Pentek 150435

Pentek 150435 3/4 inch Clear 10 inch Standard Filter Housing User Manual

Model: 150435

1. Introduction

This manual provides essential instructions for the installation, operation, and maintenance of your Pentek 150435 3/4 inch Clear 10 inch Standard Filter Housing. This housing is designed for various low-flow water filtration applications, accommodating standard 10-inch filter cartridges. Please read this manual thoroughly before proceeding with installation or use to ensure proper function and safety.





Image 1.1: The Pentek 150435 3/4 inch Clear 10 inch Standard Filter Housing. This image displays the transparent sump and the blue cap with 3/4 inch ports.

2. Safety Information

Observe all local plumbing and building codes. Failure to do so may result in property damage or personal injury. Always depressurize the water system before servicing the filter housing. Use appropriate tools and safety gear during installation and maintenance. Do not overtighten connections, as this may cause damage to the housing or fittings. This product is certified by ANSI and NSF, ensuring compliance with industry standards for material safety and structural integrity.

3. Package Contents

Verify that all components are present before beginning installation:

- Pentek 150435 Filter Housing (Head and Clear Sump)
- Housing Wrench (typically included for sump removal)
- O-ring (pre-installed or included separately)

Note: Filter cartridges, mounting brackets, and connection fittings are typically sold separately.

4. Setup and Installation

4.1 Pre-Installation

1. **Location:** Select a suitable location for the filter housing. It should be easily accessible for maintenance and protected from freezing temperatures and direct sunlight (to prevent algae growth in the clear sump).
2. **Tools:** Gather necessary tools including a pipe wrench, Teflon tape, pipe cutter, and appropriate fittings.
3. **Shut-off Water:** Turn off the main water supply before beginning any plumbing work.
4. **Depressurize:** Open a nearby faucet to relieve pressure in the water line.

4.2 Installation Steps

1. **Mounting:** If using a mounting bracket (sold separately), secure the filter housing head to the bracket. Then, attach the bracket to a sturdy vertical surface using appropriate screws.
2. **Apply Teflon Tape:** Apply 3-4 wraps of Teflon tape to the male pipe threads of all fittings that will connect to the filter housing ports. This is crucial for preventing leaks.
3. **Connect Plumbing:** Connect the inlet water line to the port marked 'IN' and the outlet water line to the port marked 'OUT' on the filter housing head. Ensure connections are secure but do not overtighten.
4. **Insert Filter Cartridge:** Unwrap the new filter cartridge. Ensure the O-ring is properly seated in the groove on the housing sump. Carefully insert the filter cartridge into the sump, ensuring it is centered on the standpipe.
5. **Attach Sump:** Thread the clear sump onto the housing head. Hand-tighten until snug, then use the housing wrench to tighten an additional 1/4 to 1/2 turn. Do not overtighten.

5. Operating Instructions

5.1 Initial Startup

1. **Slowly Restore Water:** With the filter housing installed, slowly turn on the main water supply.
2. **Purge Air:** Open a nearby cold water faucet to allow air to escape from the system. Let the water run until all air is purged and the water flows smoothly.
3. **Check for Leaks:** Carefully inspect all connections around the filter housing for any signs of leaks. If leaks are detected, turn off the water supply, depressurize, and re-tighten connections as needed.

5.2 Normal Operation

Once installed and purged, the filter housing operates continuously. The clear sump allows for visual inspection of the filter cartridge to monitor its condition and determine when replacement is necessary.

6. Maintenance

6.1 Filter Cartridge Replacement

Filter cartridges should be replaced when a noticeable drop in water pressure occurs or when the cartridge appears heavily soiled (visible through the clear sump). Replacement frequency depends on water quality and usage, typically every 3-6 months.

1. **Shut-off Water:** Turn off the main water supply to the filter housing.
2. **Depressurize:** Open a nearby faucet to relieve pressure.
3. **Remove Sump:** Place a bucket underneath the housing to catch any residual water. Use the housing wrench to loosen and remove the clear sump.
4. **Discard Cartridge:** Remove and discard the old filter cartridge.
5. **Clean Housing:** Clean the inside of the sump with warm, soapy water and a soft brush. Rinse thoroughly. Inspect and lubricate the O-ring with a silicone-based lubricant if necessary, or replace it if damaged.
6. **Install New Cartridge:** Insert a new, appropriately sized 10-inch filter cartridge into the sump.
7. **Reattach Sump:** Thread the sump onto the housing head. Hand-tighten, then use the wrench for an additional 1/4 to 1/2 turn.
8. **Restore Water:** Slowly turn on the water supply and purge air as described in Section 5.1. Check for leaks.

7. Troubleshooting

Problem	Possible Cause	Solution
Water Leakage	• Improperly seated O-ring • Loose sump connection • Damaged O-ring • Improperly taped pipe threads	• Ensure O-ring is correctly seated and lubricated. • Tighten sump connection (do not overtighten). • Replace O-ring. • Reapply Teflon tape to pipe threads.
Low Water Pressure	• Clogged filter cartridge • Air in the system • Incorrectly installed cartridge	• Replace filter cartridge. • Purge air from the system (Section 5.1). • Reinstall cartridge correctly.
Water Taste/Odor	• Expired or incorrect filter cartridge	• Replace filter cartridge with an appropriate type.

8. Specifications

- **Model:** Pentek 150435
- **Inlet/Outlet Size:** 3/4 inch NPT

- **Housing Material:** Plastic (Clear Sump)
- **Compatible Cartridge Size:** 10 inch standard (2.5 inch diameter x 10 inch length)
- **Product Dimensions:** Approximately 10 x 4 x 4 inches
- **Item Weight:** Approximately 2.74 pounds
- **Certifications:** ANSI, NSF
- **Country of Origin:** Mexico

9. Warranty and Support

Pentek products are manufactured to high-quality standards. For specific warranty information regarding your Pentek 150435 filter housing, please refer to the documentation provided at the time of purchase or visit the official Pentek website. For technical support or inquiries, please contact Pentek customer service through their official channels.

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