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› FOTING 12-inch Sand Filter Pump with Timer (Model: FT-CLP2502) Instruction Manual

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For Above Ground Pools - 1/2HP, 3000 GPH

1. SAFETY INFORMATION

Read and understand all instructions before installing or operating this product. Failure to follow these instructions could result in serious injury or death.

- Always disconnect power to the pump before performing any service or maintenance.
- Ensure the pump is installed on a solid, level surface to prevent tipping.
- Do not operate the pump if the power cord is damaged. Contact qualified service personnel for repair.
- Keep children away from the pump and filter system during operation.
- This pump is designed for above-ground pools only. Do not use for in-ground pools or other applications.
- Never run the pump dry. Ensure the pump is primed with water before starting.
- Always turn off the pump before changing the multi-port valve's position.

2. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Sand Filter Tank (12-inch)
- Pump Unit (1/2HP, 3000 GPH)
- 7-Way Multi-Port Valve
- Pressure Gauge
- Hose Adapters (for 1.25" and 1.5" hoses)
- Hose Clamps
- Filter Media (200g filter balls included, or use sand)
- Base Platform
- Drain Valve Assembly
- Internal Filter Assembly (laterals, standpipe)

- O-rings and Gaskets
- Connecting Hoses

Video: FOTING Sand Filter Pump Installation Video (0:03 - 0:05) showing all parts included in the package.

3. SPECIFICATIONS

Feature	Detail
Brand	FOTING
Model Number	FT-CLP2502
Tank Size	12 inch
Horsepower (HP)	1/2 HP
Max Flow Rate	3000 GPH
Recommended Pool Size	Up to 8,000 Gallons
Sand Capacity	44 lbs (or 200g filter balls)
Multi-Port Valve	7-Way
Timer	24-hour Dual-Mode Smart Timer
Hose Compatibility	1.25" or 1.5"
Waterproof Rating	IPX4



Image: FOTING 12-inch Sand Filter Pump showing key specifications like 1/2 HP, 3000 GPH, and 8000 GAL pool capacity.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your FOTING Sand Filter Pump:

4.1 Assemble the Filter Tank

1. **Secure the Base and Sand Filter Tank:** Place the blue filter tank onto the black base platform. Ensure it is stable.

Video: FOTING Sand Filter Pump Installation Video (0:07 - 0:10) demonstrating how to secure the tank to the base.

2. **Secure the Drain Valve:** Install the drain valve at the bottom of the filter tank. Ensure the O-ring is properly seated for a watertight seal.

Video: FOTING Sand Filter Pump Installation Video (0:11 - 0:26) showing drain valve installation.

3. **Insert Filter Assembly:** Carefully place the internal filter assembly (with laterals and standpipe) into the sand filter tank.

Video: FOTING Sand Filter Pump Installation Video (0:27 - 0:29) demonstrating filter assembly insertion.

4. **Secure the Neck Fitting:** Place the neck fitting over the standpipe opening. This prevents filter media from entering the water pipe.

Video: FOTING Sand Filter Pump Installation Video (0:30 - 0:31) showing neck fitting installation.

5. **Add Filter Media:** Carefully add the filter media (sand or filter balls) into the tank. For this 12-inch model, use 44 lbs of sand or the included 200g filter balls.



Image: Filter balls being added to the filter tank. The tank can hold 44 lbs of sand or 200g of filter balls.

Video: FOTING Sand Filter Pump Installation Video (0:32 - 0:36) demonstrating adding filter media.

6. **Install the Multi-Port Valve:** Remove the neck fitting. Ensure the O-ring is correctly placed on the valve. Carefully place the 7-way multi-port valve onto the filter tank, aligning the "align" arrows on the valve and the tank.

Video: FOTING Sand Filter Pump Installation Video (0:37 - 0:45) showing valve installation.

7. **Secure the Flange Clamp:** Place the flange clamp around the valve and tank connection. Tighten the screws securely to create a tight seal.

Video: FOTING Sand Filter Pump Installation Video (0:46 - 1:03) demonstrating flange clamp installation.

8. **Install the Pressure Gauge:** Screw the pressure gauge into its designated port on the multi-port valve.

Video: FOTING Sand Filter Pump Installation Video (1:04 - 1:12) showing pressure gauge installation.

4.2 Prepare the Pump Unit

1. **Apply Teflon Tape:** Wrap all threaded connections on the hose adapters with Teflon tape for a tight seal.

Video: FOTING Sand Filter Pump Installation Video (1:13 - 1:21) demonstrating Teflon tape application.

2. **Install Hose Adapters:** Install the hose adapters with O-rings at the pump inlet and outlet.

