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Pentair 190092

Pentair 190092 Internal Air Bleed Assembly User Manual

For FNS Plus Pool and Spa Vertical Grid D.E. Filters

Introduction

This manual provides instructions for the installation, operation, maintenance, and troubleshooting of the Pentair 190092 Internal Air Bleed Assembly. This component is specifically designed for use with Pentair FNS Plus pool and spa D.E. vertical grid filters. Proper installation and maintenance ensure optimal filter performance and longevity.

Product Overview

The Pentair 190092 Internal Air Bleed Assembly is a critical replacement part for your D.E. filter system. Its primary function is to prevent diatomaceous earth (D.E.) and fine particles from re-entering the pool water during filtration cycles. It ensures that only filtered water is returned to the pool, maintaining water clarity and system efficiency.



Figure 1: Pentair 190092 Internal Air Bleed Assembly, front view. This image shows the main body of the assembly with the mesh screen visible at one end.



Figure 2: Pentair 190092 Internal Air Bleed Assembly, rear view. This image displays the opposite end of the assembly, showing the connection points for installation within the filter.

Installation

Safety Warning:
Always turn off the pool pump and relieve all pressure from the filter system before performing any maintenance or installation. Failure to do so can result in serious injury or damage to equipment.

1. **Prepare the Filter:** Turn off the pool pump at the circuit breaker. Open the air relief valve on top of the filter to release any trapped air and pressure.
2. **Access the Filter Internals:** Follow your specific filter model's instructions to open the filter tank and access the

internal grid assembly.

3. **Remove Old Assembly:** Locate the existing internal air bleed assembly. Gently pull out the old assembly, moving it back and forth if necessary to loosen it from its seating. Inspect the area for any debris or damage.
4. **Install New Assembly:** Take the new Pentair 190092 Internal Air Bleed Assembly. Align the notches on the new assembly with the corresponding slots in the filter manifold. Simply slide the new assembly into place until it is fully seated. It may require a little firm pressure to ensure a secure fit.
5. **Reassemble and Test:** Close the filter tank according to the manufacturer's instructions. Ensure all clamps and seals are properly secured. Close the air relief valve. Turn on the pool pump and check for leaks.

Operation

Once installed, the internal air bleed assembly operates automatically as part of your D.E. filter system. During the filtration process, water flows through the D.E. grids. The air bleed assembly ensures that any air trapped within the filter is properly vented, and more importantly, it prevents D.E. powder from bypassing the filter grids and returning to the pool. This maintains the integrity of the filtration process and keeps your pool water clear.

Maintenance

The internal air bleed assembly is a durable component, but it is subject to wear and tear from pool chemicals and continuous operation. Regular inspection is recommended:

- **Visual Inspection:** During routine filter cleaning or disassembly, visually inspect the air bleed assembly for any signs of damage, cracks, or deterioration.
- **Screen Integrity:** Pay close attention to the mesh screen at the end of the assembly. Ensure it is intact and free from tears, holes, or excessive buildup. A damaged screen can allow D.E. to return to the pool.
- **Chemical Exposure:** Prolonged exposure to harsh pool chemicals, particularly high chlorine levels, can degrade the material over time. If the assembly appears brittle or discolored, consider replacement.
- **Replacement:** If any damage is observed, or if D.E. is consistently returning to the pool despite proper filter operation, replace the internal air bleed assembly with a new Pentair 190092 part.

Troubleshooting

The most common issue related to a malfunctioning internal air bleed assembly is the presence of D.E. powder returning to the pool.

Problem	Possible Cause	Solution
D.E. powder returning to the pool	Damaged or missing screen on the internal air bleed assembly.	Inspect the internal air bleed assembly. If the screen is damaged, torn, or missing, replace the Pentair 190092 Internal Air Bleed Assembly. Ensure the new assembly is properly seated.
Reduced filter efficiency	Air trapped in the filter due to a clogged or faulty air bleed assembly.	Clean or replace the internal air bleed assembly. Ensure the air relief valve on the filter is functioning correctly.

Specifications

Product Model Number:	190092

Compatibility:	Pentair FNS Plus Pool and Spa Vertical Grid D.E. Filters
Product Dimensions:	9.5 x 1 x 2.5 inches (Length x Width x Height)
Item Weight:	0.48 ounces
Manufacturer:	Pentair

Warranty and Support

For warranty information, technical support, or to purchase genuine replacement parts, please contact Pentair directly or visit their official website. Always refer to your original filter system manual for specific instructions and safety guidelines.
Pentair Official Website: Visit the Pentair Store on Amazon

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