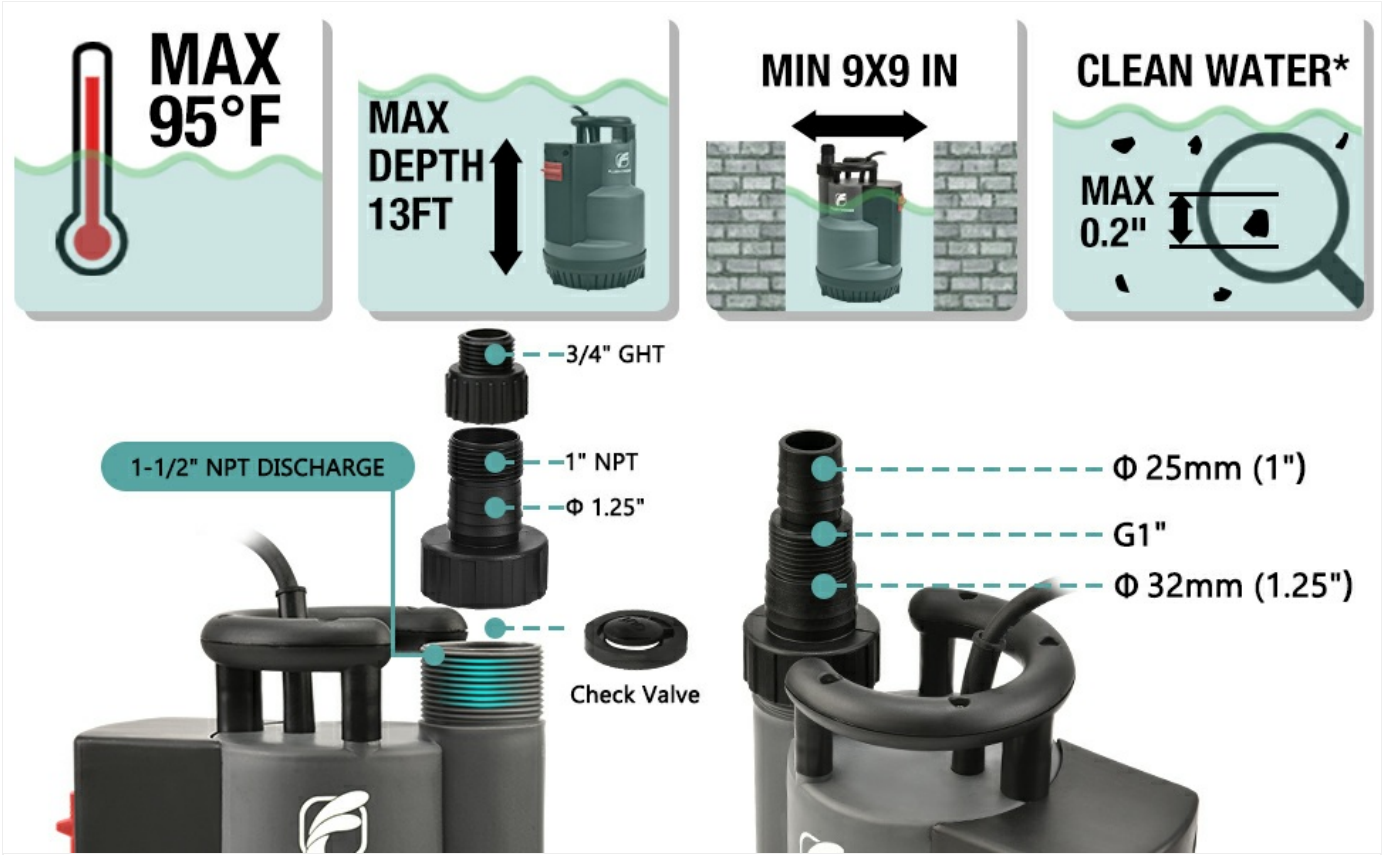


Image: Illustration of the different hose adapters (3/4" GHT, 1" NPT, G1.5") and how to connect them to the pump's discharge port.

