Pentek C1-20

Pentair Pentek C1-20 Carbon Water Filter Instruction Manual

Model: C1-20 | Brand: Pentek

1. Introduction

The Pentair Pentek C1-20 Carbon Water Filter is a dual-purpose replacement cartridge designed for general-purpose water filtration. It effectively filters out fine sediment particles and reduces unwanted taste, odor, and chlorine from tap water. Constructed with carbon-impregnated cellulose media, this cartridge is suitable for a wide range of residential applications and can serve as an excellent polishing filter in process or closed-loop streams.

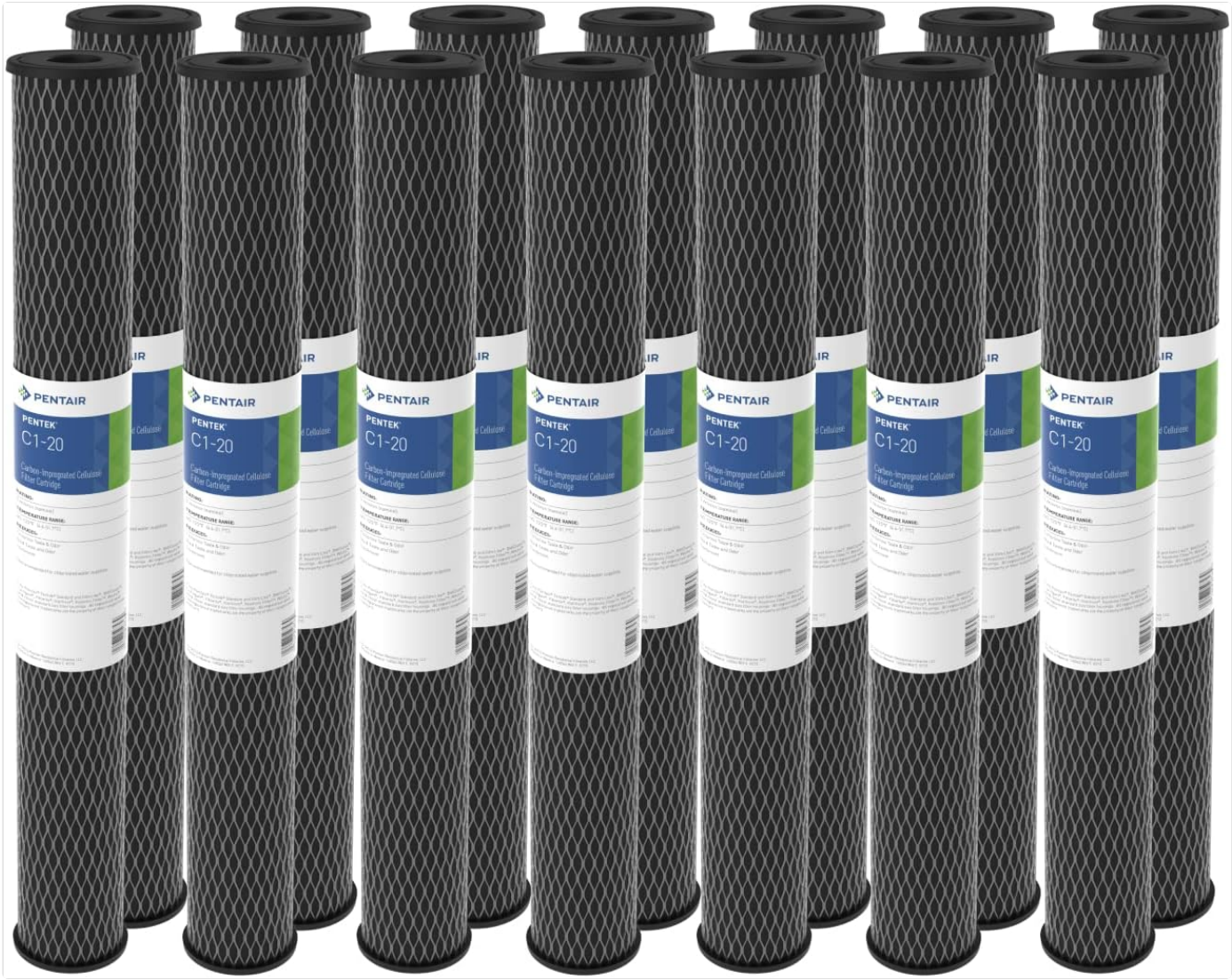


Image 1.1: A pack of 14 Pentair Pentek C1-20 Carbon Water Filters, illustrating the product in its packaged quantity.

