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Geekpure 3 STAGE

Geekpure 3-Stage Portable Reverse Osmosis Water Filter System (100 GPD)

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Geekpure 3-Stage Portable Reverse Osmosis (RO) Water Filter System. This system is designed to produce high-purity water, suitable for aquariums, residential drinking water, and other applications requiring low Total Dissolved Solids (TDS) water. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your system.

2. PRODUCT OVERVIEW

The Geekpure 3-Stage Portable RO System utilizes a multi-stage filtration process to effectively reduce various contaminants from your water supply. It is a compact, tankless system with a capacity of 100 Gallons Per Day (GPD).





Figure 2.1: Overview of the Geekpure 3-Stage Portable RO Water Filter System.

2.1 Filtration Stages

The system employs three distinct filtration stages:

1. **Stage 1: PP Sediment Filter** (Life time: 6-12 months)
This filter removes larger particles such as silt, sand, dirt, and sediment, protecting subsequent filters.
2. **Stage 2: Thin-Film Composite (TFC) RO Membrane** (Life time: 15-24 months)
The core of the system, this membrane reduces total dissolved minerals, heavy metals (Arsenic, Lead, Mercury), fluoride, and other microscopic contaminants down to 0.0001 micron.
3. **Stage 3: Post Carbon Filter** (Life time: 6-12 months)
This final stage improves water taste and odor by further reducing chlorine and other organic compounds.



PP Sediment Filter

Life time: 6~12 months

Reduce silt,sand,dirt,sediment.



RO Membrane

Life time: 15~24 months

RO Membrane reduce total dissolved minerals.



Post Carbon Filter

Life time: 6~12 months

Improve water for refined taste.

Note:

The Life Time of the Filter Cartridge Depends on Usage Amount and Feed Water Quality.

Figure 2.2: Detailed view of the three filtration stages and their estimated lifespans.

2.2 Included Accessories

The system comes with various accessories to facilitate installation:

- Push-fit isolation valves
- Drain Saddle
- Diverter valve piercing kit
- Color-coded tubing (white for inlet, red for drain, blue for permeate)
- Housing wrench
- Fixing clips

