

FLUENTPOWER FSP1300HC-1

FLUENTPOWER Deep Well Submersible Pump User Manual

Model: FSP1300HC-1

Brand: FLUENTPOWER

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your FLUENTPOWER Deep Well Submersible Pump. Designed for powerful and stable water transfer, this 1.5HP pump is ideal for various applications including garden and farmland irrigation, water tank filling, and domestic or industrial water supply from deep wells, shafts, reservoirs, rivers, and cisterns.

Please read all instructions carefully before installation and operation to ensure proper use and longevity of the product.

2. SAFETY INFORMATION

Always adhere to local electrical codes and safety regulations. Ensure the pump is connected to a properly grounded, Ground-Fault Circuit-Interrupter (GFCI) protected receptacle to reduce the risk of electric shock.

- Do not operate the pump with flammable or corrosive liquids.
- The temperature of the liquid must not exceed 95°F (35°C).
- Ensure the pump is fully immersed in water during operation to prevent dry running and overheating.
- Keep children and unauthorized personnel away from the pump during operation.
- Disconnect power before performing any maintenance or cleaning.

3. PRODUCT FEATURES

- **Powerful and Stable Performance:** 1.5 HP oil-free motor, 1700 GPH (Gallons Per Hour) flow rate at zero feet.
- **High Pressure Output:** 4-stage impellers generate a maximum pressure of 4.5 bar (65 psi) and can deliver water up to 147 ft of vertical height.
- **Automatic Pressure Switch and Check Valve:** Automatically switches off if water flow stops for more than 30 seconds. Automatically switches on when water pressure drops sufficiently. Built-in check valve prevents back-flow.
- **Thermal Overload Protection:** Prevents the motor from overheating and burning out.
- **Wide Application:** Suitable for deep wells (min 8"x8"), shafts, reservoirs, rivers, and cisterns. Ideal for garden/farmland irrigation and water tank filling.
- **Extended Reach:** 49-foot power cable allows immersion depths up to 39 feet.

- **Durable Construction:** Stainless steel and plastic materials for longevity.

4. PACKAGE CONTENTS

Verify that all items are present and in good condition upon unboxing:

- FLUENTPOWER Deep Well Submersible Pump (1.5HP)
- 1" NPT to 3/4" GHT Male Adapter (for threaded garden hoses)
- 3/4" GHT thread male hose quick connector (for standard garden hose)
- 66-foot nylon rope
- Instruction Manual



Figure 1: Deep Well Submersible Pump and included accessories (adapters, rope).



Figure 2: Detailed view of pump features including 1" FNPT outlet, stainless steel housing, base filter, and 49 ft power cord.

5. SETUP

Proper setup is crucial for optimal performance and safety. Follow these steps:

1. **Attach Hose:** Connect your desired hose to the pump's 1" NPT outlet. Use the provided adapters (1" NPT to 3/4" GHT Male Adapter or 3/4" GHT thread male hose quick connector) as needed for your specific hose type. Ensure all connections are tightly sealed using thread tape if necessary.
2. **Priming the Pump:** Before initial use, the pump must be primed. Remove the water filler opening cap (usually on top) and fill the pump casing completely with clean water. This ensures the pump can create suction.
3. **Secure with Rope:** Attach the provided 66-foot nylon rope to the pump's handle. This rope is essential for safely lowering and retrieving the pump from deep wells or tanks.
4. **Positioning:** Lower the pump into the water source. Ensure the pump is fully submerged and maintains a minimum distance from the bottom of the well/tank (11.8" for wells, 5" for tanks) to prevent drawing in sediment. The minimum well size is 8"x8".
5. **Power Connection:** Connect the 49-foot power cable to a properly grounded 110V/60Hz GFCI-protected electrical outlet.



Cordless Sump Pump

Figure 3: Well Bottom Installation Diagram. Ensure proper immersion depth and clearance from the bottom.



Figure 4: Water Tank Installation Diagram. Maintain adequate clearance from the tank bottom.

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Video 1: Official product video demonstrating the setup and operation of the FLUENTPOWER Deep Well Submersible Pump. This video shows how to connect the hose, prime the pump, and begin operation.

