AQUASTRONG SFPV201ADT

AQUASTRONG SFPV201ADT Sand Filter Pump User Manual

Model: SFPV201ADT | Brand: AQUASTRONG

1. Introduction

Thank you for choosing the AQUASTRONG SFPV201ADT Sand Filter Pump. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new pool filtration system. Please read all instructions carefully before use and retain this manual for future reference.

This sand filter pump is designed for above-ground and in-ground pools up to 21,000 gallons, featuring a powerful dual-speed pump with a built-in timer and a versatile 6-way valve for comprehensive pool water management.

2. Important Safety Information

Always follow basic safety precautions to reduce the risk of fire, electric shock, and injury. This equipment must be installed and serviced by a qualified professional in accordance with all local codes and ordinances.

- **Electrical Safety:** Ensure the power supply matches the pump's requirements. Always connect to a grounded outlet protected by a Ground Fault Circuit Interrupter (GFCI). Do not operate the pump if the power cord is damaged.
- **Water and Chemicals:** Keep chemicals away from the pump and filter. Do not operate the pump dry. Ensure proper water levels in the pool before starting.
- **Pressure Warning:** The filter operates under high pressure. Do not attempt to open the filter or service the multi-port valve while the pump is running. Always turn off the pump and relieve pressure before performing any maintenance.
- **Valve Operation:** **STOP THE PUMP BEFORE SWITCHING THE 6-WAY VALVE POSITION.** Failure to do so can damage the valve and filter system.
- **Children:** Keep children away from the equipment.

3. Setup and Installation

Proper installation is crucial for the performance and longevity of your sand filter pump. Refer to the following steps and diagrams for guidance.

3.1 Unpacking and Component Check

Carefully unpack all components and verify against the packing list. If any parts are missing or damaged, contact customer support immediately.

3.2 Placement

Place the sand filter pump on a firm, level surface, as close to the pool as possible to minimize friction loss from long hose runs. Ensure adequate ventilation and protection from direct sunlight and harsh weather conditions.

3.3 Adding Filter Media (Sand)

1. Remove the multi-port valve from the top of the filter tank.
2. Cover the standpipe opening inside the tank to prevent sand from entering.
3. Carefully pour the recommended amount of filter sand (approximately 200 lbs) into the tank. Ensure the sand is evenly distributed.
4. Remove the standpipe cover.

3.4 Connecting Plumbing

The AQUASTRONG SFPV201ADT is compatible with both above-ground and in-ground pool setups, offering various adapter options.

- **For Above-Ground Pools:** Use the provided 1.25-inch or 1.5-inch clamped hose adapters. Connect the pool's skimmer line to the pump inlet and the return line to the filter outlet.
- **For In-Ground Pools:** Utilize the 1-1/2" PVC coupling kits or 1-1/2" to 2" pipe adapters for rigid PVC pipe connections.

Ensure all connections are tight to prevent leaks. Use thread sealant where appropriate.



Figure 3.4.1: Visual guide for the 4-step installation process.



Figure 3.4.2: Connection options for various pool types.

3.5 Electrical Connection

Connect the pump to a properly grounded electrical outlet protected by a GFCI. Do not use extension cords.

3.6 Installation Video Guide

For a visual walkthrough of the installation process, please refer to the official installation video:

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Video 3.6.1: AQUASTRONG Sand Filter Pump Installation Quick Guide. This video provides step-by-step instructions for setting up your sand filter pump.

4. Operating Instructions

Understanding the 6-way valve and dual-speed timer is key to efficient pool maintenance.

4.1 6-Way Multi-Port Valve Functions

The multi-port valve allows you to control the water flow through the filter system.**Always turn off the pump before changing the valve position.**

- **FILTER:** Standard filtering operation. Water flows through the sand, removing debris, and returns to the pool.

- **BACKWASH:** Reverses water flow through the filter to clean the sand bed. Dirty water is discharged to waste.
- **RINSE:** Used after backwashing to flush out any remaining dirty water from the filter and settle the sand bed before returning to FILTER mode. Water is discharged to waste.
- **WASTE:** Bypasses the filter, sending water directly from the pool to the waste line. Useful for vacuuming heavy debris or lowering pool water level.
- **RECIRCULATE:** Bypasses the filter, circulating water directly from the pump back to the pool. Useful for mixing chemicals without filtering.
- **CLOSED:** Shuts off all flow to the filter and pump. Use this setting only when performing maintenance on the pump or filter.