Included Accessories

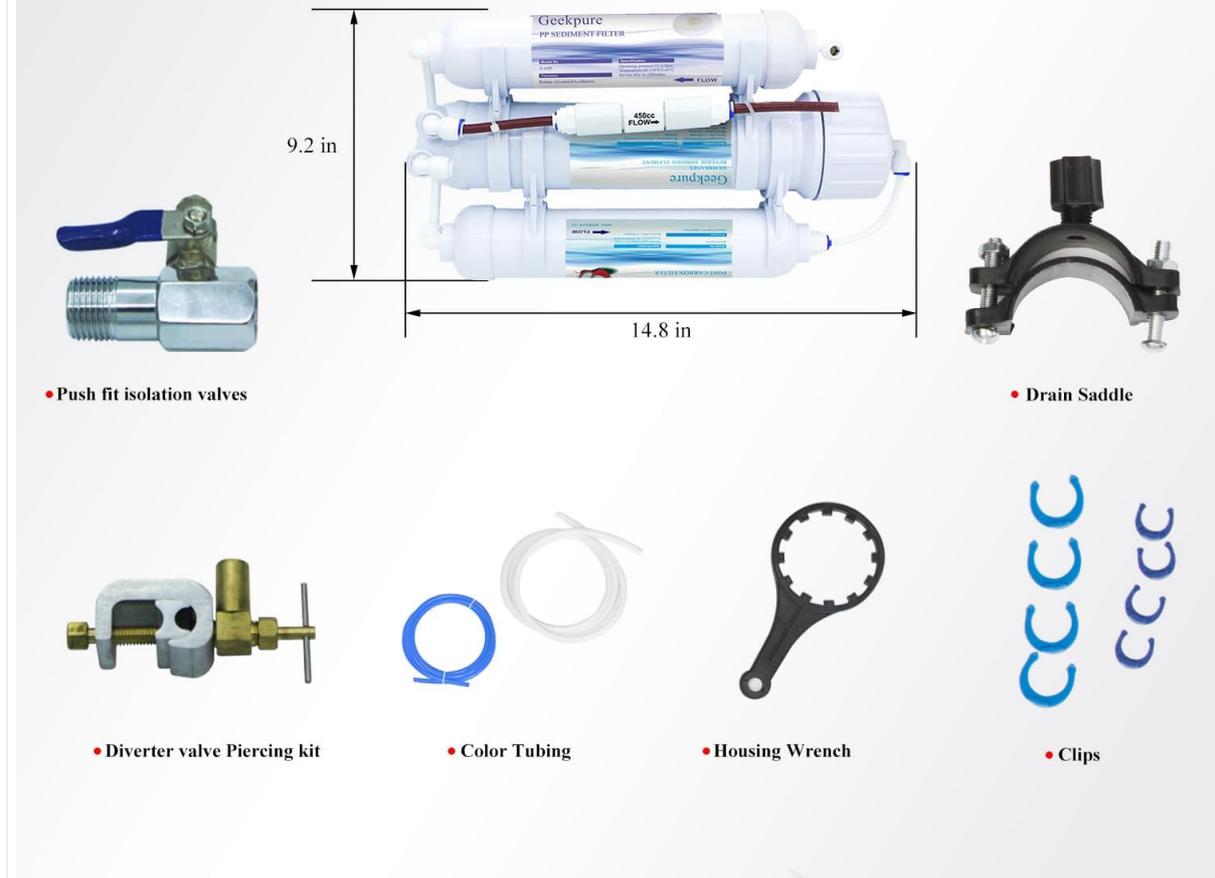


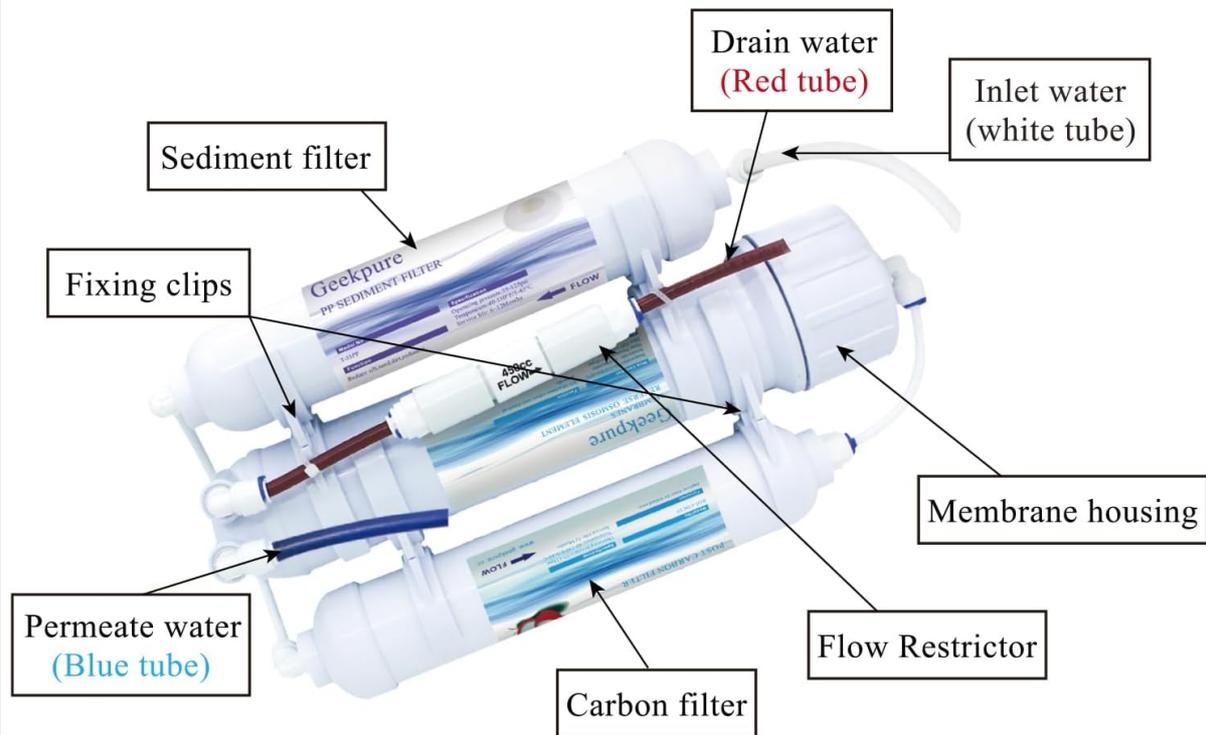
Figure 2.3: Components included with your RO system.

