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> AQUASTRONG Sand Filter Pump for Above Ground Pool with Timer, 1/2 HP Pool Pump Max 2500 GPH for Pools up to 9000GAL, 12in Pool Sand Filter with 6-Way Valve, Improved Circulation for Crystal-Clear Pool

AQUASTRONG SFPV120T

AQUASTRONG 1/2 HP Sand Filter Pump Instruction Manual

Model: SFPV120T

Brand: AQUASTRONG

1. INTRODUCTION

Thank you for choosing the AQUASTRONG Sand Filter Pump. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new pool filter system. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage to the unit or injury.



Image: The AQUASTRONG Sand Filter Pump system, showing the filter tank, multi-port valve, and pump unit.

2. IMPORTANT SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and injury to persons, including the following:

- **Electrical Safety:** Always disconnect power to the pump before servicing. Ensure the pump is connected to a grounded outlet protected by a Ground Fault Circuit Interrupter (GFCI). Do not operate if the power cord is damaged.
- **Water Safety:** Never operate the pump dry. Ensure the pump is filled with water before starting. Keep children and pets away from the pool area and pump during operation.
- **Pressure Safety:** Do not exceed the maximum operating pressure indicated on the filter. Always relieve pressure before opening the filter or multi-port valve.

- **Chemicals:** Handle pool chemicals with care and store them safely away from the pump and filter.
- **Installation:** Install the pump on a solid, level surface, away from direct sunlight and excessive moisture.

3. PRODUCT COMPONENTS

Your AQUASTRONG Sand Filter Pump system includes the following main components:

- Filter Tank (12-inch diameter)
- 1/2 HP Pool Pump
- 6-Way Multi-Port Valve
- Pressure Gauge
- Built-in Timer
- Hose Adapters (1.25" and 1.5")
- Base Platform



Image: The AQUASTRONG 12-inch Sand Filter Pump, highlighting its compact design and integrated timer.

4. SETUP AND INSTALLATION

Follow these steps for proper setup of your sand filter pump:

1. **Positioning:** Place the pump and filter unit on a firm, level surface near your pool. Ensure it is at least 10 feet from the pool edge and protected from direct weather exposure.
2. **Secure the Pump:** Secure the pump unit onto the base platform.
3. **Add Filter Media:** Remove the multi-port valve from the top of the filter tank. Carefully add 50 lbs of filter sand (or 1.5 lbs of filter balls) into the tank. Ensure the standpipe is centered during this process.
4. **Install Multi-Port Valve:** Place the multi-port valve onto the filter tank, ensuring it is securely seated and the O-ring is properly in place. Tighten the clamp or flange.
5. **Connect Hoses:** Connect the pool hoses to the appropriate ports on the multi-port valve and pump. Use the provided 1.25" or 1.5" adapters as needed for your pool's connections. Ensure all connections are tight to prevent leaks.
6. **Fill with Water:** Before starting, ensure the pump and filter are completely filled with water from the pool.
7. **Electrical Connection:** Plug the pump into a grounded GFCI-protected electrical outlet.



Image: Visual guide showing the four main steps for installing the sand filter pump: securing the pump, adding filter media, installing the valve, and setting the timer.

Fits All Above-Ground Pools

1.5" Adapter
Conversion Kit

1.25" & 1.5" Hose
Adapter

*Suitable for Intex & Bestway Pools

Image: Detail of the hose connection points, illustrating the use of 1.25-inch and 1.5-inch adapters for compatibility with various above-ground pools.

5. OPERATION

Your sand filter pump features a 6-way multi-port valve and a built-in timer for easy operation.

5.1 Multi-Port Valve Functions

The 6-way valve allows for different operational modes:

- **FILTER:** Normal filtering mode. Water passes through the sand media, cleaning the pool.
- **BACKWASH:** Reverses water flow to clean the sand filter. Water is discharged through the waste port.
- **RINSE:** Used after backwashing to clear debris from the valve and settle the sand before returning to FILTER mode. Water is discharged through the waste port.
- **WASTE:** Bypasses the filter and pumps water directly out of the pool, useful for vacuuming heavy debris or lowering

pool water level.

