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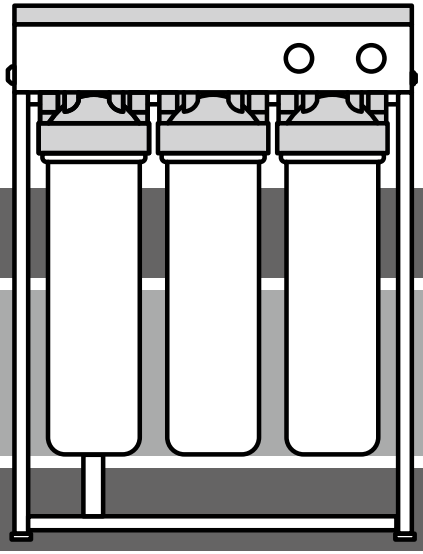

DFS-5221

3 Stage Big Blue Whole House Filter

User Manual

Contents

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Introduction

Thank you for purchasing the Puricom DFS-5221 Whole House Filtration Water Purifier (hereinafter referred to as "DFS-5221").

The DFS-5221 combines functionality and aesthetic design, providing stable water quality, excellent filtration performance, and easy maintenance, ensuring clean and safe drinking water for your home.

DFS-5221 Key Features:

- Streamlined body design for easy maintenance and filter replacement.
- Hidden tubing for clean and elegant appearance.
- Professionally designed layout to prevent damage and contamination.
- Built-in pressure gauge and water hammer arrestor for system stability.
- Auto-flushing function to extend the lifespan of the UF membrane.
- Utilizes high-pressure, chemically resistant spiral-wound UF membranes for enhanced durability.
- Filter combinations can be customized based on actual needs.

This manual will guide you through the installation and maintenance process. Please read it thoroughly before use and keep it for future reference.

Safety Precautions

Please read carefully to protect your property and yourself.

Electrical Safety

1. Verify voltage matches local specifications.
2. Avoid using damaged cords or loose sockets.
3. Do not handle the plug with wet hands.
4. Do not tie or bend power cords.
5. Do not use wet plugs or cords.
6. Unplug before maintenance or part replacement.
7. Do not share an extension cord with other appliances.
8. Shut off the valve and unplug if unused for extended periods.
9. Do not repair, disassemble, or modify the unit yourself.
10. Avoid frequent unplugging to prevent fire.
11. Clean plugs regularly with a dry cloth. Avoid petroleum cleaners.
12. Do not pull the unit by the cord.

Installation Safety

1. Keep away from heaters or fire sources.
2. Place away from flammable materials.
3. Install on a stable surface to avoid tipping.
4. Recommended indoor installation or sheltered area if installed outdoors. Avoid rain, direct sunlight, strong wind, or freezing conditions. Use a waterproof cover.

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Operational Safety

1. Shut off water and unplug if leakage occurs.
2. Unplug immediately if there's an abnormal sound or odor.
3. Do not place flammable objects on the unit.
4. Run water for 30 seconds if not used for a long time.
5. Replace filters regularly for quality assurance.
6. Black residue when replacing carbon filters is harmless and will flush out.

Other Notices

1. Clean with a cloth only. Avoid petroleum cleaners.
2. Don't pull by the power cord.
3. Avoid unauthorized repairs or modifications.
4. Use cold water only: 5˚C–40˚C.
5. Inlet pressure: 25–75 psi.
6. Max pressure: 125 psi.
7. TDS must be <1000 ppm; hardness <250 ppm.
8. Avoid direct sunlight and humidity; ideal temperature: 4˚C–40˚C.
9. Flush carbon filters until water runs clear after replacement.

■ Product Specifications

Model	DFS-5221
Type	Whole House Water Filtration System
Filter Specs	**PP 5μm, Sintered Activated Carbon (CTO):** Standard 20" x 4.5" **UF Membrane:** Custom specification 20-inch filter element
Dimensions	D23.5cm × W66.6cm × H90cm
Rated Voltage	AC100V-240V, 50/60Hz
Rated Power Consumption	36W
Max Flow Rate	45 LPM (12 GPM) @ 75 psi (5kg/cm²)
Inlet/Outlet Size	1 inch
Applicable Water pH Range	6-11

■ Water Inlet Requirements

TDS	< 1000ppm
Pressure	25~75 psi (1.5 ~5 kgf/cm²)
Hardness	< 250ppm
Temperature	5~40 ℃ (40-100℉)

Note: If the water source used does not meet the water inlet conditions, please contact service personnel.