3. SETUP INSTRUCTIONS

Follow these steps for initial setup of your RO system. The system features quick push fittings for easy assembly.

3.1 System Diagram

Diagram



*The tube of the system is 1/4 " OD

Figure 3.1: System diagram illustrating component layout and tubing connections.

3.2 Membrane Installation

1. Unscrew the cap of the RO membrane housing (the central, larger housing).
2. Carefully insert the RO membrane into the housing. Ensure the end with the two O-rings goes in first.
3. Screw the cap back on tightly by hand, then use the provided housing wrench for a final snug turn. Do not overtighten.

3.3 Water Connections

Identify the color-coded tubing:

- **White Tube:** Inlet water (connects to your water supply).
- **Red Tube:** Drain water (connects to a drain).
- **Blue Tube:** Permeate water (pure water output).

Connect the white inlet tube to your cold water supply using the appropriate adapter (e.g., diverter valve piercing kit for under-sink connection, or a garden hose adapter if connecting to a hose bibb, which may need to be purchased separately). Connect the red drain tube to a drain line using the drain saddle. Position the blue permeate tube to collect the purified water in a suitable container.

3.4 Initial System Flush

Before consuming water or using it for sensitive applications, the system must be flushed:

1. Turn on the water supply to the RO system.

2. Allow water to flow through the system and out the permeate (blue) and drain (red) lines for at least **30 minutes**. This flushes out any manufacturing residues and air from the filters.
3. After flushing, the system is ready for use.

4. OPERATING INSTRUCTIONS

The Geekpure 3-Stage Portable RO System operates continuously when connected to a water supply. It does not feature automatic on/off functionality or a storage tank.

- **Water Production:** The system produces up to 100 gallons of purified water per 24 hours, depending on water pressure and temperature.
- **Waste Water Ratio:** The typical ratio of pure water to waste water is approximately 1:2. This means for every gallon of pure water produced, about two gallons are sent to the drain.
- **Usage:** This system is ideal for producing purified water for aquariums, hydroponics, and general residential use where a tankless, portable solution is preferred. For continuous drinking water supply with a faucet and tank, consider a dedicated under-sink RO system.

Reminder



Notes: 3 STAGE Reverse Osmosis RO Water Filter System is mainly used for Aquarium.

There is no tank, faucet or high/low pressure switches, the system can not turn on and off automatically.

If you need for drinking water filter system in kitchen, please choose another Geekpure item (Asin B0787ML9YC) But the working principle of both two RO systems is same.

Figure 4.1: The 3-Stage Portable RO System in an aquarium setting.

5. MAINTENANCE

Regular filter replacement is crucial for maintaining the performance and water quality of your RO system. Filter lifespans are estimates and may vary based on feed water quality and usage volume.

5.1 Filter Replacement Schedule

- **PP Sediment Filter:** Replace every 6-12 months.
- **Post Carbon Filter:** Replace every 6-12 months.
- **RO Membrane:** Replace every 15-24 months.

Replacement filter sets are available. For standard replacement filters, search ASIN [B07KHWKVC](#) on Amazon. An upgrade DI filter is available under ASIN [B09NPRN4KJ](#).