Figure 4.1.1: Explanation of the 6-way valve settings.

4.2 Dual-Speed Pump and Timer

The pump features two speeds for optimized performance and energy efficiency:

- **High Speed (5186 GPH):** For intensive cleaning, backwashing, or when rapid water circulation is needed.
- **Low Speed (2578 GPH):** For daily circulation and maintaining water clarity, offering significant energy savings.

The built-in timer allows you to program specific run times for each speed, automating your filtration schedule. Consult the timer's specific instructions for setting daily cycles.



Figure 4.2.1: Setting the dual-speed automatic timer.

4.3 Product Overview Video

Watch this video for an overview of the AQUASTRONG Sand Filter Pump's features and operation:

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Video 4.3.1: AQUASTRONG 20in Sand Filter Pump for Above Ground Pool with Dual-Speed Timer. This video highlights the key features and benefits of the pump.

5. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your sand filter pump.

5.1 Backwashing and Rinsing

Backwash the filter when the pressure gauge reads 8-10 PSI above its clean operating pressure, or when water clarity diminishes. Follow these steps:

1. Turn off the pump.
2. Set the 6-way valve to 'BACKWASH'.
3. Turn on the pump and run until the water in the sight glass (if available) runs clear (typically 2-3 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.
7. Turn off the pump.
8. Set the 6-way valve back to 'FILTER'.
9. Turn on the pump to resume normal filtration.

5.2 Sand Replacement

Filter sand typically lasts 3-5 years, depending on usage and water quality. Replace the sand when backwashing no longer restores adequate filtration or pressure. Refer to section 3.3 for adding new sand.

5.3 Winterization

Before freezing temperatures, drain all water from the pump and filter. Disconnect hoses and store the pump and filter in a dry, protected area. Remove the pressure gauge and multi-port valve for separate storage if recommended by the manufacturer.

5.4 Durable Construction

The AQUASTRONG sand filter pump is engineered with a thick-walled, UV-resistant, and anti-corrosion design for exceptional longevity and reduced maintenance needs.



Figure 5.4.1: Durability features of the AQUASTRONG sand filter pump.

6. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped GFCI; motor overload.	Check power connection; reset GFCI; allow motor to cool and reset.
Low water flow	Clogged skimmer/pump basket; dirty filter sand; air leak in suction line; low pool water level.	Clean baskets; backwash/rinse filter; check all connections for leaks; ensure adequate pool water level.
Cloudy pool water	Insufficient filtration time; dirty filter sand; improper chemical balance.	Increase filtration time; backwash/rinse filter; test and adjust pool chemicals.
Water leaking from pump/filter	Loose connections; damaged O-rings/gaskets; cracked housing.	Tighten connections; inspect and replace O-rings/gaskets; contact support for cracked housing.

7. Specifications

Key technical specifications for the AQUASTRONG SFPV201ADT Sand Filter Pump:

- **Model Number:** SFPV201ADT
- **Horsepower:** 2 HP
- **Flow Rate (High Speed):** 5186 GPH
- **Flow Rate (Low Speed):** 2578 GPH
- **Maximum Pool Capacity:** Up to 21,000 Gallons
- **Filter Tank Size:** 20 inches
- **Sand Capacity:** 200 lbs
- **Valve Type:** 6-Way Multi-Port Valve
- **Power Source:** AC (115V/60Hz)
- **Materials:** Polypropylene, Polyvinyl chloride
- **Features:** Built-in Timer, Dual-Speed Operation, UV-Resistant, Anti-Corrosion Design



Figure 7.1.1: Product dimensions.

Figure 7.1.2: Additional product specifications.

8. Warranty and Support

The AQUASTRONG SFPV201ADT 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 your investment.

For warranty claims, technical assistance, or any questions regarding your product, please contact AQUASTRONG customer support. Have your model number (SFPV201ADT) and proof of purchase ready when contacting support.

Customer Support: Refer to your purchase documentation or the AQUASTRONG official website for the most current contact information.