

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [FLUENTPOWER](#) /
- › [FLUENTPOWER 1.5HP Automatic Garden Booster Pump Instruction Manual](#)

## FLUENTPOWER FSGP1300S

# FLUENTPOWER 1.5HP Automatic Garden Booster Pump

Model: FSGP1300S | Brand: FLUENTPOWER

## 1. INTRODUCTION AND PRODUCT OVERVIEW

The FLUENTPOWER 1.5HP Automatic Garden Booster Pump is designed for efficient water transfer and irrigation in various applications, including home gardens, lawns, and farm irrigation. Featuring an integrated prefilter and an automatic pressure control system, this pump offers stable and reliable performance with enhanced protection and ease of use.



Image: The FLUENTPOWER 1.5HP Automatic Garden Booster Pump, showcasing its compact design and integrated prefilter.



3/4" GHT Adapter

Image: Visual representation of the pump's versatile applications, including lawn sprinkling, garden watering, water transferring, and farm irrigation.

## 2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before operating the pump. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always disconnect the pump from the power source before performing any maintenance or adjustments.
- Do not operate the pump with a damaged cord or plug.
- Ensure the power source matches the voltage requirements of the pump (110 Volts).
- Keep children and pets away from the operating pump.
- Do not pump flammable or corrosive liquids.

- Protect the pump from freezing temperatures. Drain water completely if not in use during cold weather.
- Ensure proper ventilation around the pump during operation to prevent overheating.

### 3. WHAT'S INCLUDED

Your FLUENTPOWER 1.5HP Automatic Garden Booster Pump package includes the following components:



Image: Diagram illustrating the main pump unit and all included accessories with numerical labels.

1. 1 x Jet pump
2. 2 x Hose clamp
3. 2 x Garden hose adapter
4. 1 x Check valve for intake hose with 1" hose coupling
5. 1 x 1" hose coupling for intake hose
6. 1 x Thread tape
7. 1 x Wrench for prefilter
8. 1 x Wrench for drain screw

### 4. SETUP INSTRUCTIONS

Follow these steps for proper installation and initial setup of your pump:

#### 4.1. Filling Water into the Inlet Hose

Before starting the pump, ensure the inlet hose is properly filled with water. This is crucial for priming the pump and preventing dry running.



Image: Diagram showing the process of filling water into the inlet hose, emphasizing the use of a foot valve and recommended hose specifications.

- **Recommended Suction Hose:** Use a hose with a diameter of 1 inch or larger.
- **Length:** Keep the hose length less than 50 feet for optimal performance.
- **Sealing:** Apply thread tape to all threaded connections to prevent leaks and ensure a tight seal.
- **Foot Valve:** A foot valve must be installed at the end of the inlet hose to prevent water from flowing back out.

#### 4.2. Filling Enough Water into the Pump Head

After filling the inlet hose, ensure the pump head itself is also filled with water (primed) before starting the pump.



Image: Diagram illustrating how to fill the pump head with water (more than 4 liters recommended) to ensure proper priming.

- Remove the priming plug on top of the pump head.
- Pour at least 4 liters of clean water into the pump head until it is completely full.
- Replace the priming plug securely.

## 5. OPERATING INSTRUCTIONS

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

### 5.1. During Use

Ensure the inlet pipe is not excessively bent and the end is fully submerged in the water source.



Image: Diagram showing correct and incorrect inlet pipe bending, and the requirement for the inlet end to be completely submerged.

## 5.2. Automatic Pressure Sensor

The pump features a smart pressure control system for automatic operation.



Image: A man watering a garden, illustrating the pump's automatic stop and thermo stop features for safety and efficiency.



Image: Detailed diagrams explaining the automatic pressure sensor's function (auto-stop when no water flow for 10 seconds, restarts when pressure drops) and the built-in prefilter's role in cleaning water.

- The pump will automatically switch off if the water flow stops for more than 10 seconds.

- It will automatically switch back on as soon as the water pressure has dropped sufficiently (e.g., when a faucet is opened).