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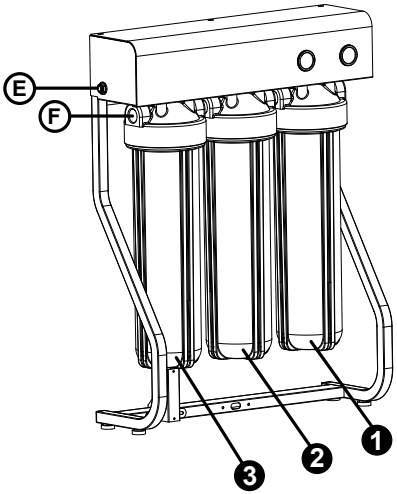
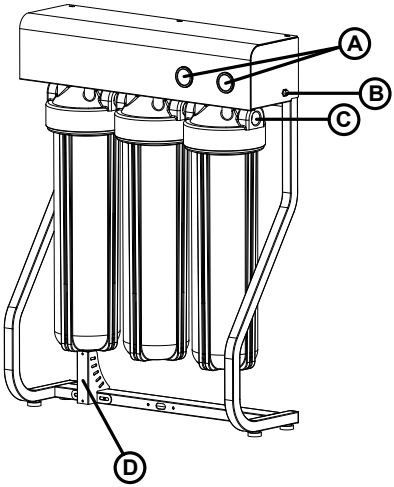
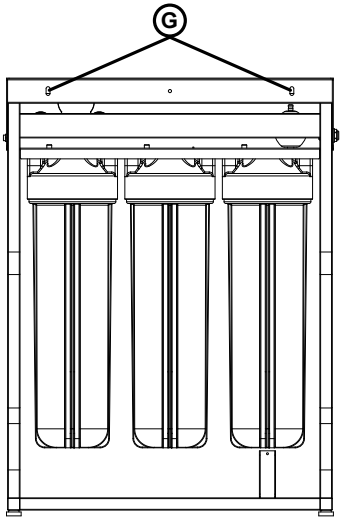
■ Product Part Descriptions





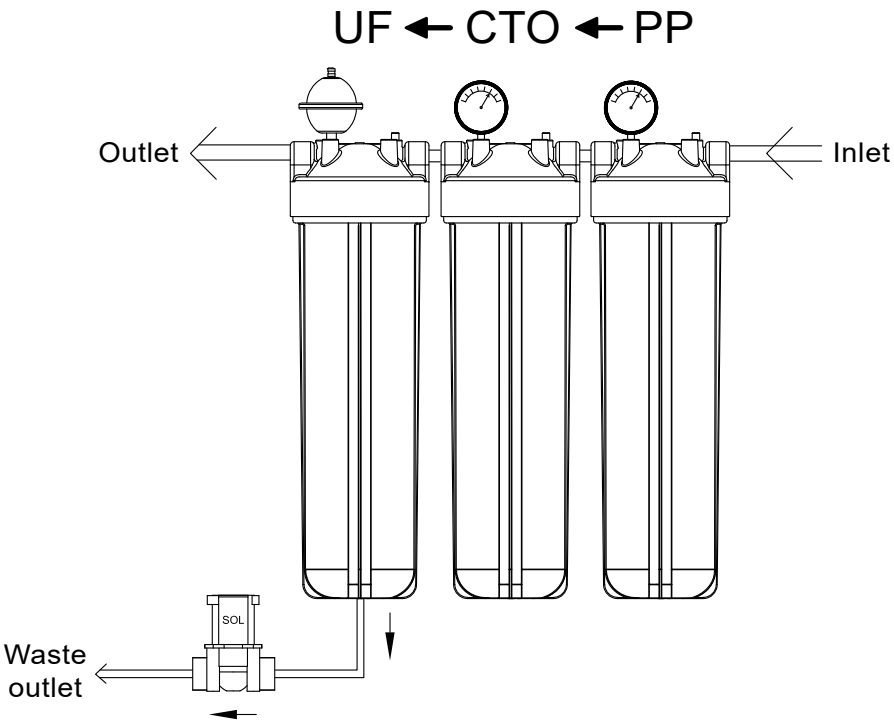


A	Pressure Gauge
B	Power Connection
C	Main Water Inlet
D	Water tube protector
E	Waste Water Outlet
F	Filtered Water Outlet
G	Wall Mount Bracket

