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> AQUASTRONG SFPV121T 12-inch Sand Filter Pump for Above Ground Pools with Timer - User Manual

AQUASTRONG SFPV121T

AQUASTRONG SFPV121T 12-inch Sand Filter Pump User Manual

Model: SFPV121T

INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your AQUASTRONG SFPV121T 12-inch Sand Filter Pump. This system is designed for above-ground pools up to 11000 gallons, offering a 3000 GPH flow rate and a versatile 6-way valve for efficient water circulation and filtration. Please read this manual thoroughly before use and retain it for future reference.

SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of injury, fire, electric shock, or property damage. This appliance is not intended for use by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

- Disconnect power before servicing.
- Ensure proper grounding to prevent electric shock.
- Do not operate the pump if the power cord is damaged.
- Keep children away from the pump and filter system.
- Always stop the pump before switching the 6-way valve position.
- Install the pump on a solid, level surface.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. The AQUASTRONG SFPV121T is designed for hassle-free setup and is compatible with various above-ground pools, including Intex and Bestway, using the provided adapters.

Unboxing and Component Check

Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present and undamaged. Contact customer support immediately if any parts are missing or damaged.

Assembly Steps

1. **Secure the pump on the base:** Place the pump unit securely onto its designated base.
2. **Add filter sand or balls:** Remove the top valve assembly. Insert the provided plastic insert into the center pipe to prevent sand from entering. Carefully add 50 lbs of filter sand or 1.5 lbs of filter balls into the tank. Ensure the sand/balls are evenly distributed. Remove the plastic insert.
3. **Install the valve:** Place the 6-way valve assembly onto the tank, ensuring it aligns correctly with the center pipe. Secure it with the provided clamp.
4. **Connect hoses:** Use the included 1.5-inch and 1.25-inch hose adapters and conversion kits to connect the pump to your pool's inlet and outlet ports. Ensure all connections are tight and use Teflon tape on threaded connections to prevent leaks.



Figure 1: AQUASTRONG Sand Filter Pump installed next to an above-ground pool.



Figure 2: Dimensions of the AQUASTRONG 12-inch Sand Filter Pump.

Installation Video Guide

Your browser does not support the video tag.

Video 1: AQUASTRONG Sand Filter Pump Installation Quick Guide. This video provides a visual walkthrough of the installation process, including hose connections and valve setup.

OPERATING INSTRUCTIONS

The AQUASTRONG sand filter pump features a user-friendly 6-way valve and a programmable timer for automated operation.

6-Way Valve Functions

The multi-port valve allows you to perform various pool maintenance tasks. **Always turn off the pump before changing the valve position.**

- **FILTER:** Normal filtering operation. Water passes through the filter media and returns to the pool.
- **WASTE:** Bypasses the filter, sending water directly out of the waste port. Used for vacuuming heavy debris or lowering pool water level.
- **CLOSED:** Shuts off all flow to the filter and pump. Use this setting when performing maintenance on the pump or filter.
- **BACKWASH:** Reverses water flow through the filter to clean the filter media. Water is discharged through the waste port.
- **RECIRCULATE:** Circulates water through the pump and valve, bypassing the filter. Useful for mixing chemicals without filtering.
- **RINSE:** Used after backwashing to flush out any remaining debris from the filter lines before returning to FILTER mode.

6 Valve Functions

STOP PUMP BEFORE SWITCHING VALVE POSITION



Figure 3: The 6-Way Valve with its various functions.



Figure 4: Water flow diagram for the sand filter system.

Programmable Timer

The built-in 24-hour programmable timer allows you to automate filtration cycles. It features 9 settings (2 to 24 hours) for optimal efficiency.

1. **Set Duration:** Press the 'TIMER' button to select the desired running duration from the current time.
2. **Enable Schedule:** Press the 'ON/OFF' button to activate the programmed schedule.

The pump will automatically start at the same time daily according to your set duration.

Built-in Automatic Timer



AQUASTRONG®

Figure 5: Setting the programmable timer on the pump.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your sand filter pump.

Backwashing and Rinsing

When the pressure gauge reading increases by 8-10 PSI above its clean operating pressure, or when water flow to the pool noticeably decreases, it's time to backwash the filter.

1. Turn off the pump.
2. Set the 6-way valve to 'BACKWASH'.
3. Turn on the pump and run until the water flowing out of the waste port is clear (typically 1-2 minutes).
4. Turn off the pump.
5. Set the 6-way valve to 'RINSE'.
6. Turn on the pump and run for 30-60 seconds to flush the lines.

- 7. Turn off the pump.
- 8. Set the 6-way valve back to 'FILTER'.
- 9. Turn on the pump to resume normal filtration.

Pump Basket Cleaning

The pump features a detachable basket design to collect larger debris like leaves and hair before they reach the filter. Regularly check and clean the basket to maintain optimal flow and prevent pump damage.

- 1. Turn off the pump and close any necessary valves to prevent water flow.
- 2. Unscrew the clear lid on the pump housing.
- 3. Remove the basket and empty any collected debris.
- 4. Rinse the basket thoroughly.
- 5. Replace the basket and secure the lid, ensuring the O-ring is properly seated for a watertight seal.
- 6. Open valves and restart the pump.

TROUBLESHOOTING

This section addresses common issues you might encounter with your sand filter pump.

Problem	Possible Cause	Solution
Low water flow / Poor filtration	Clogged filter media; Clogged pump basket; Air leak in suction line; Low water level in pool.	Perform backwash and rinse cycle; Clean pump basket; Check all connections for tightness; Ensure adequate pool water level.
Water leaking from connections	Loose connections; Damaged O-rings/gaskets; Insufficient Teflon tape on threaded fittings.	Tighten all hose clamps and threaded connections; Inspect and replace damaged O-rings/gaskets; Reapply Teflon tape to threaded fittings.
Pump not starting	No power; Motor overload; Impeller jammed.	Check power supply and circuit breaker; Allow motor to cool and reset; Inspect impeller for debris and clear if necessary.
Timer not functioning as expected	Incorrect timer setting; Power interruption.	Review and reset timer settings according to instructions; Ensure continuous power supply.

SPECIFICATIONS

Feature	Detail
Brand	AQUASTRONG
Model Number	SFPV121T
Horsepower	0.67 HP (2/3 HP)
Pump Flow Rate	3000 GPH
System Flow Rate	2200 GPH
Recommended Pool Size	Up to 11000 Gallons
Filter Tank Size	12 inches

Feature	Detail
Sand Capacity	50 lbs
Filter Ball Capacity	1.5 lbs
Valve Type	6-Way Multi-Port Valve
Timer	24-Hour Programmable (9 settings)
Power Source	AC
Item Weight	12.7 kg

WARRANTY INFORMATION

The AQUASTRONG SFPV121T sand filter pump comes with a two-year warranty from the date of purchase. This warranty covers manufacturing defects and ensures peace of mind regarding the product's quality and performance. Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For any questions, technical assistance, or warranty claims, please contact AQUASTRONG customer support. Refer to the contact information provided with your product packaging or visit the official AQUASTRONG website for support details.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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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