3.2 Positioning the Pump

- Place the pump on a stable, level surface in the area to be drained.
- Ensure the pump is fully submerged in water during operation. The minimum operating water level is approximately 4 inches for automatic mode.
- Use the 26-foot nylon rope to lower and retrieve the pump, if necessary, especially in deep areas.
- Ensure the float switch can move freely and is not obstructed by walls or debris.

3.3 Initial Priming

When starting the pump for the first time or after it has been dry, tilt and submerge it in water for a few seconds to expel any trapped air inside the pump housing. This ensures proper operation.

4. Operating Instructions

The FLUENTPOWER FSP900C pump offers both automatic and manual operating modes.

Your browser does not support the video tag.

Video: A demonstration of the FLUENTPOWER 3/4HP 3300GPH Switchable Submersible Pump, showing its features and operation.

4.1 Automatic Mode

- Plug the pump into a grounded electrical outlet.

- The pump will automatically start when the water level rises above approximately 4 inches.
- The pump will automatically shut off when the water level drops to approximately 2 inches.
- Ensure the float switch has clear movement space to activate and deactivate correctly.

4.2 Manual Mode

- To activate manual mode, you may need to manually hold or position the float switch in an 'up' position, or ensure the water level is consistently above the automatic shut-off point.
- In manual mode, the pump will run continuously and will not turn off automatically.
- **Important:** Monitor the pump closely in manual mode. Disconnect the power immediately once the desired water level is reached (as low as 1/2 inch) to prevent the motor from running dry and burning out.



Image: Visual representation of the pump's automatic operation (on above 4", off below 2") and manual operation (removes water down to 0.5").

5. Maintenance

Regular maintenance ensures optimal performance and extends the life of your pump.

- **Disconnect Power:** Always unplug the pump before any cleaning or maintenance.
- **Clean Intake Screen:** Periodically check and clean the intake screen at the bottom of the pump to remove any debris (leaves, small stones, etc.) that may obstruct water flow.
- **Inspect Power Cord:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. Replace if damaged.
- **Float Switch Check:** Ensure the float switch moves freely and is not sticking or obstructed.
- **Storage:** If storing the pump for an extended period, clean it thoroughly, drain all water, and store it in a dry, frost-free location.

6. Troubleshooting

If you encounter issues with your pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not start or run.	No power; Float switch stuck; Thermal overload activated; Clogged impeller.	Check power connection and GFCI; Ensure float switch moves freely; Allow pump to cool down; Clean intake screen and impeller.
Pump runs but does not pump water.	Air lock; Clogged intake/discharge; Insufficient water level; Damaged impeller.	Tilt and submerge pump to release air; Clean intake screen and discharge hose; Ensure water level is above minimum; Inspect impeller for damage.
Pump cycles on and off too frequently.	Float switch obstruction; Check valve issue; Water backflow.	Clear float switch path; Inspect or install check valve; Ensure discharge hose is properly routed.
Reduced pumping capacity.	Partial clog; Worn impeller; Excessive lift height.	Clean pump and hoses; Contact customer service for parts; Verify pump specifications for your application.

7. Specifications

Detailed technical specifications for the FLUENTPOWER FSP900C Submersible Sump Pump.