1	Filter 1 – PP 5μm
2	Filter 2 – Sintered Activated Carbon (CTO)
3	Filter 3 – UF Membrane

Note: Three filters are pre-installed

System Flow Diagram



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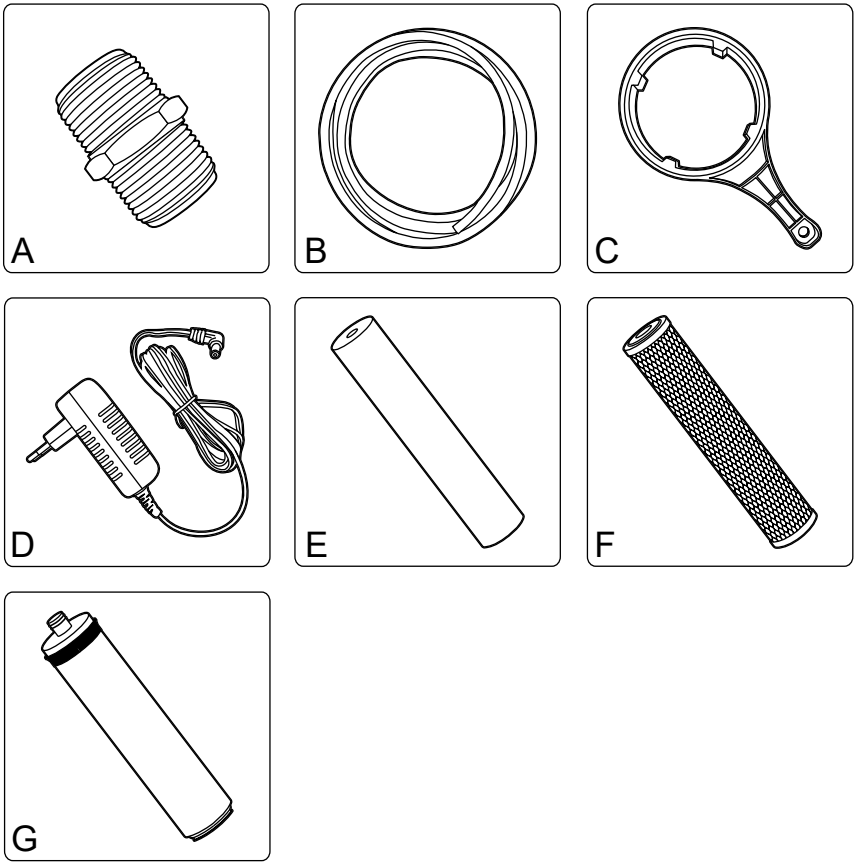
■ Included Parts and Filter Combinations



Accessory Bag	A: 1" Straight Connector	B: White PE Tubing (3/8")	
	C: Wrench	D: Power Adapter (DC24V, 1.5A)	
Filters	E: PP Filter 5μm	F: CTO Filter	G: UF Membrane

Required Installation Tools

1	Goggles	2	Phillips Screwdriver
3	Pipe Cutter	4	Adjustable Wrench
5	Towel	6	Deburring Tool
7	Flashlight	8	Thread Seal Tape

Note: Water inlet joint and ball valve need to be prepared by yourself.

Filter Function Description & Recommended Filter Replacement

Order	Filter Material	Function	Replace Every
1	PP 5μm	Filters sediment, rust, sand, lime, dirt, colloids, etc.	6 months
2	Sintered Activated Carbon	Removes odors, chlorine, chemicals, pesticides, carcinogens, etc.	6 months
3	UF Membrane	Removes 99% of bacteria, viruses, algae, and organic molecules	12 months

Filter Housing Replacement Recommendation

To avoid costly future maintenance or leaks, replace housings every 5 years.

