Pentair 27002-0150S

Pentair 27002-0150S Filter Module Replacement Manual

For Sta-Rite System:2 Modular Media Pool & Spa D.E. Filters

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1. Introduction

This manual provides comprehensive instructions for the proper installation, operation, and maintenance of the Pentair 27002-0150S Filter Module. This module is a genuine replacement part designed specifically for Sta-Rite System:2 Modular Media Pool and Spa D.E. Filters, model PLM150. Adhering to these instructions will ensure optimal performance and longevity of your filter system.

2. Safety Information

Always observe basic safety precautions when installing and operating this product. Failure to do so could result in serious injury or property damage.

- **Disconnect Power:** Always turn off the power to the pump and filter system at the circuit breaker before performing any service or maintenance.
- **Relieve Pressure:** Before opening the filter, ensure all pressure is relieved from the system. Refer to your main filter system manual for specific instructions on pressure relief.
- **Read All Instructions:** Read and understand all instructions in this manual and the main filter system manual before installation or operation.
- **Qualified Personnel:** Installation and service should be performed by a qualified pool service professional where required by local codes.
- **Use Genuine Parts:** Use only genuine Pentair replacement parts to ensure compatibility and safety.

3. Product Overview

The Pentair 27002-0150S is a replacement filter module for the Sta-Rite System:2 Modular Media D.E. Filter, specifically designed for the PLM150 model. This module is crucial for maintaining clean and clear pool or spa water by effectively filtering out debris and microscopic particles.



Figure 1: Front view of the Pentair 27002-0150S Filter Module, showing the pleated filter media and top/bottom plates.



Figure 2: Angled view of the Pentair 27002-0150S Filter Module, highlighting the structural components.

4. Installation Instructions (Replacement)

Follow these steps to replace the filter module in your Sta-Rite System:2 Modular Media D.E. Filter (PLM150).

1. **Prepare the System:**
    - Turn off the pump and filter system at the main circuit breaker.
    - Open the air relief valve on top of the filter tank to release any trapped air.
    - Open the drain plug at the bottom of the filter tank to drain the water.
2. **Open the Filter Tank:**
    - Remove the clamp or locking mechanism that secures the filter tank halves together. Refer to your specific filter model's manual for detailed instructions on opening the tank.
    - Carefully separate the top and bottom halves of the filter tank.
3. **Remove Old Module:**
    - Lift out the old filter module assembly from the bottom tank half.
    - Inspect the internal components for any damage or wear.
4. **Clean the Tank:**
    - Thoroughly clean the inside of both filter tank halves, removing any debris or D.E. residue.
    - Inspect the tank O-ring for cracks or damage. Replace if necessary. Lubricate the O-ring with a silicone-based lubricant.
5. **Install New Module:**
    - Carefully lower the new Pentair 27002-0150S Filter Module into the bottom tank half, ensuring it seats correctly on the standpipe.
6. **Reassemble the Filter:**
    - Place the top tank half onto the bottom tank half, ensuring the O-ring is properly seated.
    - Secure the tank halves with the clamp or locking mechanism, tightening according to your filter system's manual.
    - Close the drain plug.
7. **Start-Up:**
    - Open the air relief valve.
    - Turn on the pump. Allow the filter tank to fill with water, and once a steady stream of water emerges from the air relief valve, close the valve.
    - Check for leaks around the filter tank and plumbing connections.
    - Add the appropriate amount of D.E. powder to the skimmer, as specified by your filter system's manual.

5. Operation

Once installed and the system is running, the Pentair 27002-0150S Filter Module, in conjunction with D.E. powder, will begin filtering your pool or spa water. Monitor the pressure gauge on your filter. A gradual increase in pressure indicates that the filter is collecting debris and requires cleaning.

6. Maintenance

Regular maintenance of your filter module is essential for efficient filtration and extended product life.

- **Backwashing/Cleaning:** When the filter pressure rises 8-10 PSI above its clean starting pressure, it's time to clean the filter. Refer to your main filter system manual for specific backwashing or cleaning procedures for your D.E. filter. This typically involves backwashing to remove accumulated D.E. and debris, followed by recharging with fresh D.E.
- **Deep Cleaning:** Periodically, or if filtration efficiency decreases significantly, the filter module may require a more thorough chemical cleaning to remove oils, scale, and other stubborn contaminants. Use a reputable filter cleaning solution designed for D.E. filters and follow the product's instructions.
- **Inspection:** Annually, or during deep cleaning, inspect the filter module for any tears, cracks, or damage to the pleats or end caps. Replace the module if any significant damage is observed.

7. Troubleshooting

Problem	Possible Cause	Solution
Low Water Flow / High Pressure	Clogged filter module, insufficient D.E. powder, air in system.	Backwash and recharge D.E. Check D.E. levels. Bleed air from system. Inspect module for heavy fouling.
Cloudy Water	Damaged filter module, improper D.E. application, chemical imbalance.	Inspect module for tears. Ensure correct D.E. amount. Test and balance water chemistry.
Water Leaks from Filter Tank	Improperly seated O-ring, damaged O-ring, loose clamp.	Ensure O-ring is clean, lubricated, and correctly seated. Replace damaged O-ring. Tighten tank clamp according to manual.

For issues not listed here, consult your main Sta-Rite System:2 filter manual or contact Pentair customer support.

8. Specifications

Model Number: 27002-0150S

Compatibility: Sta-Rite System:2 Modular Media D.E. Filter (PLM150)

Product Dimensions: Approximately 13.75 x 13.75 x 23.75 inches

Item Weight: Approximately 14 pounds

Manufacturer: Pentair

9. Warranty and Support

Pentair products are manufactured to high-quality standards. For specific warranty information regarding your 27002-0150S Filter Module, please refer to the documentation included with your original Sta-Rite filter system or visit the official Pentair website. For technical support or assistance, please contact Pentair customer service directly.
Pentair Official Website: www.pentair.com

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