Video: FOTING Sand Filter Pump Installation Video (1:31 - 1:38) showing hose adapter installation.

3. **Install Plug with O-ring:** Install the plug with an O-ring into the appropriate port on the multi-port valve.

Video: FOTING Sand Filter Pump Installation Video (1:25 - 1:30) showing plug installation.

4. **Secure Pump on Base:** Place the pump unit onto the base platform, ensuring it is securely seated.

Video: FOTING Sand Filter Pump Installation Video (1:39 - 1:40) demonstrating pump placement on the base.

4.3 Connect Hoses

1. **Connect Hoses:** Connect the provided hoses between the pump and the multi-port valve, and from the pump/valve to your pool's inlet and outlet. Use hose clamps to secure all connections.

STANDARD CONNECTION

Thanks to the adapter provided, pool hoses can be connected without any problems.



2-IN-1 ADAPTER

Suitable for all pool hoses with the following diameters
1.25" = 32mm
1.5" = 38mm

A HOSE HOLE

Included for connecting the pump and tank





STABLE & SAFE

Robust base guarantees more stability



METAL RINGS

Additional clamping ring and stainless steel pipe clamps



Image: A person connecting hoses to the sand filter pump system, illustrating the standard connection process.

Video: FOTING Sand Filter Pump Installation Video (1:41 - 1:48) showing hose connection and tightening.

5. OPERATING INSTRUCTIONS

5.1 Multi-Port Valve Functions

The 7-way multi-port valve allows for various operational modes. Always turn off the pump before changing the valve position.

- **Filter:** Standard operation for cleaning pool water.
- **Backwash:** Reverses water flow to clean the filter media.
- **Rinse:** Used after backwashing to flush debris from the valve.
- **Waste:** Drains pool water directly, bypassing the filter.
- **Closed:** Stops water flow to the filter. Never use while the pump is running.
- **Recirculate:** Mixes pool water without filtering.
- **Winter:** Prevents the filter valve from freezing during winter storage.



VERSATILE 7-WAY VALVE

Discover the practical and highly efficient advantages of the FOTING sand filter system.

- [01] FILTER**
Clean water through sand
- [02] BACKWASH**
Reverse flow to clean filter
- [03] RINSE**
Clear debris after backwashing
- [04] WASTE**
Remove pool water directly
- [05] CLOSED**
Stop water flow (Never use while pump is on)
- [06] RECIRCULATE**
Mix pool water without filtering
- [07] WINTER**
Prevent the filter valve from freezing in winter

Image: Detailed view of the 7-way multi-port valve, explaining each function (Filter, Backwash, Rinse, Waste, Closed, Recirculate, Winter).

5.2 24-Hour Dual-Mode Smart Timer

The built-in timer allows for automated filtration cycles.

- **Single-Cycle Mode:** Customize the duration for a single filtration operation.
- **Continuous-Cycle Mode:** The pump will automatically turn on/off daily according to your set schedule.

