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› Hydronix SPC-45-2020 Pleated Water Filter User Manual

## Hydronix SPC 45 2020

# Hydronix SPC-45-2020 Pleated Water Filter User Manual

Model: SPC 45 2020

## PRODUCT OVERVIEW

The Hydronix SPC-45-2020 pleated water filter is designed for whole house, commercial, and industrial water filtration applications. This 20-micron filter is washable and reusable, offering a cost-effective and durable solution for sediment removal.

Key features include:

- Sediment pleated cartridge technology with a 20-micron rating.
- Excellent chemical and bacterial resistance.
- Constructed from pure 100% Polypropylene pleated sheet media.
- High dirt holding capacity for extended use.
- Dimensions of 4.5 inches by 20 inches, fitting most standard housings of this size.
- NSF certified for material requirements.



Image: A pack of six Hydronix SPC-45-2020 pleated water filters, showcasing their design and packaging.

## APPLICATIONS

The Hydronix SPC-45-2020 filter is suitable for a wide range of water filtration needs, including:

- Reverse osmosis pre-filtration
- Municipal drinking water filtration
- Commercial/residential drinking water filtration
- Desalination pre-filtration
- Industrial water filtration
- Cooling tower filtration
- Chill water loop filtration
- Food & Beverage filtration
- Marine/Aquatic filtration



## APPLICATIONS

- » Reverse osmosis pre-filtration
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SPC Performance

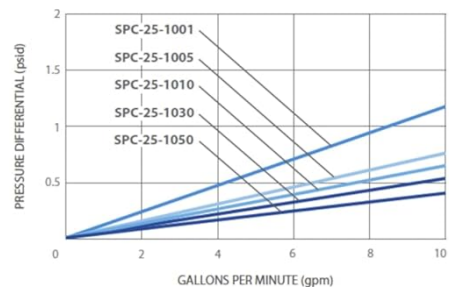


Image: Visual representation of the diverse applications for which the Hydronix SPC-45-2020 filter can be utilized, from drinking water to industrial processes.

## SETUP AND INSTALLATION

Proper installation is crucial for optimal filter performance. Always refer to your specific filter housing manual for detailed instructions. The SPC-45-2020 filter is designed to fit most 4.5" x 20" filter housings.

1. **Safety First:** Turn off the main water supply to the filter housing and relieve any pressure in the system.
2. **Open Housing:** Use a filter wrench to unscrew and open the filter housing sump.
3. **Remove Old Filter:** Carefully remove the old filter cartridge and dispose of it properly.
4. **Clean Housing:** Clean the inside of the filter housing sump with warm, soapy water and rinse thoroughly. Inspect the O-ring for any damage and replace if necessary. Lubricate the O-ring with a silicone-based lubricant if needed.
5. **Insert New Filter:** Insert the new Hydronix SPC-45-2020 filter cartridge into the housing, ensuring it is seated correctly on the center standpipe.
6. **Close Housing:** Screw the filter housing sump back onto the cap, hand-tightening it first, then using the filter wrench for a snug fit. Do not overtighten.
7. **Restore Water Supply:** Slowly turn on the main water supply, allowing the housing to fill with water. Check for

leaks.

8. **Flush System:** Run water through a nearby faucet for several minutes to flush out any air or carbon fines (if applicable to your system, though this is a sediment filter).



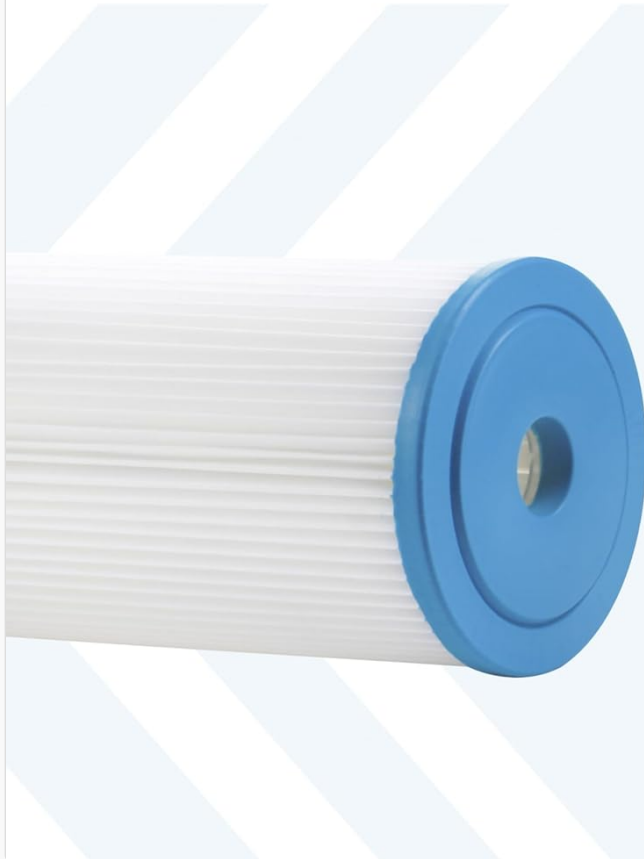
Image: A close-up view of a single Hydronix SPC-45-2020 filter, highlighting its pleated design which provides a larger surface area for filtration.

