Pentek WS-20

Pentek WS-20 Water Softening Filter Cartridge Instruction Manual

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Pentek WS-20 Water Softening Filter Cartridge. This cartridge is designed to reduce hardness minerals and scale deposits in low flow rate residential and commercial water applications. Please read these instructions thoroughly before proceeding with installation or use.

Safety Information

- Always turn off the main water supply before installing or replacing the filter cartridge.
- Depressurize the system before opening the filter housing.
- Use appropriate tools and follow all local plumbing codes.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Ensure proper sealing to prevent leaks.
- The maximum operating temperature for this cartridge is 100°F (37.8°C). Do not exceed this temperature.

Product Overview

The Pentek WS-20 is a 20-inch by 2-1/2 inch water softening filter cartridge. It utilizes cation, sodium-form resin ion-exchange media, combined with polypropylene pre- and post-filters, to effectively reduce hardness minerals. It has a capacity of 1500 grains and is designed for a recommended flow rate of 0.75 gallons per minute (gpm).







Image: The Pentek WS-20 Water Softening Filter Cartridge, a white cylindrical filter with a label indicating its model and brand.

Setup and Installation

Pre-Installation

- **Tools Required:** Filter housing wrench, bucket, clean rags, plumber's tape (if needed).
- **Location:** Install the filter housing in an easily accessible location, protected from freezing temperatures and direct sunlight.
- **Water Supply:** Ensure the main water supply is turned off and the system is depressurized before beginning.

Installation Steps

1. Turn off the main water supply to the area where the filter will be installed.
2. Open a nearby faucet to relieve pressure in the water line.
3. Unscrew the filter housing sump using a filter wrench.
4. Remove any existing filter cartridge and dispose of it properly.
5. Clean the inside of the filter housing sump and inspect the O-ring for any damage. Replace the O-ring if necessary.
6. Insert the new Pentek WS-20 filter cartridge into the housing sump, ensuring it is seated correctly.
7. Carefully screw the sump back onto the filter head, hand-tightening first, then using the wrench for a snug fit. Do not overtighten.
8. Slowly turn on the main water supply, checking for leaks.
9. Flush the system by running water through a nearby faucet for several minutes to remove any air and fine particles.

Operation

Once installed, the Pentek WS-20 filter cartridge operates continuously to soften water as it flows through the system. The ion-exchange resin media captures hardness minerals, reducing scale buildup. The recommended flow rate is 0.75 gpm for optimal performance. Exceeding this flow rate may reduce the effectiveness of the softening process.

Maintenance

Filter Replacement

The Pentek WS-20 filter cartridge has a limited capacity and will eventually become exhausted. The replacement frequency depends on the incoming water hardness and usage volume. A noticeable decrease in water softening effectiveness or flow rate indicates it's time for replacement.

- Follow the "Installation Steps" in reverse to remove the old cartridge.
- Always replace with a genuine Pentek WS-20 cartridge to ensure continued performance and compatibility.
- Dispose of used cartridges according to local regulations.

Storage

Store new, unused filter cartridges in their original packaging in a cool, dry place, away from direct sunlight and chemicals. Do not store cartridges in freezing temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Reduced Water Flow	Clogged filter cartridge.	Replace the filter cartridge.
Water Not Softening	Exhausted filter cartridge; incorrect installation.	Replace the filter cartridge; re-check installation steps.

Problem	Possible Cause	Solution
Leaks from Housing	Improperly seated O-ring; overtightened/undertightened sump; damaged O-ring.	Ensure O-ring is clean and properly seated; tighten sump appropriately; replace O-ring if damaged.

Specifications

Attribute	Detail
Model Number	WS-20
Product Dimensions	2.5"D x 2.5"W x 20"H
Material	Polypropylene (PP), Resin
Item Weight	2.9 Pounds
Product Benefits	Softens water and prevents limescale build-up
Capacity	1500 grains
Recommended Flow Rate	0.75 gpm
Maximum Temperature	100°F (37.8°C)
External Testing Certification	FDA
UPC	051678320037

Warranty and Support

For warranty information and technical support, please refer to the official Pentek website or contact their customer service department. Keep your purchase receipt for warranty claims. This instruction manual does not constitute a warranty.
For further assistance, visit the Pentek Store on Amazon.

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