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› AQUASTRONG SFPV120T Sand Filter Pump Instruction Manual

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AQUASTRONG SFPV120T Sand Filter Pump Instruction Manual

For Above Ground Pools up to 9000 Gallons

1. INTRODUCTION

This manual provides essential instructions for the safe operation, installation, and maintenance of your AQUASTRONG SFPV120T Sand Filter Pump. Designed for above-ground pools up to 9000 gallons, this system features a 1/2 HP pump, a 12-inch sand filter with a 6-way valve, and an integrated 24-hour programmable timer to ensure clear and clean pool water.



Figure 1: AQUASTRONG 12-inch Sand Filter Pump with Timer

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before installing or operating this product. Failure to follow these instructions could result in serious injury or property damage.

- **Electrical Safety:** Always disconnect power to the pump before performing any maintenance or service. Ensure the pump is connected to a grounded outlet protected by a Ground Fault Circuit Interrupter (GFCI). Do not use extension cords.
- **Water and Chemicals:** Keep all electrical components away from water. Handle pool chemicals according to manufacturer instructions.
- **Children:** Keep children away from the pool equipment area.
- **Pressure:** Do not operate the pump if any part of the system is damaged or leaking. Never attempt to open the filter tank or pump while the system is under pressure.
- **Installation:** Ensure the pump is installed on a solid, level surface. Follow all local electrical and plumbing codes.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- AQUASTRONG Sand Filter Tank (12-inch)
- 1/2 HP Pool Pump with integrated timer
- 6-Way Multi-Port Valve
- Pressure Gauge
- Three 1.5-inch and 1.25-inch Hose Adapters with clamps
- Five 1.5-inch Adapter Conversion Kit
- Interconnecting Hose (Pump to Valve)
- User Manual

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Refer to the detailed installation video for visual guidance.

Your browser does not support the video tag.

Video 1: AQUASTRONG Sand Filter Pump Installation Quick Guide. This video demonstrates the step-by-step process for setting up your sand filter pump.

4.1 Site Preparation

- Choose a level, firm location for the pump and filter, preferably on a concrete slab or sturdy base.
- Ensure the location is easily accessible for maintenance and away from direct sunlight if possible to prolong plastic component life.
- Maintain adequate ventilation around the unit.

4.2 Assembling the Filter and Pump

1. **Secure the pump on the base:** Place the pump and filter tank onto the provided base.
2. **Add filter media:** Remove the multi-port valve from the top of the filter tank. Insert the standpipe with the sand guard. Carefully add 50 lbs of filter sand or 1.5 lbs of filter balls into the tank. Ensure the standpipe remains centered during this process.
3. **Install the valve:** Clean the tank opening and the O-ring on the multi-port valve. Securely attach the 6-way valve to the top of the filter tank using the provided clamp. Ensure a tight seal to prevent leaks.
4. **Connect Hoses:**
 - Connect the pump outlet to the "PUMP" inlet on the 6-way valve using the interconnecting hose.
 - Connect the pool's return line to the "RETURN" port on the valve.
 - Connect the pool's skimmer/main drain line to the pump's inlet.
 - Connect a backwash hose to the "WASTE" port on the valve.
5. **Apply Teflon Tape:** For all threaded adapters, wrap 2-3 full turns of Teflon tape clockwise, covering the entire thread length before installation to ensure a watertight connection.

Fits All Above-Ground Pools

1.5" Adapter
Conversion Kit

1.25" & 1.5" Hose
Adapter

*Suitable for Intex & Bestway Pools

Figure 2: The filter includes various hose adapters (1.25" & 1.5") and a 1.5" adapter conversion kit for compatibility with most above-ground pools.



Figure 3: Visual guide for the 4-step installation process.

5. OPERATING INSTRUCTIONS

Understand the functions of the 6-way valve and how to use the integrated timer for efficient pool filtration.

Your browser does not support the video tag.

Video 2: AQUASTROM 12 Inch Sand Filter Pump Overview. This video provides a general overview of the pump's features and operation.

5.1 6-Way Multi-Port Valve Functions

IMPORTANT: Always turn off the pump before changing the valve position to prevent damage to the system.

- **FILTER:** Normal filtration mode. Water flows through the filter media and returns to the pool.
- **BACKWASH:** Reverses water flow through the filter to clean the filter media. Water is discharged through the waste port.
- **RINSE:** Used after backwashing to flush out any remaining debris from the filter lines before returning to FILTER mode. Water is discharged through the waste port.
- **WASTE:** Bypasses the filter and sends water directly out the waste port. Useful for vacuuming heavy debris directly to

waste or lowering pool water level.

- **RECIRCULATE:** Bypasses the filter and circulates water directly back to the pool. Useful for mixing chemicals without filtering.
- **CLOSED:** Shuts off all flow to the filter and pump. Use this setting when performing maintenance on the pump or filter.



Figure 4: Detailed explanation of the 6-way valve functions.

5.2 Programmable Timer

The integrated timer allows you to automate filtration cycles for optimal efficiency. It offers 9 settings from 2 to 24 hours.

1. **Set Duration:** Press the 'TIMER' button to select the desired filtration duration (2 to 24 hours).
2. **Enable Schedule:** Press the 'ON/OFF' button to activate the schedule. The pump will start automatically at the same time daily.

Built-in Automatic Timer



Figure 5: Instructions for setting the 24-hour programmable timer.

6. MAINTENANCE

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

- **Backwashing:** When the pressure gauge reading increases by 8-10 PSI above its clean operating pressure, it's time to backwash.
 - a. Turn off the pump.
 - b. Set the 6-way valve to "BACKWASH".
 - c. Turn on the pump and run until the water flowing out of the waste port is clear (typically 1-2 minutes).
 - d. Turn off the pump.
 - e. Set the 6-way valve to "RINSE".
 - f. Turn on the pump and run for 30-60 seconds.
 - g. Turn off the pump.
 - h. Set the 6-way valve to "FILTER" and restart the pump for normal operation.