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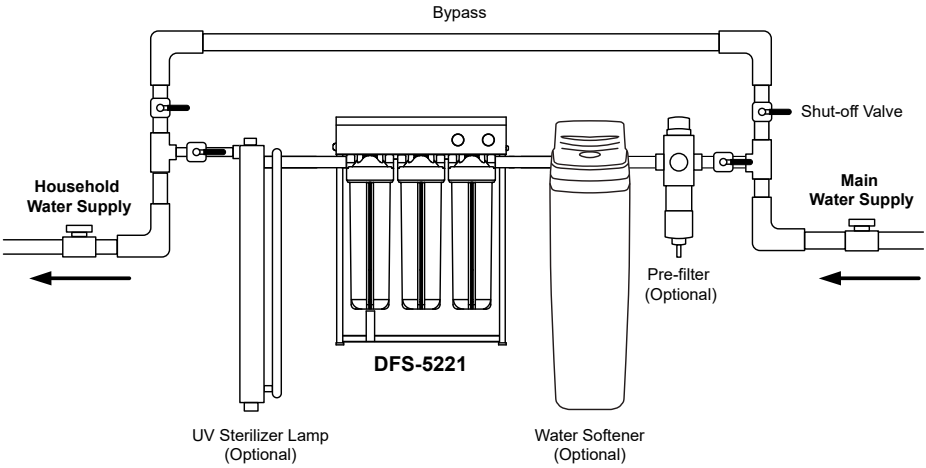
■ Installation Diagram



The filter should be installed on the main water line, close to where the pipe enters the house, but after the main shut-off valve and before the water splits in different directions. Depending on your filtration needs, it may also be installed after the indoor/outdoor water split.

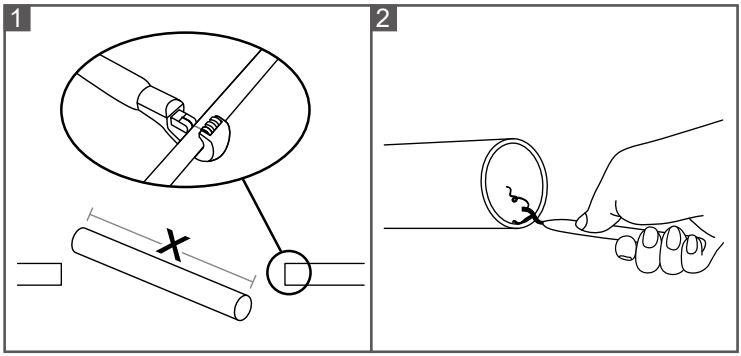
As the unit contains electronic components, it's recommended to install it indoors or in a sheltered area. If outdoor installation is necessary, ensure it's on a flat, level surface and protected from rain, direct sunlight, strong winds, and freezing temperatures. Using a waterproof cover is also advised to ensure proper operation and extend product life.

⚠ Note:：

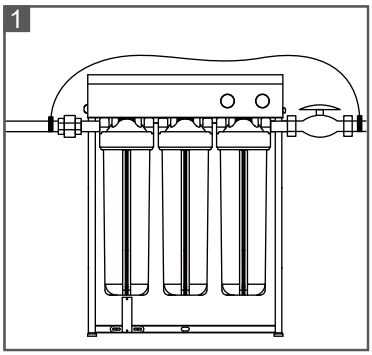
1. The DFS-5221 uses 1-inch vertical straight connectors, and additional fittings may be required to match your existing plumbing system.
2. It is recommended to install a shut-off valve before the filter system.

Installation Procedure

A. Pre-Installation Notes:



1. Mark the section of pipe to be cut and use a pipe cutter to remove that segment.
2. Use a deburring tool to smooth the cut pipe ends, removing any jagged edges or protrusions to ensure a proper seal during installation.



1. If the water pipe is also used as a ground for electrical systems, appliances, or telephone lines, be sure to install a bonding wire (as shown in the diagram). For more information, consult your local electrician.

