Pentair 24900-0002

Pentair 24900-0002 Lateral Assembly Instruction Manual

Model: 24900-0002

Introduction

This manual provides essential information for the installation, function, and maintenance of the Pentair 24900-0002 Lateral Assembly. This component is a crucial replacement part for Pentair Sta-Rite System 3 Sand Filters, specifically designed for models like the S7S50, where 16 units are typically required for proper operation. The lateral assembly plays a vital role in the filtration process by ensuring even water distribution and preventing filter media (sand) from escaping into the pool.



Figure 1: Pentair 24900-0002 Lateral Assembly. This image shows a single, cylindrical, off-white plastic lateral assembly with slotted sides, designed for use in a sand filter. It is approximately 21 inches long.

Setup and Installation

The Pentair 24900-0002 Lateral Assembly is a replacement part. Installation involves replacing existing damaged or worn lateral assemblies within your Pentair Sta-Rite System 3 Sand Filter.

Safety Precautions:

- Always turn off the pool pump and disconnect power before performing any maintenance or installation on the filter system.

- Close all necessary valves to isolate the filter.
- Drain the filter tank completely before opening.
- Wear appropriate personal protective equipment (PPE) if necessary.

Installation Steps:

1. **Prepare the Filter:** Turn off the pump, close valves, and drain the sand filter tank.
2. **Access Laterals:** Carefully remove the top manifold or access port of the sand filter to expose the existing lateral assembly.
3. **Remove Old Laterals:** Unscrew or detach the old lateral assemblies from the central standpipe. Note their orientation and how they connect.
4. **Inspect Standpipe:** Clean the central standpipe and inspect for any damage or debris.
5. **Install New Laterals:** Attach the new Pentair 24900-0002 Lateral Assemblies to the central standpipe. Ensure they are securely fastened and oriented correctly. For the Sta-Rite System 3 S7S50 filter, 16 lateral assemblies are typically required.
6. **Reassemble Filter:** Carefully reassemble the filter tank, ensuring all connections are tight and seals are properly seated.
7. **Refill and Start-up:** Refill the filter tank with water, then slowly turn on the pump and check for leaks. Backwash the filter as per your filter's main instruction manual to settle the sand.

Operating Principles

The lateral assembly does not have operational controls; it is a passive component integral to the sand filter's function. Its primary role is to facilitate the even distribution of water entering the filter bed and to collect filtered water from the bottom of the sand bed, returning it to the pool. The slots in the lateral assemblies are precisely sized to allow water to pass through while retaining the sand media within the filter tank. During backwashing, these laterals also help distribute water evenly to lift and clean the sand bed.

Maintenance

Regular inspection and proper handling of the lateral assemblies are crucial for the longevity and efficiency of your sand filter.

- **Annual Inspection:** It is recommended to inspect the lateral assemblies annually, typically when the filter sand is being replaced or serviced.
- **Check for Cracks/Damage:** Look for any cracks, breaks, or deformities in the plastic. Damaged laterals can lead to sand entering the pool.
- **Clean Laterals:** If accessible, gently rinse any debris or calcification from the slots of the laterals. Avoid using harsh chemicals or abrasive tools that could damage the plastic.
- **Proper Handling:** When servicing the filter, handle the laterals carefully to prevent accidental breakage.
- **Replacement:** Replace any lateral assembly that shows signs of damage or wear to maintain optimal filter performance.

Troubleshooting

Issues related to the lateral assembly often manifest as problems with the filter's performance.

Symptom	Possible Cause	Solution

Symptom	Possible Cause	Solution
Sand in Pool	Damaged or broken lateral assembly, improperly installed laterals, or incorrect sand type/level.	Inspect laterals for damage and replace if necessary. Ensure laterals are securely attached. Verify correct sand type and quantity.
Poor Filtration / Cloudy Water	Clogged or partially blocked laterals, or damaged laterals affecting water distribution.	Backwash filter thoroughly. If problem persists, inspect laterals for blockages or damage and clean/replace as needed.
Excessive Backwash Frequency	Laterals may be partially clogged, leading to reduced flow and quicker pressure buildup.	Perform a thorough backwash. If the issue continues, consider inspecting and cleaning the laterals.

If troubleshooting steps do not resolve the issue, consult a qualified pool technician.

Specifications

Attribute	Detail
Model Number	24900-0002
Compatibility	Pentair Sta-Rite System 3 Sand Filters (e.g., S7S50)
Required Quantity (S7S50)	16 units
Approximate Length	21 inches
Product Dimensions	6 x 6 x 6 inches (packaging/shipping dimensions)
Item Weight	5 pounds (shipping weight)
Manufacturer	Pentair Pool Products

Warranty and Support

For specific warranty information regarding the Pentair 24900-0002 Lateral Assembly, please refer to the official Pentair website or the documentation included with your original Pentair Sta-Rite System 3 Sand Filter. Warranty terms typically cover manufacturing defects.

For technical support, replacement parts, or further assistance, please contact Pentair Customer Service or visit their official website. It is recommended to have your product model number (24900-0002) and filter model information ready when contacting support.

Pentair Official Website: www.pentair.com

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