

Pentair 25022-0201S

Pentair Sta-Rite 25022-0201S Outer Replacement Module Instruction Manual

For S7M120 SM Series Pool and Spa Cartridge Filters

INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Pentair Sta-Rite 25022-0201S Outer Replacement Module. This module is specifically designed for use with Pentair Sta-Rite System 3 SM-Series 21-inch pool and spa cartridge filter model S7M120. Adhering to these guidelines will ensure optimal performance and longevity of your filter system.

SAFETY INFORMATION

Always prioritize safety when working with pool equipment. Failure to follow safety instructions can result in serious injury or property damage.

- **Disconnect Power:** Always turn off the pump and disconnect power to the filter system at the circuit breaker before performing any service or maintenance.
- **Release Pressure:** Before opening the filter housing, ensure all air pressure is released from the system. Refer to your main filter system manual for specific instructions on pressure release.
- **Read All Instructions:** Read this entire manual and the main filter system manual before installation or service.
- **Proper Tools:** Use appropriate tools for installation and removal to prevent damage to the filter or housing.
- **Chemical Handling:** If using cleaning chemicals, follow manufacturer instructions and wear appropriate personal protective equipment.

SETUP AND INSTALLATION

This section details the steps for replacing the outer filter module.

1. Prepare the Filter System:

- Turn off the pool pump and disconnect power at the circuit breaker.
- Open the air relief valve on top of the filter to release any trapped air and pressure.
- Drain the filter tank by opening the drain plug at the bottom.

2. Open the Filter Housing:

- Remove the clamp or locking mechanism securing the filter tank halves.
- Carefully lift the top half of the filter tank to expose the filter cartridges.

3. Remove Old Outer Module:

- Locate the large outer cartridge. Gently lift and remove it from the filter manifold.
- Inspect the manifold and internal components for any debris or damage. Clean as necessary.

4. Install New Outer Module:

- Carefully lower the new Sta-Rite 25022-0201S Outer Replacement Module onto the filter manifold. Ensure it seats properly and is aligned with the inner cartridge (if applicable).
- Verify that the module is securely in place and level.

5. Close the Filter Housing:

- Replace the top half of the filter tank, ensuring the O-ring is clean and properly seated. Lubricate the O-ring with a silicone-based lubricant if needed.
- Secure the filter tank halves with the clamp or locking mechanism. Tighten according to the main filter system manual.



Figure 1: The Sta-Rite 25022-0201S Outer Replacement Module, a cylindrical filter cartridge with pleated media, designed for pool and spa filtration systems. The top and bottom caps are black, and the pleated filter material is white, secured by two white bands.

OPERATING INSTRUCTIONS

After installation, follow these steps to resume filter operation:

1. **Fill the Filter Tank:** Close the filter drain plug. Open the air relief valve on top of the filter.
2. **Start the Pump:** Restore power to the pump at the circuit breaker and turn on the pump.
3. **Purge Air:** Allow the filter tank to fill with water. Once a steady stream of water (not air) emerges from the air relief valve, close the valve.
4. **Check for Leaks:** Inspect all connections and the filter tank for any signs of water leaks. Address any leaks immediately.
5. **Monitor Pressure:** Note the initial operating pressure on the filter gauge. This is your clean filter pressure. A rise of 8-10 PSI above this reading typically indicates that the filter needs cleaning.

MAINTENANCE

Regular maintenance is crucial for efficient filtration and extending the life of your filter module.

Cleaning the Filter Module

The filter module should be cleaned when the pressure gauge reads 8-10 PSI above the clean operating pressure, or if water flow to the pool/spa decreases significantly.

1. **Shut Down System:** Follow steps 1 and 2 from the 'Setup and Installation' section to safely shut down and open the filter housing.
2. **Remove Module:** Carefully remove the outer filter module from the filter manifold.
3. **Rinse:** Use a garden hose with a spray nozzle to thoroughly rinse the pleated material. Spray from top to bottom, working between the pleats to dislodge debris. Do not use a high-pressure washer, as this can damage the filter media.
4. **Chemical Cleaning (Optional):** For stubborn dirt, oils, or calcium deposits, soak the module in a specialized filter cleaning solution according to the cleaner manufacturer's instructions. Always rinse thoroughly after chemical cleaning.
5. **Inspect:** While cleaning, inspect the filter media for tears, holes, or excessive wear. Check the end caps for cracks or damage.
6. **Reinstall:** Reinstall the cleaned module by following steps 4 and 5 from the 'Setup and Installation' section, then proceed with the 'Operating Instructions'.

Replacement Schedule

The lifespan of a filter module varies depending on usage, water chemistry, and maintenance. Typically, filter modules should be replaced every 1-3 years, or sooner if visible damage or a persistent decrease in filtration efficiency is observed even after cleaning.

TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Reduced Water Flow	Clogged filter module; Air in system; Pump issue	Clean or replace filter module; Purge air from system; Check pump for proper operation.
Cloudy Pool/Spa Water	Dirty or damaged filter module; Improper water chemistry	Clean or replace filter module; Test and adjust water chemistry (pH, alkalinity, sanitizer).
Water Leaks from Filter Housing	Improperly seated O-ring; Damaged O-ring; Loose clamp	Inspect and clean O-ring, lubricate with silicone; Replace O-ring if damaged; Tighten clamp securely.
High Filter Pressure	Clogged filter module	Clean or replace filter module.

SPECIFICATIONS

- **Model Number:** 25022-0201S
- **Compatibility:** Pentair Sta-Rite System 3 SM-Series 21-inch pool and spa cartridge filter model S7M120
- **Filtration Area:** 200 square feet
- **Dimensions (Approximate):** 19 inches (Length) x 23 inches (Height) x 19 inches (Width)
- **Item Weight (Approximate):** 25 pounds

WARRANTY AND SUPPORT

This Pentair product is covered by a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your original filter system or visit the official Pentair website. For technical support, replacement parts, or further assistance, please contact Pentair customer service or your authorized Pentair dealer.

Pentair Customer Service: Refer to your original product packaging or the Pentair website for current contact information.