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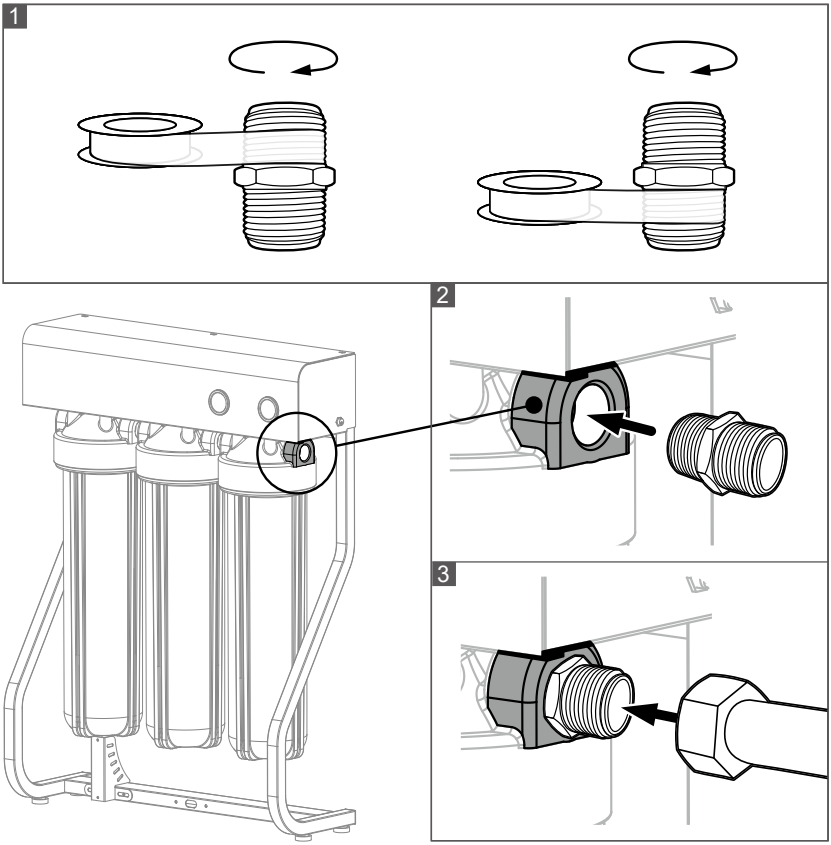
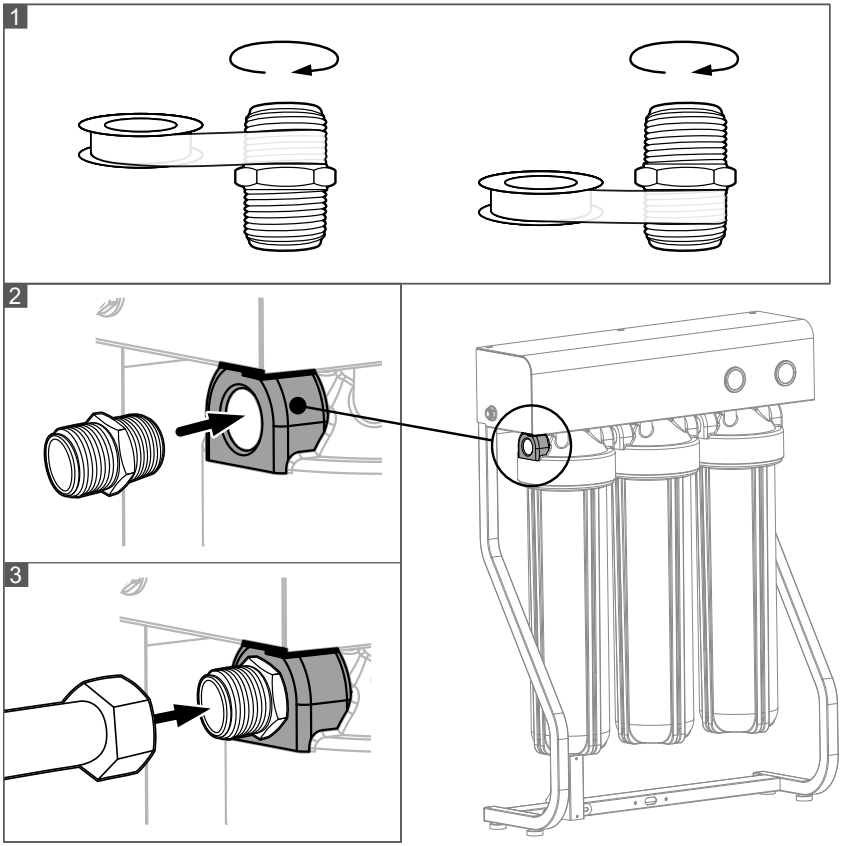
B. Water Inlet Connector Installation