### 5.3. Built-in Prefilter

The integrated prefilter helps protect the pump and ensures cleaner water output.



Image: Close-up view of the transparent prefilter, showing its internal mechanism for removing impurities from the water.

- The prefilter design makes it easy to remove most impurities when pumping water from ponds or lakes.
- This protects the pump from abrasion, extending its service lifetime.

### 5.4. Smart Control Panel and Cooling

The pump features an intuitive control panel and an efficient cooling system.



Image: Diagrams detailing the smart control panel with indicator lights (Power on, Working, Dry running/troubleshooting, Switch off) and the cooling vent design for heat dissipation.

- The control panel includes a power switch and indicator lights for easy monitoring of pump status.
- A reinforced thermoplastic construction and overheat protection ensure the pump will not burn out.
- The cooling vent design offers strong heat dissipation and quieter operation for continuous use.

## 6. MAINTENANCE

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

### 6.1. After Use

If the pump is not used frequently, it is important to discharge any remaining waste water.



23ft Suction Hose

Image: Diagram showing how to drain the pump by unscrewing the drain plug at the bottom, ensuring all water is discharged.

- Unscrew the drain plug located at the bottom of the pump to completely drain any water.
- Clean the prefilter regularly to prevent clogging and maintain efficient water flow. Use the provided wrench for easy access.
- Store the pump in a dry, frost-free location when not in use for extended periods.

## 7. TROUBLESHOOTING

Refer to the following common questions and answers for troubleshooting issues:



Water Heater Descaler Kit

Image: Q&A section addressing recommended suction hose type and the pump's behavior after dry-run detection cycles.

- **Q: Which type of suction hose is recommended?**  
A: A 1-inch diameter or larger, corrugated flexible hose pipe with an end valve, with a length less than 50 feet, is ideal. PVC clear vinyl tubing is not suitable.
- **Q: Will this pump stay in automatic mode after the 3 loops of dry cycles?**  
A: No, if no inlet water is detected, the pump will enter standby mode after three dry-run detection cycles. You need to physically press the power button to restart the pump.



Image: Q&A section explaining the meaning of the three indicator lights on the control panel and the pump's waterproof rating.

• **Q: What do these three indicator lights represent?**

A:

- a. Green light up: The device is powered on.
- b. Yellow light up: The pump is in working condition.
- c. Red light up continuously: Dry running protection. Red light flash: The pump switches off (standby mode).

• **Q: What is its waterproof rating?**

A: IPX4.

## 8. SPECIFICATIONS

Detailed technical specifications for the FLUENTPOWER 1.5HP Automatic Garden Booster Pump:



The image shows a grey and black garden booster pump with a yellow handle and a red and grey hose, sitting on a wooden deck. In the background, a man is watering a garden with a hose. The Fluentpower logo is in the top left corner.

Max Flow	Max Lift	Max Suction	Max Amps	Max Pressure	<b>1.5HP</b> 110V/60Hz
1300GPH	150FT	26FT	9.2A	4.5Bar	

Image: The pump displaying key performance metrics such as Max Flow (1300 GPH), Max Lift (150 FT), Max Suction (26 FT), Max Amps (9.2A), and Max Pressure (4.5 Bar).