- **Cleaning the Strainer Basket:** Periodically check and clean the pump's detachable strainer basket to remove large debris like leaves and hair.
 - a. Turn off the pump and close any necessary valves to prevent water flow.
 - b. Unscrew the pump lid and remove the basket.
 - c. Empty and rinse the basket.
 - d. Inspect the O-ring on the lid for damage and ensure it is clean before reassembling.
- **Winterization:** Before freezing temperatures, drain all water from the pump, filter, and hoses. Store components in a dry, protected area.

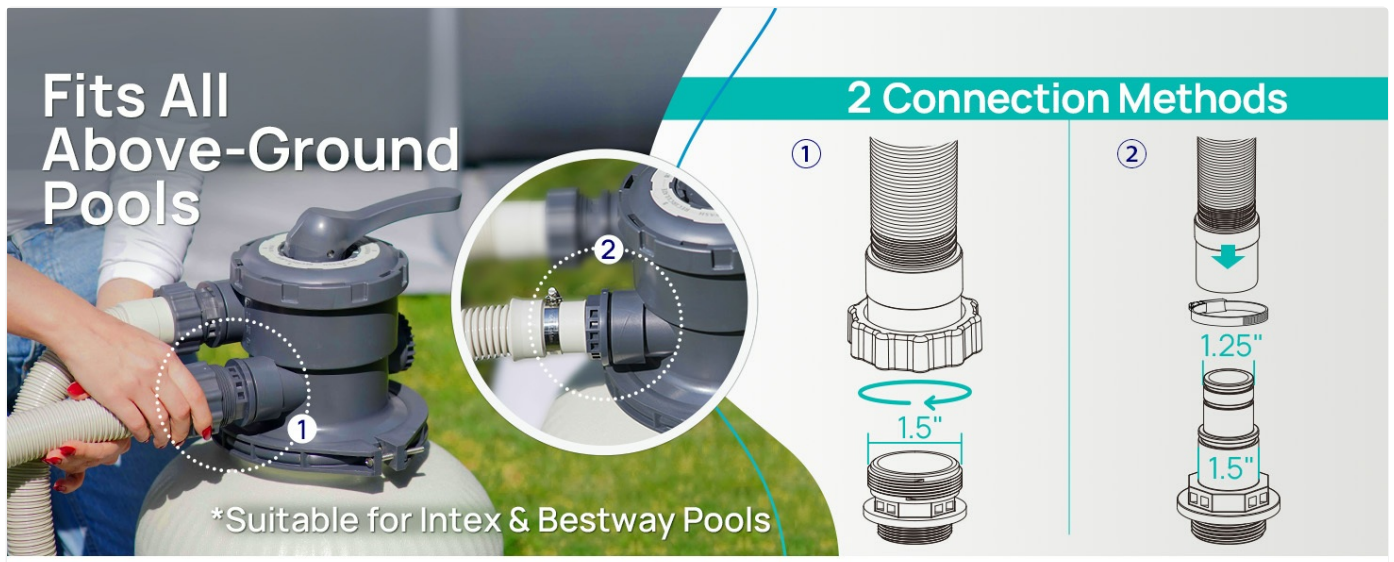


Figure 6: The detachable basket design allows for easy removal and cleaning of debris.



Figure 7: The integrated pressure gauge helps monitor filter performance and indicates when backwashing is needed.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump not starting or running	No power, tripped GFCI, motor issue.	Check power connection, reset GFCI, consult support if motor fails.
Low water flow	Clogged strainer basket, dirty filter media, air in system, closed valve.	Clean basket, backwash/rinse filter, bleed air from system, check valve position.
Water leaking from connections	Loose connections, damaged O-rings/gaskets, insufficient Teflon tape.	Tighten connections, inspect and replace O-rings/gaskets, reapply Teflon tape.
Cloudy pool water	Insufficient filtration time, dirty filter media, improper chemical balance.	Increase filtration time, backwash/rinse filter, test and adjust pool chemicals.
Pressure gauge reading too high	Dirty filter media.	Perform a backwash and rinse cycle.

8. SPECIFICATIONS

Key technical details for the AQUASTRONG SFPV120T Sand Filter Pump.

- **Model Number:** SFPV120T
- **Brand:** AQUASTRONG
- **Horsepower:** 0.5 HP
- **Pump Flow Rate:** 2500 GPH
- **System Flow Rate:** 2000 GPH
- **Filter Tank Size:** 12 inches
- **Recommended Pool Size:** Up to 9000 Gallons
- **Sand Capacity:** 50 lbs
- **Filter Ball Capacity:** 1.5 lbs
- **Valve Type:** 6-Way Multi-Port Valve
- **Timer:** 24-Hour Programmable (9 settings, 2-24 hours)
- **Power Source:** AC
- **Item Weight:** 12.52 Kilograms
- **Specific Uses:** Maintaining and cleaning above-ground pools



Figure 8: Overview of the AQUASTRONG 12-inch Sand Filter Pump's dimensions and specifications.



Figure 9: Pool selection tips, showing different models and their capacities.

9. WARRANTY AND SUPPORT

Your AQUASTRONG Sand Filter Pump is backed by a comprehensive warranty and dedicated customer support.

- **Warranty:** This product comes with a **Two-Year Warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.
- **Customer Support:** For technical assistance, troubleshooting, or warranty inquiries, please contact AquastrongDirect customer service. Refer to your purchase platform or the official AQUASTRONG website for contact details.

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

Anonymous

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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