2. Key Features and Benefits

- **Dual-Purpose Filtration:** Filters fine sediment particles and reduces unwanted taste, odor, and chlorine in a single cartridge.
- **Standard Compatibility:** Designed to fit all 20-inch standard filter housings and can replace any 20" x 2.5" carbon filter cartridge.
- **Economical Solution:** Provides cost-effective water filtration for residential chlorinated water supplies.
- **Polishing Filter:** Functions effectively as a polishing filter in process or closed-loop water systems.
- **High Capacity:** Offers a 10,000-gallon capacity, ensuring prolonged filtration performance.



Pentair‡ Pentek‡ C Series Cartridges offer an economical solution for all your general-purpose water filtration needs. Constructed of a carbon impregnated cellulose media, these dual-purpose cartridges filter out fine sediment particles and reduce unwanted taste, odor, and chlorine taste & odor from your tap water.* External netting provides additional strength and dirt-holding capacity.

C Series Cartridges are available in a variety of sizes and are nominally rated at 5-microns.

These dual-purpose cartridges are well suited for a wide range of residential applications, and make excellent polishing filters when used in process or closed-loop streams.

FEATURES/BENEFITS

- Available in three lengths and three diameters
- Basic chlorine reduction at a very good economic value
- Both chlorine and sediment reduction
- High flow rates possible due to low initial pressure drop
- Good dirt holding capacity
- General purpose taste and odor reduction for residential chlorinated water supplies
- Polishing filter for process or closed-loop streams

SPECIFICATIONS

- Filter Media – PAC impregnated cellulose
- Endcaps – Vinyl plastisol
- Netting – Polyethylene
- Core – Polypropylene
- Temperature Rating – 40-125°F (4.4-51.7°C)

Image 2.1: Visual representation of Pentair Pentek C Series Cartridges, highlighting key features and specifications such as filter media, netting, core, and temperature rating.

3. Safety Information

Please read and understand all safety instructions before installing or replacing the filter cartridge. Failure to follow these instructions could result in property damage or injury.

- Always turn off the main water supply before attempting any installation or maintenance.
- Relieve water pressure in the system before opening the filter housing.
- Use appropriate tools and follow manufacturer guidelines for your specific filter housing.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Ensure all connections are secure to prevent leaks.

4. Package Contents

- Pentair Pentek C1-20 Carbon Water Filter Cartridge(s)

5. Setup and Installation

This section outlines the general steps for installing or replacing your Pentair Pentek C1-20 filter cartridge. Refer to your specific filter housing manual for detailed instructions.

1. **Turn off Water Supply:** Locate and turn off the main water supply valve to your home or the specific water line feeding the filter housing.
2. **Relieve Pressure:** Open a nearby faucet to relieve any residual water pressure in the system.
3. **Open Filter Housing:** Use a filter wrench (if necessary) to unscrew and remove the filter housing sump.
4. **Remove Old Cartridge:** Carefully remove the used filter cartridge and discard it according to local regulations.
5. **Clean Housing:** Clean the inside of the filter housing sump with warm, soapy water. Rinse thoroughly. Inspect and lubricate the O-ring with a silicone lubricant if needed, or replace if damaged.
6. **Insert New Cartridge:** Place the new Pentair Pentek C1-20 filter cartridge into the housing sump. Ensure it is properly seated on the standpipe at the bottom of the housing.
7. **Secure Housing:** Screw the filter housing sump back onto the cap. Hand-tighten first, then use a filter wrench for a snug fit, but do not overtighten.
8. **Restore Water Supply:** Slowly turn on the main water supply valve.
9. **Check for Leaks:** Monitor the filter housing for any leaks.
10. **Flush System:** Open a nearby cold water faucet and let the water run for several minutes to flush out any air or carbon fines from the new filter. The water may appear cloudy initially; this is normal and will clear.