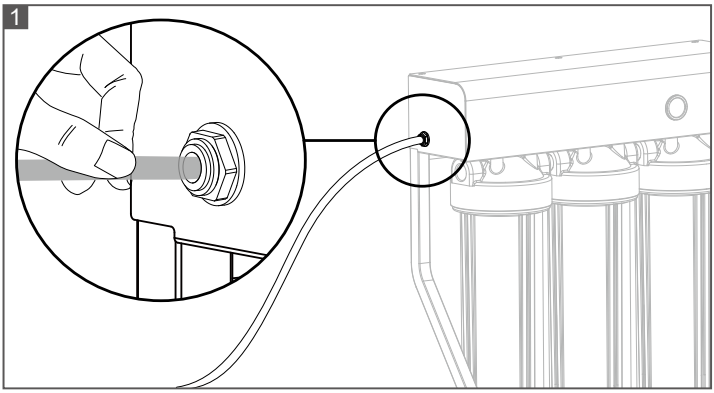
1. Take the straight connector from the parts bag and evenly wrap thread seal tape around both threaded ends. Depending on your pipe size, 12 to 15 wraps may be needed. Start with about 6–7 wraps, pressing the tape firmly against the threads (no need to cut it yet), then continue wrapping as needed. Smooth the tape flat before installation.
2. Refer to Diagram Ⓒ on page 5 to attach the inlet connection.
3. Connect the inlet pipe to the straight connector to complete the inlet pipe installation.

C. Outlet Connector Installation



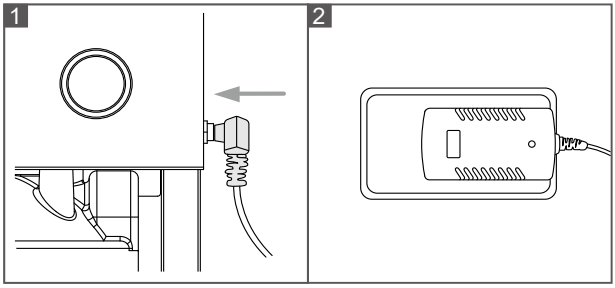
1. Take the straight connector from the parts bag and evenly wrap thread seal tape around both threaded ends. Depending on your pipe size, 12 to 15 wraps may be needed. Start with about 6–7 wraps, pressing the tape firmly against the threads (no need to cut it yet), then continue wrapping as needed. Smooth the tape flat before installation.
2. Refer to Diagram Ⓕ on page 5 to attach the outlet connection.
3. Connect the outlet pipe to the straight connector to complete the outlet pipe installation.

D.Wastewater Installation



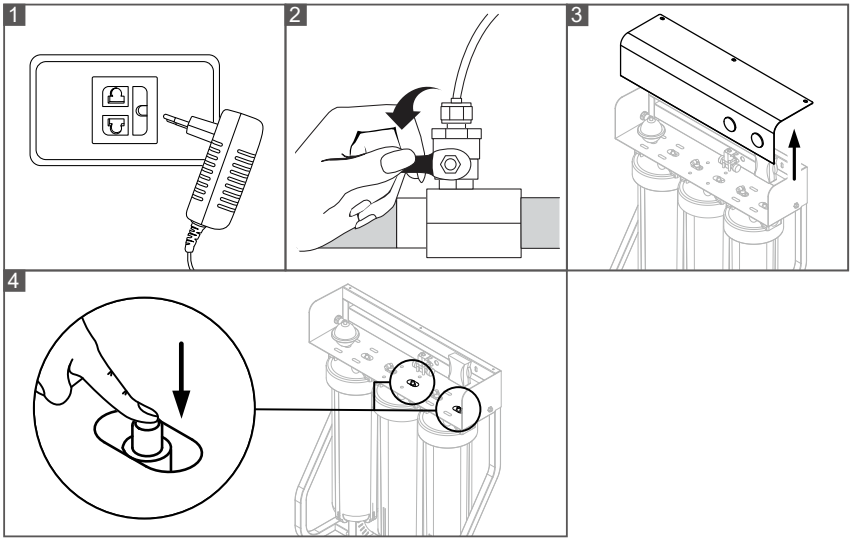
1. Refer to Diagram Ⓔ on page 5 and connect the PE tube to complete the wastewater installation.