24-Hour Dual-Mode Smart Timer

Achieve cost-efficiency & labor-saving results



**Single
Cycle Mode**



**Continuous
Cycle Mode**



**Convenient
Operation**



**Off-peak
Cost Savings**

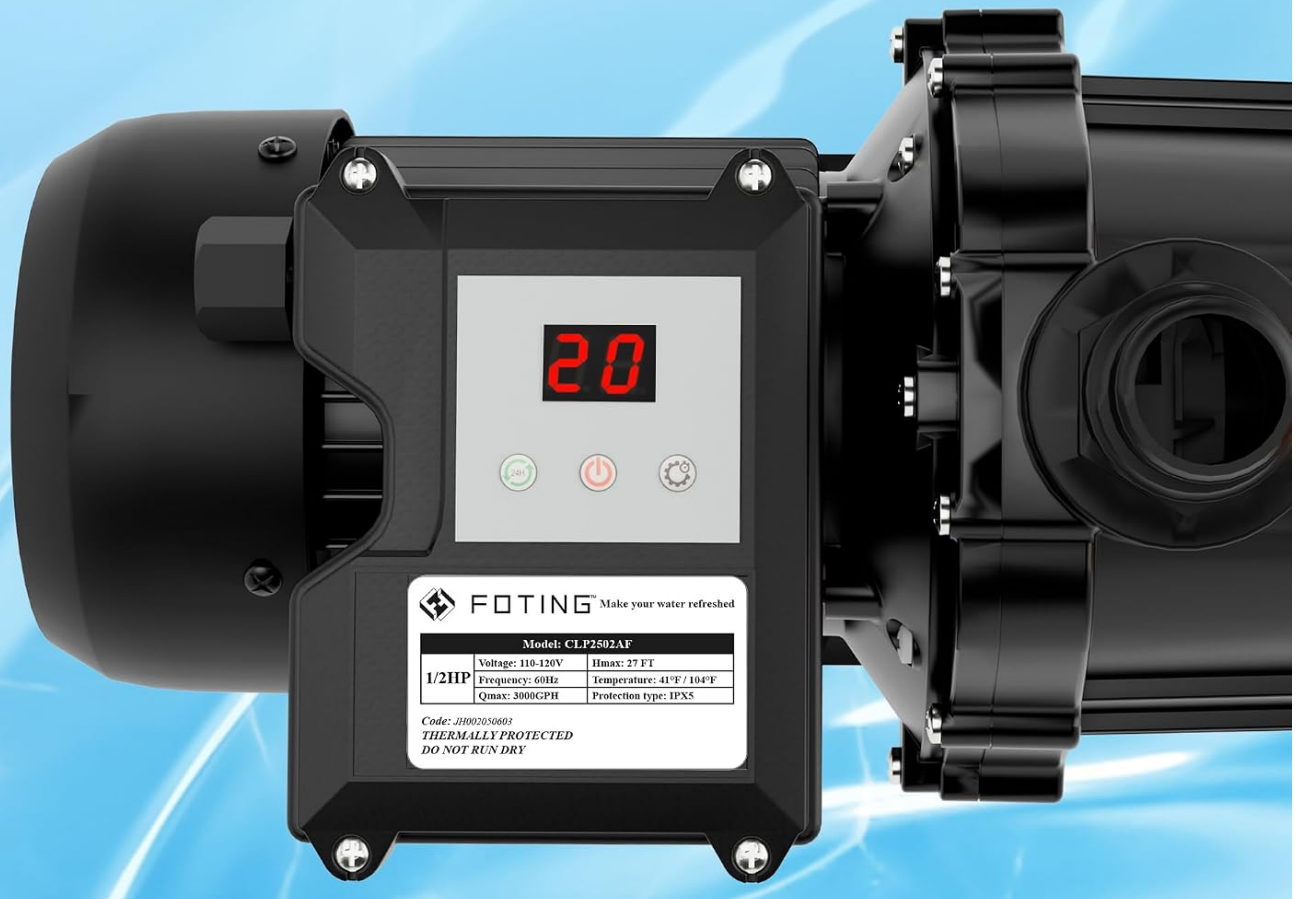


Image: The pump's control panel, highlighting the 24-hour dual-mode smart timer for setting filtration schedules.

Video: Sand Filter Pump for Above Ground Pool (0:09 - 0:13) showing the timer in use.

6. MAINTENANCE

- **Regular Backwashing:** Perform backwashing when the pressure gauge reading is 8-10 PSI above the clean filter pressure, or when water flow decreases significantly.
- **Rinse After Backwashing:** Always rinse the filter after backwashing to prevent dirty water from returning to the pool.

- **Filter Media Replacement:** Replace sand filter media every 3-5 years, or filter balls as needed based on condition and performance.
- **Winterization:** Before storing the pump in winter, unscrew the bottom drain plug to remove all remaining water. This prevents freezing damage.

Video: FOTING Sand Filter Pump Installation Video (1:49 - 1:52) showing how to unscrew the bottom drain plug for winter storage.
- **Pump Basket Cleaning:** Periodically clean the pump's strainer basket to remove large debris and maintain optimal flow.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not starting	No power, tripped breaker, motor issue.	Check power supply, reset breaker. Consult a qualified electrician if motor issues persist.
Low water flow	Clogged strainer basket, dirty filter media, air leak in suction line.	Clean strainer basket. Backwash/rinse filter. Check all connections for air leaks.
Water not clearing	Insufficient filtration time, dirty filter media, incorrect chemical balance.	Increase filtration time. Backwash/rinse filter. Test and adjust pool chemicals.
Water leaking from connections	Loose connections, worn O-rings/gaskets, insufficient Teflon tape.	Tighten all connections. Inspect and replace O-rings/gaskets if damaged. Reapply Teflon tape.
Pump making unusual noise	Air in the system, cavitation, debris in impeller.	Bleed air from the system. Ensure adequate water supply to pump. Inspect impeller for obstructions.

8. WARRANTY AND SUPPORT

FOTING products are manufactured with quality and durability in mind. For specific warranty details, please refer to the warranty card included with your product or contact FOTING customer service.

FOTING customer service provides professional technical support to ensure your water system remains stable and worry-free.

For assistance, please visit the official FOTING website or contact their support team directly.

ASK A QUESTION ABOUT THIS MANUAL

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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