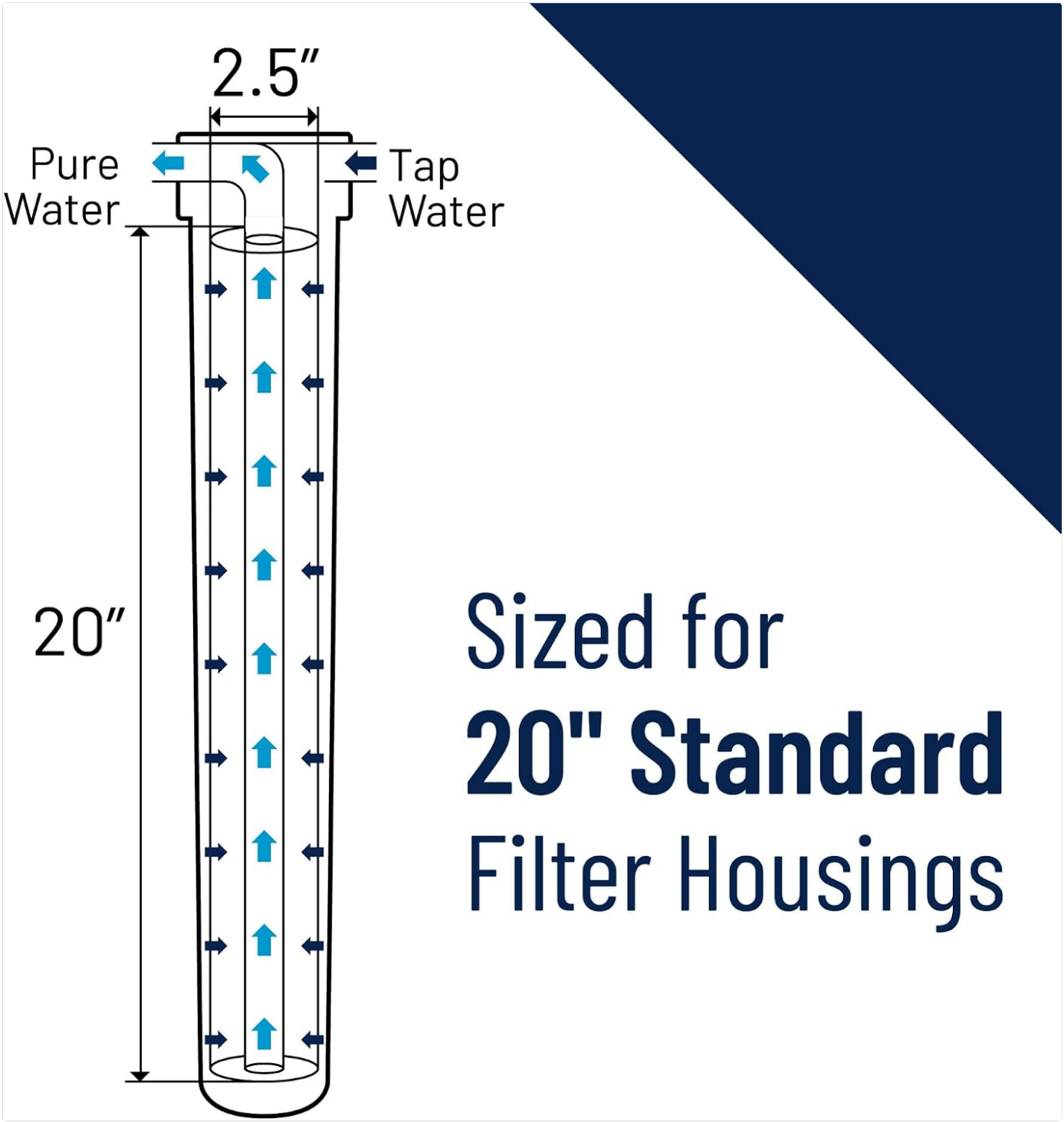


Image 5.1: Diagram illustrating the dimensions (20" length, 2.5" diameter) and water flow path (from tap water inlet, through the filter media, to pure water outlet) for the filter cartridge.