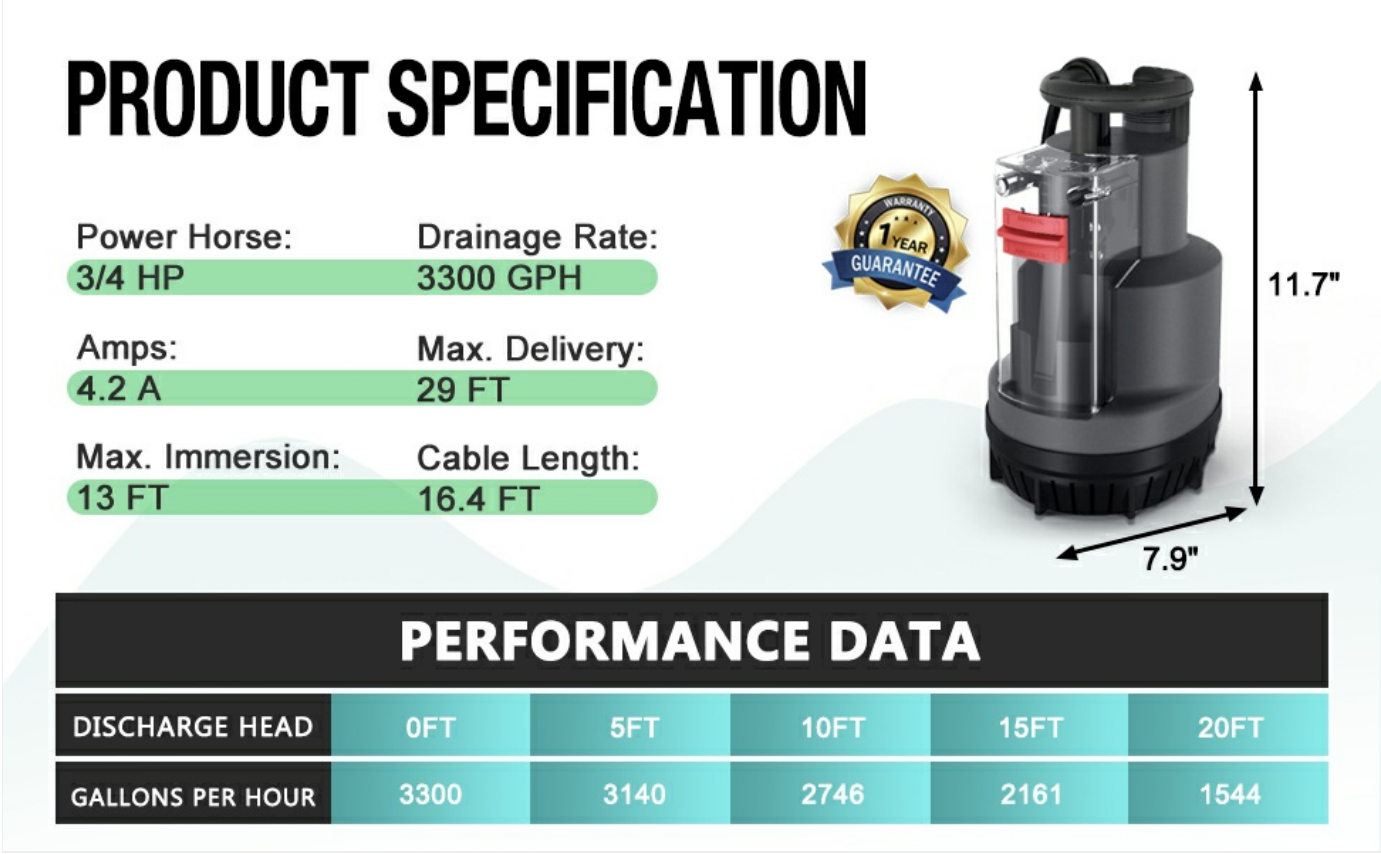


Image: Key specifications and dimensions of the FLUENTPOWER Submersible Sump Pump.

Specification	Value
Model Number	FSP900C

Specification	Value
Power	3/4 HP
Voltage	110 Volts
Maximum Flow Rate	3300 GPH (55 gpm)
Maximum Lifting Height (Max Head)	29 feet
Power Cord Length	16.4 feet
Solids Handling	Up to 1/5 inch (0.2 inches)
Product Dimensions (L x W x H)	7.9" x 6.5" x 11.7"
Item Weight	8.3 pounds
Material	PP Plastic Shell
Maximum Water Temperature	95°F (35°C)

Performance Data (Gallons Per Hour vs. Discharge Head):

Discharge Head	Gallons Per Hour
0 FT	3300
5 FT	3140
10 FT	2746
15 FT	2161
20 FT	1544

8. Warranty and Support

FLUENTPOWER provides lifelong technical consultation and 24-hour customer service for this product. For warranty claims or technical assistance, please contact FLUENTPOWER customer support through their official channels or the retailer where the product was purchased.

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