- **RECIRCULATE:** Circulates pool water without filtering, useful for mixing chemicals.
- **CLOSED:** Stops all water flow through the filter. Use when performing maintenance or when the pump is off.

Important: Always turn off the pump before changing the multi-port valve position to prevent damage.



Image: Detailed view of the 6-way multi-port valve, showing the different settings for filter operation.

5.2 Setting the Timer

The built-in 24-hour timer allows for automated operation:

1. **Step 1:** Press the 'TIMER' button to set the desired duration for pump operation.
2. **Step 2:** Press the 'ON/OFF' button to enable the set schedule.

The pump will automatically start at the same time daily based on your setting.

Built-in Automatic Timer



AQUASTROM®

Image: A person demonstrating how to set the built-in automatic timer on the pump unit.

5.3 Filtering Plan

The system draws unfiltered water from the pool, passes it through the filter for cleaning, and returns clean water to the pool. Waste water can be directed out via the waste port.



Image: A visual representation of the filtering process, illustrating the path of unfiltered water, clean water, and waste water through the system.

5.4 Official Product Video

Video: An official product video from AQUASTRONG demonstrating the 12-inch Sand Filter Pump for Above Ground Pools.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your filter pump.

6.1 Detachable Basket Cleaning

The pump features a detachable basket designed to capture larger debris like leaves and hair before they reach the filter. Regularly check and clean this basket to maintain efficient water flow.



Image: A user removing the detachable basket from the pump, showing collected debris such as leaves and hair.

6.2 Backwashing and Rinsing

Backwash and rinse your filter regularly, especially when the pressure gauge reading increases by 5-10 PSI above its clean operating pressure, or when water flow decreases significantly. Refer to the 'Operation' section for valve settings.

6.3 Sand Replacement

Filter sand typically needs to be replaced every 3-5 years, depending on usage and water quality. Refer to the 'Setup' section for instructions on adding new sand.

6.4 Winterization

Before freezing temperatures, drain all water from the pump, filter, and hoses. Store the unit in a dry, protected area to prevent freeze damage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Low Water Flow	Clogged skimmer/pump basket; dirty filter sand; air in system; low water level in pool.	Clean baskets; backwash/rinse filter; check for air leaks; add water to pool.
Cloudy Pool Water	Insufficient filtering time; dirty filter sand; improper chemical balance.	Increase filtering time; backwash/rinse filter; test and adjust pool chemicals.
Water Leaks	Loose connections; damaged O-rings/gaskets; cracked housing.	Tighten connections; inspect and replace O-rings/gaskets; contact customer support for cracked parts.
Pump Not Starting	No power; tripped GFCI; motor issue.	Check power supply; reset GFCI; contact qualified electrician or customer support.

7.1 Pressure Gauge

The integrated pressure gauge provides a convenient way to monitor the filter's performance. A rising pressure indicates that the filter is becoming dirty and requires backwashing.



Image: A close-up view of the pressure gauge, which helps monitor the filter's operational status and indicates when backwashing is needed.

8. SPECIFICATIONS

Key technical specifications for the AQUASTRONG Sand Filter Pump (Model SFPV120T):

- **Model Number:** SFPV120T
- **Pump Horsepower:** 1/2 HP
- **Pump Flow Rate:** Max 2500 GPH (Gallons Per Hour)
- **System Flow Rate:** 2000 GPH
- **Recommended Pool Capacity:** Up to 9000 Gallons
- **Filter Tank Diameter:** 12 inches
- **Sand Capacity:** 50 lbs
- **Filter Ball Capacity:** 1.5 lbs
- **Valve Type:** 6-Way Multi-Port Valve
- **Product Dimensions:** 22 x 16 x 15 inches
- **Item Weight:** 28.7 pounds

6 Valve Functions



Image: Infographic detailing the pump's performance metrics, including pump flow rate, system flow rate, and the ideal pool size it can support.

9. WARRANTY INFORMATION

For detailed warranty information regarding your AQUASTRONG Sand Filter Pump, please refer to the warranty card included with your product packaging or contact the retailer/manufacturer directly. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your AQUASTRONG Sand Filter Pump, please contact the customer support team of your retailer or the manufacturer. Have your model number (SFPV120T) and purchase date ready when contacting support.

