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Pentek #10 3G-ST BL/CL 3/4IB W/P

Pentair Pentek 3G Standard Filter Housing User Manual

Model: #10 3G-ST BL/CL 3/4IB W/P | Brand: Pentek

Product Overview

The Pentair Pentek 3G Standard Series Filter Housing is designed for residential, commercial, and industrial water filtration applications. It features a clear sump for easy visual inspection of the filter cartridge and water flow, along with a pressure relief button for simplified cartridge changes. This housing is compatible with standard 10-inch double open end (DOE) and O-ring sealing cartridges.



Figure 1: Front view of the Pentair Pentek 3G Standard Filter Housing.



Figure 2: Top view of the filter housing showing the integral bracket cap and pressure relief button.

Safety Information

Always turn off the main water supply before performing any installation or maintenance on the filter housing. Depressurize the system before opening the housing. Wear appropriate personal protective equipment, such as gloves and eye protection, when handling the housing or chemicals like bleach.

Setup and Installation

Pre-Installation Checklist

- Ensure you have all necessary tools: filter wrench, silicone grease (food-grade), bleach, scrub brush, sponge/cloth, rubber gloves, and a dish towel or tray.
- Verify the filter housing is compatible with your plumbing system (3/4" NPT inlet and outlet ports).
- Choose a suitable location for installation, ensuring easy access for maintenance and protection from freezing temperatures.

Installation Steps

1. Turn off the main water supply to the installation area.
2. Open a nearby faucet to relieve pressure in the water line.
3. Mount the filter housing securely using the integral bracket. Ensure it is level and stable.
4. Apply thread sealant (Teflon tape or pipe dope) to the male NPT threads of your plumbing connections.
5. Connect the inlet and outlet plumbing to the filter housing. Ensure connections are tight but do not overtighten.
6. Insert a new filter cartridge into the housing.
7. Screw the clear sump onto the cap, hand-tightening first, then using the filter wrench for a snug fit.
8. Slowly turn on the main water supply, checking for leaks.
9. Open a nearby faucet to flush the system for 10 minutes to remove any air or carbon fines from the new filter.

Operating the Filter Housing

Once installed, the Pentair Pentek 3G Standard Filter Housing operates continuously to filter your water. The clear sump allows for visual monitoring of the filter cartridge's condition, helping you determine when a replacement is needed. The pressure relief button on the cap simplifies the depressurization process before maintenance.

Maintenance

Filter Cartridge Replacement

Regular filter cartridge replacement is crucial for maintaining optimal water quality and flow. Replace the filter cartridge when there is a noticeable change in water appearance or taste, or when a substantial reduction in water flow occurs. It is recommended to replace cartridges at least once per year, or more frequently depending on water quality and usage.

Video: Filter Cartridge Replacement - Undercounter Water Filtration. This video demonstrates the process of replacing a filter cartridge in a similar housing system.

1. Turn off the water supply to the filter housing.
2. Place a towel or tray underneath the housing to catch any spills.
3. Press the red pressure relief button (if present) to release trapped air and pressure. Alternatively, open a nearby faucet to relieve pressure.
4. Using the filter wrench, unscrew the clear sump from the cap.
5. Carefully remove the old filter cartridge and discard it.
6. Remove the large O-ring from the housing cap. Wipe it clean and inspect for any signs of damage. If damaged, replace it with a new one.
7. Lubricate the O-ring with clean, food-grade silicone grease (do not use petroleum jelly).
8. Insert the lubricated O-ring back into its groove on the housing cap, ensuring it is seated level.
9. Insert the new filter cartridge into the housing, ensuring any gaskets are properly installed.
10. Screw the clear sump back onto the cap, hand-tightening first, then using the filter wrench for a snug fit. Ensure the cap standpipe is centered in the cartridge.
11. Slowly turn on the water supply to the filter.
12. Press the pressure relief button again (if present) to allow any trapped air to escape.
13. Check for leaks around the housing.
14. Open a nearby faucet and flush the cartridge for 10 minutes. Initial water may appear cloudy due to trapped air, which will clear with use.

Cleaning and Disinfection

It is recommended to clean and disinfect the filter housing during each cartridge replacement.

1. After removing the old cartridge, wash the housing sump with dish soap and warm water using a sponge or cloth. Rinse thoroughly.
2. To disinfect, fill the sump approximately one-third full with water and add one tablespoon of household bleach.
3. Use a scrub brush to thoroughly scrub the inside of the sump with the bleach solution.
4. Rinse the sump thoroughly with warm water to remove all traces of bleach.
5. Ensure the O-ring groove is clean and free of debris before re-inserting the lubricated O-ring.

Troubleshooting

Problem	Possible Cause	Solution
Water Leakage	Improperly seated O-ring; damaged O-ring; loose sump.	Turn off water, depressurize. Re-seat O-ring, lubricate. Replace O-ring if damaged. Tighten sump with wrench.
Reduced Water Flow	Clogged filter cartridge.	Replace filter cartridge.
Cloudy Water After Filter Change	Trapped air in the system; carbon fines from new filter.	Flush system for 10 minutes. This is normal and will clear.
Unpleasant Taste/Odor	Expired or saturated filter cartridge.	Replace filter cartridge.

Specifications

- **Material:** Polypropylene (PP)
- **Product Dimensions:** 5.75"D x 5.75"W x 13.25"H
- **Item Weight:** 1.8 Pounds
- **Item Model Number:** #10 3G-ST BL/CL 3/4IB W/P
- **Inlet/Outlet Ports:** 3/4" NPT
- **Temperature Rating:** 40-125°F (4.4-51.7°C)
- **Maximum Pressure:** 125 psi (8.6 bar)
- **Product Benefits:** Enables easy and secure cartridge replacement for convenient maintenance

Warranty and Support

For specific warranty information and technical support, please refer to the official Pentair Pentek website or contact their customer service directly. Keep your purchase receipt for warranty claims.

You can visit the official Pentair Pentek store for more information and products:Pentair Pentek Store

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