FOTING 1/2 HP 2450 GPH

FOTING 1/2HP Submersible Water Pump User Manual

Model: 1/2 HP 2450 GPH

1. Product Overview

The FOTING 1/2HP Submersible Water Pump is a versatile and portable solution designed for efficient water removal. It is ideal for draining small puddles, pools, boats, gardens, ponds, and flooded basements. Engineered for powerful performance and durability, this pump can remove water down to a minimum suction level of 0.04 inches.



Figure 1: FOTING 1/2HP Submersible Water Pump with various hose adapters.



Figure 2: Common applications for the FOTING Submersible Water Pump, including garden ponds, swimming pools, and flooded areas.

2. Safety Information

Please read all safety instructions carefully before operating the pump to ensure safe and efficient use.

- This pump operates on 115 Volts AC power. Ensure your power source matches this requirement.
- The pump is designed for manual operation only and does not support automatic start/stop functions.
- Always tilt and submerge the pump in water for a few seconds before starting to expel any trapped air inside. This prevents dry running and potential damage.
- Do not operate the pump in water exceeding 95°F (35°C).
- The pump has an IPX8 water resistance rating, indicating it is suitable for continuous submersion in water.
- Always lift the pump using its designated handle.**Never pull the pump by its power cord**, as this can damage the cord and create an electrical hazard.



Figure 3: Important handling instructions: Always use the handle for lifting; never pull by the power cord.

3. Package Contents

Verify that all items are present in the package:

- FOTING 1/2HP Submersible Water Pump
- 10 FT Power Cord (attached to pump)
- 3/4" Garden Hose Adapter
- GHT 1-1/2" Adapter
- Multi-Hose Adapter (fits Φ1-1/2", NPT1", and Φ1" hoses)



Figure 4: Key components of the FOTING Submersible Water Pump.

4. Setup

Follow these steps to set up your FOTING Submersible Water Pump:

1. **Select Appropriate Hose:** Choose a hose suitable for your drainage needs. The pump comes with three adapters to accommodate various hose sizes:
    - 3/4" Garden Hose Adapter
    - GHT 1-1/2" Adapter
    - Multi-Hose Adapter (compatible with Φ1-1/2", NPT1", and Φ1" hoses)
2. **Attach Hose:** Securely attach the chosen adapter to the pump's outlet, then connect your drainage hose to the adapter. Ensure all connections are tight to prevent leaks.
3. **Position Pump:** Place the pump in the area where water needs to be removed. Ensure the pump is fully submerged in the water for optimal operation.

4. **Prepare for Operation:** Before plugging in, tilt the pump slightly to allow any trapped air to escape. This primes the pump and ensures smooth startup.



Figure 5: Different hose connection methods and compatible adapters.

5. Operating Instructions

Operating the FOTING Submersible Water Pump is straightforward:

1. **Submerge and Prime:** Ensure the pump is fully submerged in the water. As mentioned in Safety, tilt it briefly to release air.
2. **Connect Power:** Plug the 10-foot power cord into a compatible 115V AC electrical outlet. The pump will begin operating immediately as it is a manual pump and does not have an on/off switch or automatic start/stop feature.
3. **Monitor Drainage:** Allow the pump to operate until the desired water level is reached. The pump can remove water down to a minimum suction level of 0.04 inches. It can handle solids up to 1/5 inch in diameter.
4. **Disconnect Power:** Once drainage is complete, unplug the pump from the power outlet to stop operation.



Figure 6: The pump in operation, demonstrating its ability to handle particles up to 1/5 inch.



Figure 7: The FOTING pump's capability to remove water down to 0.04 inches.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your FOTING pump:

- **Clean Inlet Screen:** The pump features a removable stainless steel inlet screen. Periodically inspect and clean this screen to prevent debris like leaves or stones from clogging the pump and causing damage.
- **Storage:** When not in use, clean the pump thoroughly and store it in a dry, protected area away from extreme temperatures.



Figure 8: The removable stainless steel inlet screen, designed for easy cleaning and debris filtration.

7. Troubleshooting

If you encounter issues with your FOTING Submersible Water Pump, consider the following:

- **Pump Not Starting:**
  - Ensure the pump is properly plugged into a functioning 115V AC outlet.
  - Verify that the pump is fully submerged and has been tilted to release any trapped air.
  - Check for any visible damage to the power cord or pump body.
- **Reduced Flow or No Water Output:**
  - Inspect the inlet screen for blockages from debris. Clean if necessary.
  - Ensure the discharge hose is not kinked or obstructed.
  - Confirm the water level is sufficient for the pump to operate effectively (minimum 0.04 inches).

For more detailed troubleshooting, please refer to the officialTroubleshooting Guide (PDF).

8. Specifications

Feature	Detail
Brand	FOTING
Model	1/2 HP 2450 GPH
Color	Blue + Black
Material	Thermoplastic
Product Dimensions (L x W x H)	6.3" x 6.3" x 10.24"
Power Source	AC
Voltage	115 Volts
Horsepower	0.5 hp
Max. Flow Rate	2450 GPH
Max. Lifting Height	25 Feet
Min. Suction Level	0.04 inches
Max. Grain Size	1/5 inch
Power Cord Length	10 Feet
Item Weight	8.14 pounds



Figure 9: Detailed specifications of the FOTING 1/2HP Submersible Water Pump.

9. Warranty and Support

FOTING stands behind the quality of its products. Your FOTING Submersible Water Pump comes with a **3-year after-sales service warranty**.

If you encounter any problems or have questions regarding your pump, please do not hesitate to contact FOTING customer support. Our team is available online 7 days a week, 24 hours a day, to provide assistance.

For contact information, please refer to the product packaging or the official FOTING website.

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