6. OPERATING INSTRUCTIONS

Once the pump is properly set up and primed, you can begin operation:

1. **Power On:** Press the power button on the control panel. The "Power On" indicator light will illuminate.
2. **Automatic Operation:** The pump features an automatic pressure control system. It will start pumping water as soon as there is a demand (e.g., opening a faucet or sprinkler).
3. **Automatic Shut-off:** If the water flow stops for more than 30 seconds (e.g., closing a faucet), the pump will automatically switch off to prevent dry running.
4. **Automatic Restart:** As soon as the water pressure has dropped sufficiently (e.g., opening a faucet again), the pump will automatically switch on.
5. **Monitoring:** Observe the indicator lights on the control panel for operational status and any warning codes.



Figure 5: Automatic Pressure Control System. The pump intelligently manages water flow based on demand.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your pump:

- **Filter Cleaning:** Periodically check and clean the base filter to prevent clogging, especially if pumping water

with sediment or debris. The frequency depends on the water quality.

- **Winter Storage:** If storing the pump for extended periods or in freezing temperatures, ensure all water is drained from the pump and hoses to prevent damage. Store in a dry, protected area.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and debris.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped GFCI; motor overload.	Check power connection and GFCI. Allow motor to cool if overheated.
Pump runs but no water is delivered.	Pump not primed; suction hose leak; clogged filter; water source too low.	Re-prime the pump. Check all connections for leaks. Clean the base filter. Ensure pump is fully submerged.
Reduced water flow/pressure.	Clogged filter; partial suction leak; hose kinked.	Clean the base filter. Check all hose connections. Straighten any kinks in the hose.
Pump circuit board flooded with water.	Water ingress due to seal failure or improper installation.	Immediately disconnect power. This indicates a serious internal failure. Contact customer service for technical consultation.

The pump's control panel features indicator lights that can signal issues. Refer to the instruction manual for specific warning codes and their meanings.

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Video 2: A customer-submitted video showing water ingress in the pump's circuit board, leading to short-circuiting. This highlights a critical failure point that requires immediate attention and professional repair.

9. SPECIFICATIONS

Specification	Value
Brand	FLUENTPOWER
Model Number	FSP1300HC-1
Power Source	Corded Electric
Voltage	110 Volts
Horsepower	1.5 HP
Maximum Flow Rate	1700 GPH (28 Gallons Per Minute)
Maximum Lifting Height	147 Feet
Maximum Immersion Depth	39 Feet
Power Cable Length	49 Feet

Specification	Value
Discharge Connection	1" FNPT
Minimum Well Size	8"L x 8"W
Product Dimensions	6.1"L x 6.1"W x 19.4"H
Item Weight	21.4 Pounds
Material	Stainless Steel, Plastic

1.5 HP DEEP WELL PUMP

TECHNICAL DATA

Power:	1.5 HP
Max Flow:	1700 GPH
Max Head:	147 FT
Max Immersion:	39 FT
Power Cord:	49 FT
Discharge:	1" FNPT
Pump Size:	6.1x6.1x19.4"

Figure 6: Technical Data Overview of the 1.5 HP Deep Well Pump.