E.Power Supply

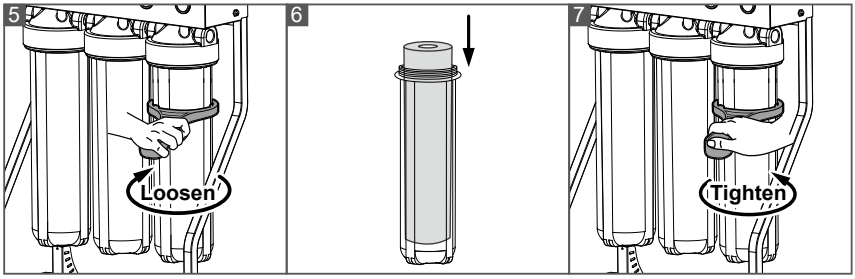


1. Refer to Diagram Ⓑ on page 5 to connect the power supply.
2. Plug in the power to start the system.

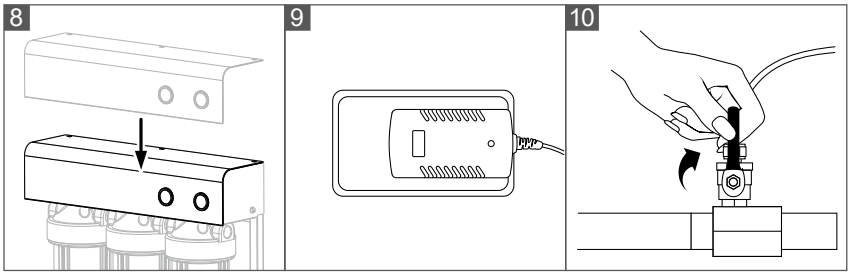
■ Filters 1 & 2: Replacement & Maintenance



1. Unplug the power cord.
2. Close the main water supply ball valve.
3. Open the top cover.
4. Press the button to release the pressure in the pipe.



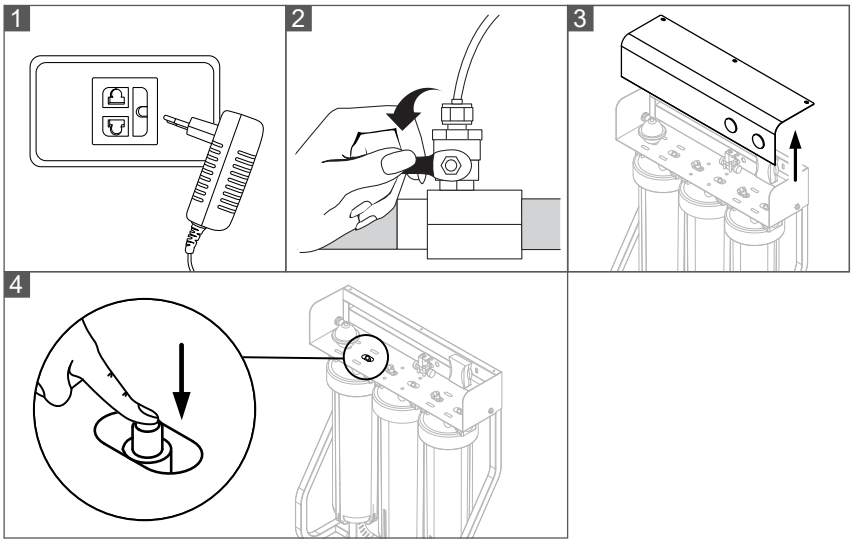
5. Turn clockwise as shown in the figure to remove the filter element to be replaced.
6. Replace the filter element with a new one.
7. Screw in the new filter element in a counterclockwise direction as shown in the figure and tighten it.



