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Pentair 59023700

Pentair FNS PLUS D.E. Filter Manifold Top with Air Bleed

Model: 59023700

1. Product Overview

This document provides instructions for the Pentair 59023700 Manifold Top with Air Bleed, designed as a direct replacement part for Pentair FNS PLUS Pool and Spa D.E. (Diatomaceous Earth) Filters. This manifold is a critical component of the filter assembly, responsible for directing water flow and ensuring proper D.E. distribution and filtration.



Figure 1.1: Top view of the Pentair 59023700 Manifold, showing the main structure and the integrated air bleed tube.

2. Safety Information

Always observe basic safety precautions when installing or servicing pool equipment. Failure to do so could result in serious injury or property damage.

- Ensure the filter system is completely depressurized and the pump is turned off and disconnected from power before beginning any work.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Handle D.E. powder with care, avoiding inhalation. Refer to D.E. manufacturer's safety data sheet.
- If you are unsure about any step, consult a qualified pool service professional.

3. Setup and Installation

This section outlines the general steps for replacing the manifold top. Specific filter models may have slight variations.

1. **Preparation:** Turn off the pool pump and close all valves leading to and from the filter. Open the air relief valve on top of the filter to release any pressure. Remove the drain plug at the bottom of the filter to drain water.
2. **Disassembly:** Once the filter is depressurized and drained, remove the filter clamp or band that secures the top and bottom halves of the filter tank. Carefully lift the top half of the filter tank off.
3. **Remove Old Manifold:** Lift the entire D.E. grid assembly out of the filter tank. The manifold top is typically secured to the top of the grid assembly. Inspect the old manifold for cracks or damage. Disconnect the air bleed tube if it is separate from the manifold.
4. **Clean Grids:** Thoroughly clean the D.E. filter grids. This is an opportune time to remove all old D.E. and debris. Inspect grids for tears or damage.
5. **Install New Manifold:** Carefully attach the new Pentair 59023700 manifold to the top of the cleaned D.E. grid assembly. Ensure all grids are properly seated into the manifold's openings. The air bleed tube should be securely connected to the manifold.
6. **Reassembly:** Carefully lower the grid assembly with the new manifold back into the filter tank. Ensure it is centered and seated correctly. Replace the top half of the filter tank, ensuring the O-ring is clean and properly seated. Secure the filter clamp or band according to the filter manufacturer's instructions.
7. **Start-up:** Close the filter drain plug. Open the air relief valve. Slowly open the inlet valve to the filter, allowing water to fill the tank. Once a steady stream of water emerges from the air relief valve, close the valve. Open the outlet valve. Turn on the pool pump and check for leaks.



Figure 3.1: Bottom view of the manifold, illustrating the points where the D.E. filter grids attach.

4. Operating Principles

The manifold top is integral to the proper functioning of a D.E. filter. It serves several key roles:

- **Water Distribution:** It collects filtered water from the D.E. grids and directs it back to the pool system.
- **Air Bleed:** The integrated air bleed tube allows trapped air to escape from the filter tank during start-up, preventing air pockets that can impede filtration efficiency.
- **Grid Support:** It provides the structural support for the D.E. filter grids, ensuring they remain properly aligned and sealed for effective filtration.

While the manifold itself does not require direct operation, its integrity is crucial for the overall performance of the D.E. filter system.

5. Maintenance

Regular maintenance of your D.E. filter system, including the manifold, is essential for optimal performance and longevity.

- **Periodic Inspection:** During routine filter cleaning (backwashing and D.E. recharge), visually inspect the manifold for any signs of cracks, warping, or damage. Pay close attention to the areas where the grids attach and around the air bleed tube connection.
- **Cleaning:** When disassembling the filter for deep cleaning, rinse the manifold thoroughly with a garden hose to remove any accumulated D.E. or debris. Avoid using harsh chemicals that could degrade the plastic material.
- **O-Ring Care:** Ensure the O-ring between the filter halves is clean and lubricated with a silicone-based lubricant to maintain a proper seal. A damaged O-ring can lead to leaks, which may be mistaken for manifold issues.

6. Troubleshooting

If you experience issues with your D.E. filter, the manifold may be a contributing factor. Here are common problems and potential solutions:

Problem	Possible Cause	Solution
D.E. powder returning to pool	Cracked manifold, torn filter grids, or improperly seated grids.	Inspect manifold for cracks (especially on the underside). Replace if cracked. Inspect and replace torn grids. Ensure grids are properly seated in the manifold.
Poor water clarity / Ineffective filtration	Damaged manifold, clogged grids, insufficient D.E. charge, or air in the system.	Check manifold for damage. Clean grids thoroughly. Ensure correct D.E. dosage. Verify air bleed tube is clear and functioning.
Air bubbles returning to pool	Air leak in suction line, pump lid, or filter air bleed issue.	Check all connections on the suction side of the pump. Ensure pump lid O-ring is sealed. Verify the manifold's air bleed tube is not clogged or damaged.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified pool service technician.



Figure 6.1: Side view of the manifold, showing its profile and dimensions.

7. Specifications

Attribute	Value
Model Number	59023700
Compatibility	Pentair FNS PLUS Pool and Spa D.E. Filters
Dimensions (L x W x H)	16 x 15 x 7.75 inches
Item Weight	1.6 pounds
Material	Durable Plastic
Country of Origin	United States

8. Warranty and Support

For specific warranty information regarding the Pentair 59023700 Manifold Top, please refer to the official Pentair website or the documentation provided with your original filter system. Pentair typically offers a limited warranty on its replacement parts against defects in materials and workmanship.

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 (59023700) and filter model information available when seeking support.



Figure 8.1: The Pentair 59023700 Manifold as typically packaged.

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