## OPERATING PRINCIPLES

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The Hydronix SPC-45-2020 filter operates on the principle of mechanical filtration. Water flows through the pleated polypropylene media, trapping sediment and particulate matter as small as 20 microns. The pleated design significantly increases the surface area, allowing for higher flow rates and lower pressure drop compared to traditional depth filters.

This design effectively prevents clogging of water pipes and prolongs the service life of water equipment by providing stable and continuous water flow without noticeable pressure drop.



## LARGER SURFACE AREA

Higher Flow rate, Lower pressure drop. Hydronix SPC sediment water filter can effectively prevent the clogging of water pipes and prolong the service life of water equipment. It provides you with stable and continuous water flow without noticeable pressure drop.

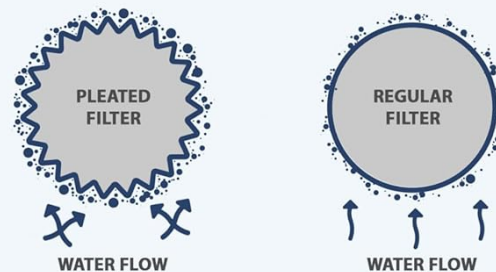


Image: A diagram illustrating the concept of "Larger Surface Area" in pleated filters, demonstrating how it leads to higher flow rates and lower pressure drop compared to regular filters.

## MAINTENANCE AND REPLACEMENT

The SPC-45-2020 filter is washable and reusable, extending its lifespan. Regular inspection and cleaning are recommended to maintain optimal performance.

### Cleaning Instructions:

1. Turn off water supply and relieve pressure as in installation.
2. Remove the filter cartridge from its housing.
3. Rinse the pleated surface thoroughly under running water to remove trapped sediment. A soft brush can be used to gently dislodge stubborn particles.
4. For heavily soiled filters, a mild detergent solution or a specialized filter cleaning solution can be used, followed by thorough rinsing.
5. Inspect the filter for any tears, damage, or signs of degradation. If damaged, replace the filter.
6. Reinstall the cleaned filter into the housing following the setup instructions.

### When to Replace:

While reusable, the filter will eventually reach the end of its effective life. Replacement is recommended when:

- You notice a significant drop in water pressure, indicating the filter is heavily loaded with sediment.
- The filter appears discolored or heavily clogged even after cleaning.
- Water quality deteriorates (e.g., increased turbidity or visible particles).

- The filter media shows signs of wear, tearing, or structural damage.



Image: A visual comparison of a new filter versus a used, discolored filter, accompanied by a color chart indicating different levels of clogging and when replacement is recommended.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Reduced Water Pressure	Clogged filter cartridge. Air trapped in the system.	Clean or replace the filter cartridge. Slowly open a nearby faucet to release trapped air.
Visible Particles in Water	Filter is damaged or improperly installed. Filter micron rating is too high for the particles.	Inspect filter for damage and reinstall correctly. Consider a lower micron filter if particles persist.

Problem	Possible Cause	Solution
Water Leaks from Housing	O-ring is damaged, improperly seated, or dry. Housing not tightened sufficiently.	Inspect and replace O-ring if damaged. Ensure O-ring is properly seated and lubricated. Tighten housing securely, but do not overtighten.

## SPECIFICATIONS

Attribute	Detail
Model Number	SPC 45 2020
Filter Type	Pleated Sediment Filter
Micron Rating	20 micron
Dimensions	4.5" Diameter x 20" Height
Material	Polyester, 100% Polypropylene pleated sheet media
Washable/Reusable	Yes
Chemical Resistance	Great chemical and bacterial resistance
Certifications	NSF (for material requirements)
UPC	635510409106



## SPC SERIES

- » Sediment pleated cartridge technology - 20 micron 4.5" x 20" fits most 4.5" x 20" housings
- » Manufactured from durable polyester
- » Made with FDA CFR 21 approved material
- » Chemical and Bacteria Resistant.
- » High dirt holding capacity. Washable and reusable.



This filter cartridge is tested and certified by NSF International to NSF/ANSI Standard 42 for material requirements only and NSF/ANSI/CAN 61, NSF/ANSI 372

Image: Detailed specifications and features of the SPC Series filter, including its NSF certification and material properties.

## WARRANTY AND SUPPORT

For specific warranty information and customer support regarding your Hydronix SPC-45-2020 pleated water filters, please refer to the official Hydronix website or contact their customer service directly. Hydronix is committed to providing high-quality water filtration products and solutions.

You can find more information and contact details on the official Hydronix website: [www.hydronixwater.com](http://www.hydronixwater.com)

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For technical assistance, please visit the official Hydronix support page.