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› Geekpure 10 Inch Reverse Osmosis Water Filter Housing - Installation and Maintenance Manual

## Geekpure RO5-FH10S

# Geekpure 10 Inch Reverse Osmosis Water Filter Housing

Model: RO5-FH10S - Installation and Maintenance Manual

## 1. PRODUCT OVERVIEW

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This manual provides instructions for the installation, operation, and maintenance of your Geekpure 10 Inch Reverse Osmosis Water Filter Housing. This housing is specifically designed as a replacement component for under-sink reverse osmosis (RO) and pre-filtration systems.

The clear housing allows for convenient visual inspection of the filter cartridge, helping you determine when a replacement is needed. When the PP sediment filter appears dark yellow or brown, it indicates it's time for replacement.

**Model Number:** RO5-FH10S

## 2. WHAT'S INCLUDED

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The package includes the following components:

- 1 x Filter Housing (Clear Sump and White Cap)
- 2 x O-rings (one pre-installed, one spare)
- 1 x Filter Wrench
- 2 x Quick-Connect Fittings (1/4" BSP Thread)
- 1 set of Screws

# Fit For Other Brands Ro System?

The housing fit for standard size 2.5 x 10 inch filter cartridges, **BUT it don't fit other brands filter housings, different brand, thread part is different, please replace whole filter housing with top head. or else, please choose replacement filter housing from your previous seller.**



Figure 2.1: Included components of the Geekpure RO Filter Housing.

## 3. IMPORTANT COMPATIBILITY NOTE

This filter housing is **not a universal fit**. Thread sizes and specifications can vary significantly between different brands of RO systems. If you are replacing an existing filter housing, it is crucial to ensure compatibility.

- If your existing RO system is **not** a Geekpure brand, the thread part and injection mold may be different. In such cases, you may need to replace the entire filter housing (top head and sump) together, or source a replacement housing directly from your original system's brand.
- Attempting to reuse the top head from a different brand with this sump may lead to leaks or improper fit.



Figure 3.1: Compatibility information for the RO Filter Housing.

## 4. INSTALLATION INSTRUCTIONS

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Follow these steps for proper installation of the filter housing:

1. **Turn off the water supply:** Locate and turn off the feed water valve to your RO system.
2. **Depressurize the system:** Turn off the tank ball valve and open the faucet of your RO system to release pressure.
3. **Remove old housing:** Use the provided filter wrench to unscrew and remove the old filter housing.
4. **Prepare new housing:** Remove the new Geekpure filter housing from its packaging.
5. **Install filters:** Place the appropriate filter cartridges into the housing according to your system's requirements (e.g., PP sediment, Granular Carbon, Carbon Block).
6. **Apply Teflon tape:** For the inlet/outlet threads, wrap enough Teflon tape (3-5 layers) to ensure a watertight seal.
7. **Lubricate O-rings:** Remove the O-rings from the cap and lubricate them with food-grade silicone lubricant. This helps create a tight seal and prevents leaks.
8. **Assemble housing:** Carefully screw the clear sump onto the white cap, ensuring the O-ring is properly seated in its groove. Hand-tighten first, then use the filter wrench for a snug fit. Do not over-tighten.

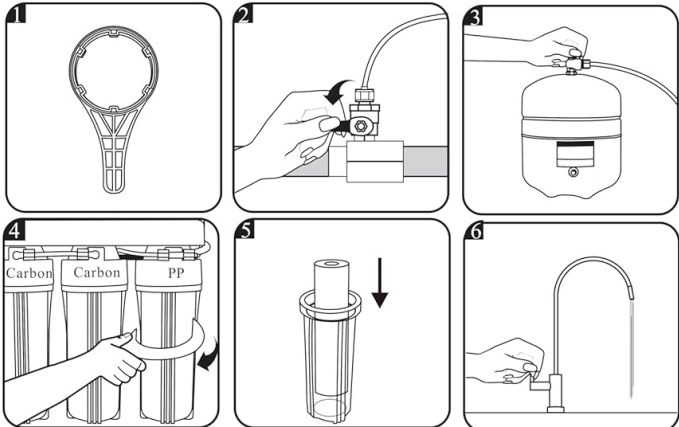
9. **Connect to system:** Install the top head of the Geekpure filter housing to your RO system. Use the included quick-connect fittings if required.
10. **Check for leaks:** Slowly turn on the feed water valve and inspect for any leaks. If leaks occur, turn off the water, relieve pressure, and re-tighten the housing or re-apply Teflon tape/lubricant.

## Replace Filter Housing

- Turn off feed water valve
- Turn off tank ball valve and faucet of your RO system
- Take out new filter housing and wrench from packing
- Take off old housing from system
- Install top head of Geekpure filter housing to the system
- Remove Pre-Filters from packaging
- Place filters in appropriate housings according to labels and install
- Filter housing from right to left in the following order: PP ,Granular Carbon,Carbon Block,if your Ro system is not Geekpure brand, please refer your original instruction.
- Tightening housings with wrench provided.