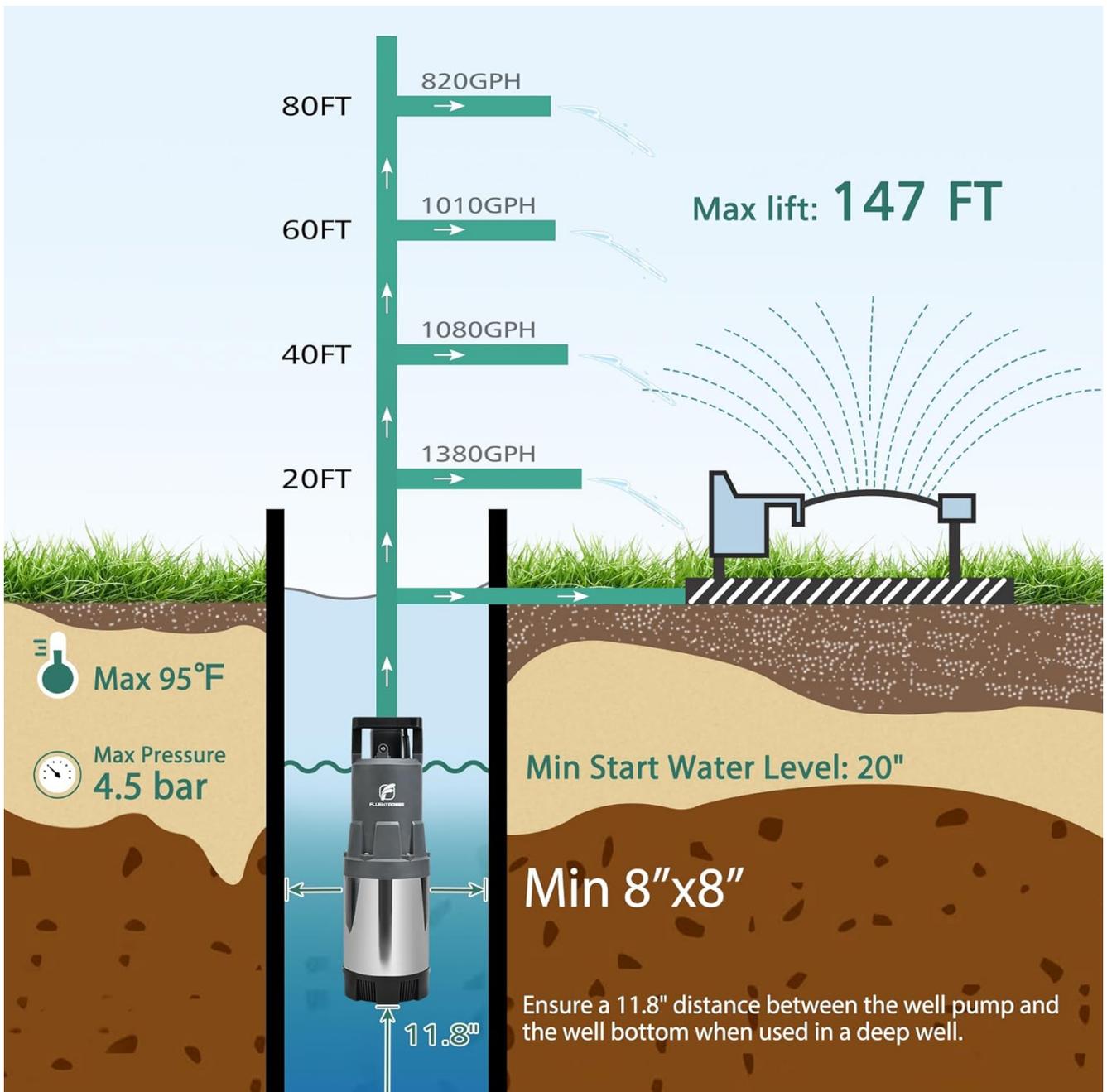
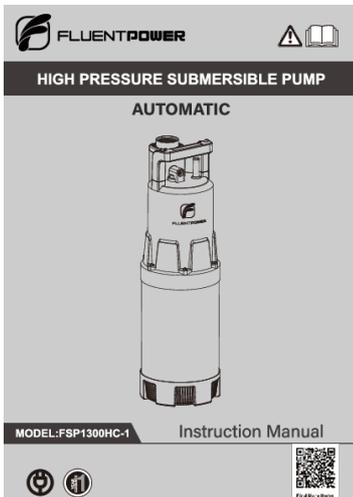


Figure 7: Pump Performance Curve illustrating flow rate at different lifting heights.

10. WARRANTY AND SUPPORT

FLUENTPOWER is committed to providing long-life professional technical consultation and timely customer service. If you encounter any problems or have questions regarding your Deep Well Submersible Pump, please do not hesitate to contact us.

For support, please refer to the contact information provided in your product packaging or visit the official FLUENTPOWER website.



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