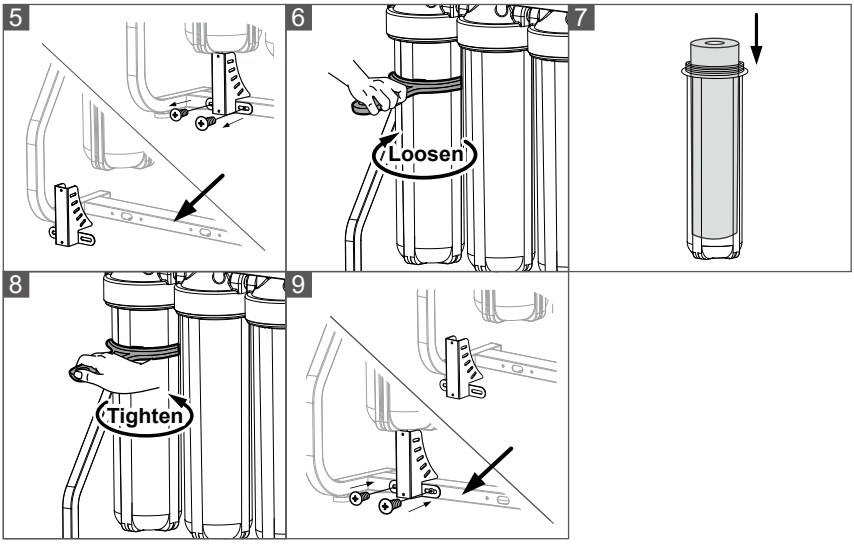
8. Close the upper cover.
9. Plug in the power plug.
10. Open the main water supply ball valve to complete the filter element replacement.

Note: After replacing the sintered activated carbon filter element (second pass), the activated carbon powder in the filter element must be flushed. Please continue to flush the filter element for the first time until the water is clear.

■ Steps for Replacing Filter 3:



1. Unplug the power cord.
2. Close the main water supply ball valve.
3. Open the top cover.
4. Press the button to release the pressure in the pipe.



5. Use a Phillips screwdriver to loosen the screws and remove the water tube protector.
6. Turn clockwise as shown in the figure to remove the filter element to be replaced.
7. Replace the filter element with a new one.
8. Screw in the new filter element in a counterclockwise direction as shown in the figure and tighten it.
9. Reinstall the water tube protector, put in the screws and tighten them with a Phillips screwdriver.

After replacing the third filter, please refer to page 15 (First to Second Filter Replacement and Maintenance) follow steps 8 - 10 to complete the filter element replacement.

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■ Troubleshooting Guide

Issue	Solution
Leaking at housing	The tap water pressure is too high; make sure it is below 75psi. If the water pressure is too high, install a pressure reducing valve.
	The O-ring may not be installed correctly. Clean the O-ring first and apply a layer of silicone grease lubricant and clean the groove where the O-ring sits. Next, place the O-ring correctly in the groove above the threads. Screw the filter cup firmly back into the filter head by hand first, then tighten it gently with the filter change tool without excessive force. If water leakage is still found after adjusting the O-ring, please contact customer service for assistance.
Water inlet/ outlet joint leakage	Rewrap the thread seal tape of each joint. Measure to ensure a tight seal.
	The joints may need to be tightened an additional half turn with a wrench. Do not over-tighten.
Leakage at the pressure relief button	Tighten the screw under the bracket for the pressure relief button.
Low pressure over time	Replace the filter every 6-12 months. The actual replacement frequency will depend on the incoming water quality. Low pressure usually means that the filter element is nearing the end of its life and should be replaced.
A drop in water pressure occurs immediately after installation (when using an activated carbon filter)	Make sure that the plastic packaging on the filter element has been removed.
	Avoid using high-flow water fixtures—such as bathtubs, sinks, showers, or garden hoses—during the first 72 hours after installation. Excessive water use may temporarily clog the activated carbon filter. If this occurs, shut off all water-using equipment for at least 10 minutes, then resume use at a low or normal flow rate to clear the blockage.
Cloudy or gray water	For the first 3–5 days after installation, the water may appear cloudy or gray due to tiny air bubbles and residual carbon powder from the filter (depending on the filter type). When replacing a sintered carbon filter, any black residue is simply carbon powder and is harmless. It will clear after flushing.

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