6. Operating Instructions

Once properly installed and flushed, the Pentair Pentek C1-20 Carbon Water Filter operates passively as water flows through your system. No further user interaction is required for its daily operation.

- Ensure the water supply remains on for continuous filtration.
- The filter will continuously reduce sediment, taste, odor, and chlorine from your water.

7. Maintenance

Regular replacement of your filter cartridge is crucial for maintaining optimal water quality and system performance.

- **Replacement Frequency:** Replace the Pentair Pentek C1-20 filter cartridge every 3 months or after filtering 10,000 gallons, whichever comes first.
- **Performance Indicators:** Replace the cartridge sooner if you notice a significant change in water pressure (reduced flow) or a return of unwanted taste, odor, or chlorine in your water.
- **Replacement Procedure:** Follow the steps outlined in the "Setup and Installation" section (Section 5) for cartridge replacement.



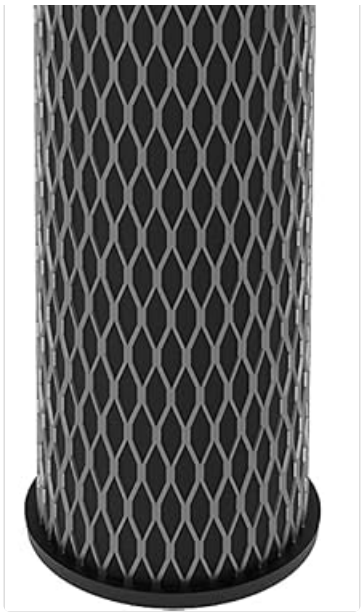


Image 7.1: A single Pentair Pentek C1-20 Carbon Water Filter cartridge, ready for installation or replacement.

8. Troubleshooting

If you encounter issues with your water filtration system, consider the following common troubleshooting steps:

- **Reduced Water Flow:** This often indicates a clogged filter cartridge. Replace the cartridge as described in Section 7. Ensure the main water supply valve is fully open.
- **Unwanted Taste/Odor Returns:** This is a sign that the filter's capacity for chlorine and odor reduction has been exhausted. Replace the cartridge immediately.
- **Leaks from Housing:** Turn off the water supply. Check the O-ring for proper seating, damage, or dryness. Clean the O-ring groove and lubricate the O-ring with silicone grease. Ensure the housing is securely tightened, but not overtightened.
- **Cloudy Water After Replacement:** This is typically air or carbon fines being flushed from a new filter. Let the water run for several minutes until it clears. If cloudiness persists, ensure the filter is correctly installed.

If problems persist after attempting these steps, contact customer support.

9. Specifications

Attribute	Detail
Model Number	C1-20
Brand	Pentek
Material	Carbon-Impregnated Cellulose
Product Dimensions	20"D x 2.5"W (approximate, fits 20" standard housings)
Item Weight	0.77 Pounds (approximate per filter)
External Testing Certification	NSF
Product Benefits	Removes Pollutants, Reduces Taste, Odor, and Chlorine

Attribute	Detail
Micron Rating	5 Micron (Nominal)
Capacity	10,000 Gallons
Color	Gray

10. Warranty and Support

For warranty information or technical support regarding your Pentair Pentek C1-20 Carbon Water Filter, please refer to the official Pentair website or contact their customer service department directly. Keep your purchase receipt as proof of purchase.

Pentair Customer Support:

- Visit the official Pentair website for contact details and support resources.
- When contacting support, please have your product model number (C1-20) and purchase date available.

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