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› AQUASTRONG 18in Sand Filter Pump (Model SFPV180T) User Manual

AQUASTRONG SFPV180T

AQUASTRONG 18in Sand Filter Pump (Model SFPV180T) User Manual

For Above Ground and In-Ground Pools with Timer

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your AQUASTRONG 18in Sand Filter Pump, Model SFPV180T. Please read all instructions carefully before use to ensure proper function and longevity of the product.



Image 1.1: The AQUASTRONG 18in Sand Filter Pump, featuring its main components including the filter tank, multi-port valve, and pump motor.

2. SAFETY INFORMATION

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

- Read and follow all instructions.
- Disconnect power before servicing.
- Ensure the pump is installed on a solid, level surface.
- Do not operate the pump if the power cord or plug is damaged.
- Keep children and unauthorized persons away from the equipment.
- Always stop the pump before changing the position of the multi-port valve.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged:

- Sand Filter Tank (18in)
- Pump Motor (1 HP)
- 6-Way Multi-Port Valve
- Pressure Gauge
- Base Plate
- Connecting Hoses and Clamps
- Adapter Set (1.5-inch and 1.25-inch clamped hose adapters, 1.5-inch adapter conversion kit, 1-1/2" PVC coupling kits, 1-1/2" to 2" pipe adapters)
- User Manual

4. SETUP AND INSTALLATION

Proper installation is crucial for the efficient operation of your sand filter pump. Refer to the detailed installation guide video for visual assistance.

4.1 Site Selection

Place the sand filter pump on a firm, level surface, as close to the pool as possible. Ensure adequate drainage and protection from direct weather exposure.

4.2 Sand Loading

Before adding filter sand, ensure the standpipe is centered inside the tank. Fill the tank approximately halfway with water to cushion the sand as it is added. Carefully pour 150 lbs of #20 silica sand (0.45-0.55mm) into the tank. Ensure the sand level is below the top of the standpipe.

4.3 Multi-Port Valve Installation

Carefully place the 6-way multi-port valve onto the top of the filter tank, ensuring the standpipe aligns with the opening in the valve. Secure the valve to the tank using the provided clamp and bolts.

4.4 Connecting Hoses and Adapters

The pump is compatible with various pool types and hose sizes. Use the appropriate adapters from the included set for your specific pool setup.

- For above-ground pools, use the 1-1/4" or 1-1/2" clamped hose adapters.
- For in-ground pools, use the 1-1/2" or 2" PVC pipe adapters.

Fits All Above-Ground Pools

1-1/4"、
1-1/2" Hose

1-1/2" Hose
(with thread)

*Suitable for Intex & Bestway Pools

Image 4.1: Example of hose connections for above-ground pools, showing compatibility with 1-1/4" and 1-1/2" hoses, including threaded options for Intex and Bestway pools.



Image 4.2: Example of PVC pipe connections for in-ground pools, illustrating compatibility with 1-1/2" and 2" PVC pipes.

4.5 Installation Video Guide

Watch this official installation video for a step-by-step guide:

Your browser does not support the video tag.

Video 4.1: AQUASTRONG Sand Filter Pump Installation Quick Guide. This video demonstrates the assembly and connection process for the sand filter pump.

5. OPERATING INSTRUCTIONS

5.1 6-Way Multi-Port Valve Functions

The 6-way valve allows for various operational modes. **IMPORTANT: Always stop the pump before switching the valve position to prevent damage.**

6 Valve Functions



STOP PUMP BEFORE SWITCHING VALVE POSITION

Image 5.1: The 6-way multi-port valve, indicating its various settings for pool operation and maintenance.

- **FILTER:** Normal filtering mode. Water is pumped through the sand filter and returned 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 only when the pump is off and for servicing.
- **BACKWASH:** Reverses water flow through the filter to clean the sand bed. Water is discharged through the waste port.
- **RECIRCULATE:** Bypasses the filter, circulating water directly back to the pool. Used for chemical distribution without filtering.
- **RINSE:** Used after backwashing to flush out any remaining debris from the filter lines before returning to FILTER mode.

5.2 Automatic Timer Operation

The integrated timer allows for automated filtration cycles. It features 9 settings, ranging from 2 to 24 hours.



Image 5.2: Close-up of the pump's control panel, showing the timer settings dial for automated operation.

1. Ensure the pump is connected to a power source.
2. Rotate the timer dial to select the desired running hours (e.g., 2, 4, 6, 8, 10, 12, 14, 16, 24 hours).
3. The pump will automatically start and stop according to the selected schedule.

6. MAINTENANCE

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

- **Backwash Regularly:** When the pressure gauge reads 8-10 PSI above its clean operating pressure, it's time to backwash the filter.
- **Rinse After Backwashing:** Always perform a RINSE cycle for 30-60 seconds after backwashing to settle the sand and prevent debris from returning to the pool.
- **Inspect Connections:** Periodically check all hose and pipe connections for leaks and tighten as necessary.
- **Winterization:** In cold climates, drain all water from the pump and filter to prevent freezing damage. Store the pump in a dry, protected area.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump not starting	No power; tripped breaker; motor issue	Check power supply, reset breaker, contact support if motor is faulty.
Low water flow	Clogged skimmer/pump basket; dirty filter sand; air leak	Clean baskets, backwash filter, check all connections for air leaks.
Water not clearing	Insufficient filtration time; dirty filter sand; chemical imbalance	Increase filtration time, backwash/rinse filter, test and adjust pool chemistry.
Leaks at connections	Loose clamps/fittings; worn O-rings	Tighten clamps/fittings, inspect and replace O-rings if necessary.

8. SPECIFICATIONS

Key technical specifications for the AQUASTRONG 18in Sand Filter Pump (Model SFPV180T):

- **Model Number:** SFPV180T
- **Filter Diameter:** 18 inches
- **Horsepower:** 1 HP
- **Flow Rate (Pump):** 6100 GPH
- **Flow Rate (System):** 4000 GPH
- **Maximum Pool Capacity:** Up to 20,000 gallons
- **Sand Capacity:** 150 lbs
- **Valve Type:** 6-Way Multi-Port Valve
- **Timer:** Auto 24-Hour Timer with 9 settings (2-24 hours)
- **Power Source:** AC (115V/60Hz)
- **Material:** Thick-walled, UV-resistant, anti-corrosion design



Image 8.1: Visual representation of the pump's performance capabilities, including maximum pool size, recommended cycle time, horsepower, and flow rate.

Product Size



Image 8.2: Product dimensions, showing the overall height, width, and depth of the assembled sand filter pump system.

9. WARRANTY AND SUPPORT

The AQUASTRONG 18in Sand Filter Pump comes with a **Two-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use and service.

Built for the Long Run



UV Protected



Corrosion Resistant

Image 9.1: The sand filter pump highlighting its durable construction, including UV protection and corrosion resistance, backed by a two-year warranty.

For warranty claims, technical assistance, or replacement parts, please contact AQUASTRONG customer support. Provide your model number (SFPV180T) and proof of purchase when contacting support.

For additional product information and support, you may visit the [AQUASTRONG Store on Amazon](#).

10. PRODUCT OVERVIEW VIDEO

For a general overview of the AQUASTRONG 18in Sand Filter Pump, watch this video:

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Video 10.1: AQUASTRONG 18in Sand Filter Pump for Above Ground Pool 180T. This video provides a brief overview of the product's features and benefits.

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.

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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