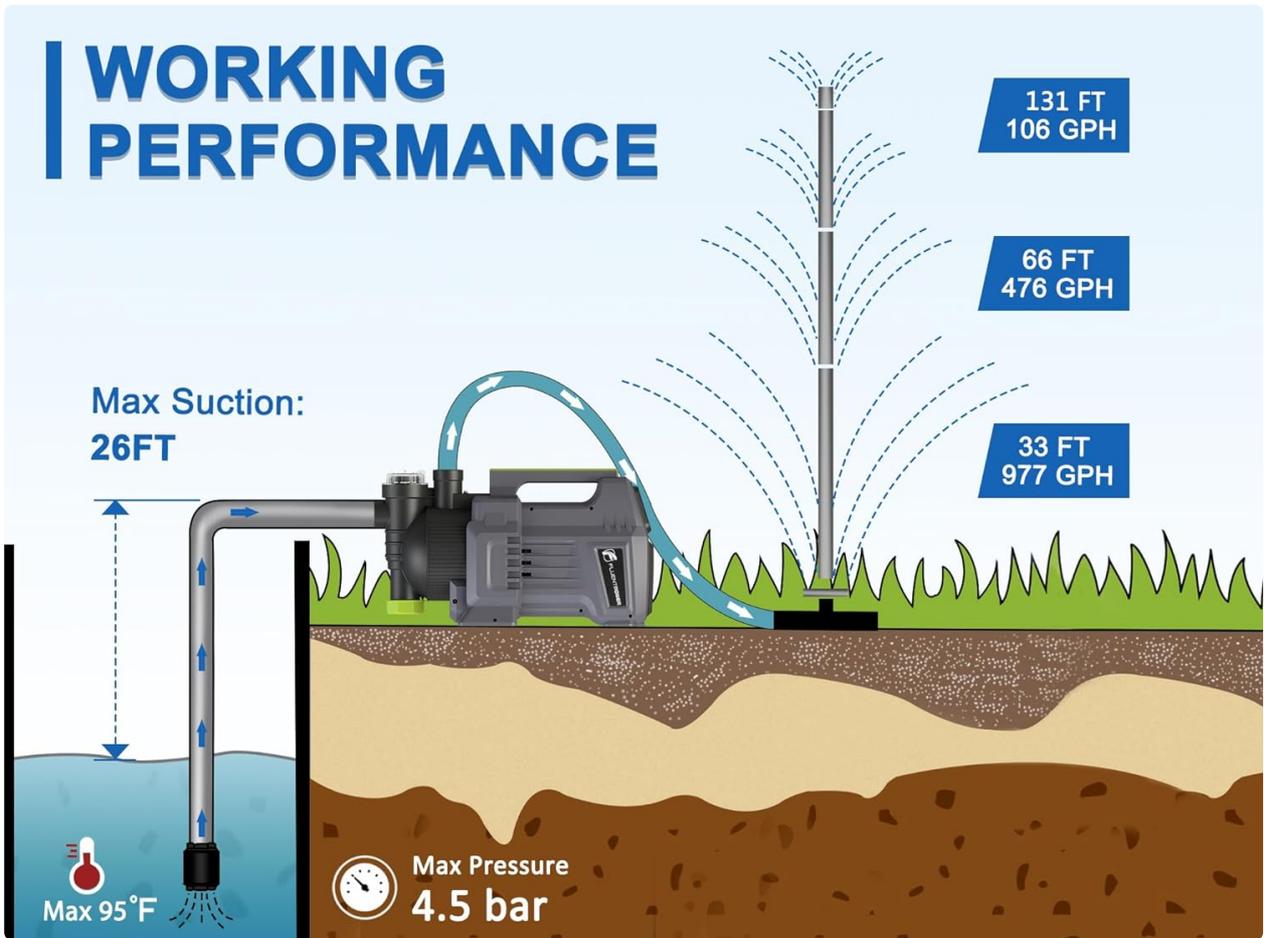


Image: A diagram illustrating the pump's working performance, showing suction depth and water delivery at various heights and corresponding GPH.



Image: A dimensional view of the pump, indicating its length (18.9 in), width (8.5 in), and height (10.9 in), along with its weight (23.6 lbs).

Specification	Value
Brand	FLUENTPOWER
Model Number	FSGP1300S
Power Source	Corded Electric
Voltage	110 Volts
Motor Horsepower	1.5 HP

Specification	Value
Maximum Flow Rate	1300 GPH (22 Gallons Per Minute)
Maximum Lifting Height	150 Feet
Maximum Suction Depth	26 Feet
Maximum Output Pressure	65 PSI (4.5 Bar)
Item Weight	23.6 Pounds
Product Dimensions	18.9"L x 8.5"W x 10.9"H
Material	Plastic
Color	Green and Grey
Waterproof Rating	IPX4

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official FLUENTPOWER website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims. For additional assistance or inquiries, please visit the [FLUENTPOWER Store on Amazon](#).