**Note for filter housing install**

- 1.Feed water pressure is best 50 psi or less.
- 2.In thread part of inlet/outlet,please wrap ENOUGH seal tape. Teflon tape, then a layer of Pro Dope joint compound or other glue ,then Teflon tape again.
- 3.Please remove canisters from the caps, clean the O ring surfaces and re lubricate. the rubber o-ring provides the water tight seal between the cap and the sump. it is important that the o-ring be properly seated in the groove of a water leak could occur.
- 4.By using the supplied wrench and making very tight.
- 5.Please consider to install water hammer arrestor in your water line. Prevent water hammer noise and absorb shock and vibration, protect your plumbing system.



**Note:** When installing housings make sure housing is level and even to avoid leaking.

**NOTE:** Geekpure Reverse Osmosis Water Filter Housing fit with most RO systems using standard 10" filters. But different brand, the injection mould is totally different, **NOTE: PLEASE REPLACE TOP HEAD AND HOUSING BODY TOGETHER.** If you just replace bottom housing part, it can not fit your old housing, please take off screws on the bracket and replace top head, use the fitting in the box. **if this situation and you don't want to change top head, the housing is out of warranty policy.**

Figure 4.1: Filter housing replacement steps.



Figure 4.2: Using the filter wrench for installation and removal.

### Installation Notes:

- Ensure the water pressure is between 10-50 psi.

- Maintain a work temperature between 40-120°F (5-50°C).
- When installing housings, ensure they are level to prevent leaks.
- Consider installing a water hammer arrestor in your water line to absorb shock and vibration, protecting your plumbing system and filter housings.

Video 4.1: Unboxing and overview of the Geekpure 10 Inch Reverse Osmosis Water Filter Housing components.

## 5. OPERATION

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The clear design of this filter housing allows for easy monitoring of your filter cartridge's condition. Regularly inspect the sediment filter (typically the first stage in an RO system). When the filter material changes color to dark yellow or brown, it indicates significant sediment accumulation and signals that the filter needs to be replaced to maintain optimal water quality and system performance.

## 6. MAINTENANCE

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### O-Ring Care:

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To prevent leaks and ensure a proper seal, always lubricate the O-rings with food-grade silicone lubricant during installation and every filter change. This helps the O-ring seat correctly and maintains its flexibility.



Figure 6.1: Proper O-ring placement and lubrication are essential for a leak-free seal.

### Filter Cartridge Replacement:

Replace filter cartridges according to the manufacturer's recommendations or when you observe a significant change in water flow or filter color. This housing fits standard 2.5" x 10" filter cartridges. Compatible filter cartridge options include:

- ASIN: B07LC7RXDB
- ASIN: B07LCDDYHQ
- ASIN: B07LCCJ9P5
- ASIN: B07L9XRCSC
- ASIN: B07LC9G584
- ASIN: B07BGRLFG4
- ASIN: B074XCYF93
- ASIN: B07BGXTY3B

## 2.5" x 10" Filter Options



ASIN:B07LC7RXDB



ASIN:B07LCDDYHQ



ASIN:B07LCCJ9P5



ASIN:B07L9XRCSC



ASIN: B07LC9G584



ASIN:B07BGRLFG4

**Note:** Just Housing in the Box,  
Please Choose Water Filters as You Need

Figure 6.2: Examples of compatible 2.5" x 10" filter cartridges.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter:

- **Leaks from threads:** Ensure sufficient Teflon tape (3-5 wraps) is applied to all threaded connections. Re-tighten connections carefully with the wrench.
- **Leaks from O-ring seal:** Verify that the O-ring is properly seated in its groove and is not pinched or damaged. Apply food-grade silicone lubricant to the O-ring before assembly. Do not overtighten the housing, as this can deform the O-ring or crack the housing.
- **Housing cracking or breaking:** This can be caused by excessive water pressure or water hammer. Ensure your water pressure is within the recommended 10-50 psi range. Consider installing a water hammer arrestor to protect the system from sudden pressure spikes.
- **Difficulty sealing:** If the housing consistently leaks despite proper O-ring lubrication and Teflon tape, inspect the housing and cap for any manufacturing defects or cracks, especially around the threads or O-ring seating area.

## 8. SPECIFICATIONS

<b>Feature</b>	<b>Specification</b>
Model Number	RO5-FH10S
Material	Polypropylene (PP)
Product Dimensions (D x W x H)	4.7"D x 4.7"W x 11.6"H
Item Weight	2 Pounds
Inlet/Outlet Port Size	1/4" Female BSP Thread
Compatible Filter Cartridge Size	2.5" x 10"
Work Temperature	40-120°F (5-50°C)
Work Pressure	10-50 psi
External Testing Certification	WQA
UPC	610895385382