5.2 Replacement Procedure

1. Turn off the water supply to the RO system.
2. Disconnect the tubing from the filter housing you intend to replace.
3. Use the provided housing wrench to unscrew the filter housing.
4. Remove the old filter and dispose of it properly.
5. Insert the new filter, ensuring it is correctly seated.
6. Screw the housing back on, tightening by hand, then with the wrench. Do not overtighten.
7. Reconnect the tubing.
8. After replacing any filter, perform a system flush as described in Section 3.4.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your RO system.

- **Low Water Production:** Check water pressure. Ensure the RO membrane is correctly installed and not clogged. Replace filters if they are past their recommended lifespan.
- **Poor Water Quality (High TDS):** This typically indicates a compromised RO membrane. Replace the RO membrane. Ensure all connections are secure and there are no bypasses.
- **Leaks:** Check all quick-connect fittings and threaded connections. Ensure O-rings are properly seated and not damaged. Tighten connections by hand, then with the wrench if necessary, but do not overtighten.
- **Unpleasant Taste/Odor:** Replace the Post Carbon Filter. Ensure initial flushing was performed adequately.

If issues persist after following these steps, please contact customer support.

7. SPECIFICATIONS

Feature	Specification
Model Number	3 STAGE
Product Dimensions	9.2"D x 14.8"W x 5.8"H
Item Weight	4 Pounds
Material	Polyamide, polysulfone, polypropylene, carbon, non-woven fabric
Capacity	100 Gallons Per Day (GPD)
External Testing Certification	NSF

7.1 Operating Limits

NORMAL CONDITIONS

- Concentration - 250ppm NaCl
- Pressure - 60psig
- Temperature - 77°F (25°C)
- Recovery - 15%
- pH Range - 6.5 ~ 7.0

OPERATING LIMITS

- Max. Operating Pressure - 125psi (0.86MPa)
- Max. Feed Flow Rate - 2gpm (0.45m³/hr)
- Max. Operating Temperature - 113°F(45°C)
- pH - 3.0 ~ 10.0
- Chlorine Concentration - <0.1 ppm



Figure 7.1: Nominal conditions and operating limits for the system.

- **Max. Operating Pressure:** 125 psi (0.86 MPa)
- **Max. Feed Flow Rate:** 2 gpm (0.45 m³/hr)
- **Max. Operating Temperature:** 113°F (45°C)
- **pH Range:** 3.0 – 10.0
- **Chlorine Concentration:** <0.1 ppm

8. WARRANTY AND SUPPORT

Your Geekpure 3-Stage Portable RO Water Filter System comes with a **1-year manufacturer warranty**. No registration is required for this warranty.

For technical assistance, troubleshooting, or warranty claims, please contact Geekpure customer support through the retailer where the product was purchased or visit the official Geekpure website for contact information.

<p>RO Filters Replacement and Maintenance Manual</p> <p>Geekpure</p>  <p><small>FILTER CARTRIDGE CONNECTIONS MUST BE SUBJECT TO CHANGE</small></p>	<p>Geekpure RO Filters Replacement and Maintenance Manual</p> <p>Comprehensive guide for replacing and maintaining Geekpure Reverse Osmosis water filters, including filter stages, schedules, installation, troubleshooting, and warranty information.</p>
<p>Aquarium Reverse Osmosis Water Filtration System Installation and Maintenance Manual</p> <p>Geekpure</p>  <p><small>FILTER CARTRIDGE CONNECTIONS MUST BE SUBJECT TO CHANGE</small></p> <p><small>INSTALLATION: PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND CHECK THE SYSTEM. IT IS RECOMMENDED TO WAIT UNTIL THE ENTIRE SYSTEM IS PRESSURIZED (CHECKING FOR LEAKS, BUBBLES, AND FACTORY) AND CHECK FOR ANY LEAKS BEFORE LEAVING THE SYSTEM. IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR AT THE WATER TAP. DURING THE FIRST 2 GALLONS OF WATER THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE EMPTIED AND NOT DRINK.</small></p>	<p>Geekpure Aquarium RO System: Installation and Maintenance Manual</p> <p>Detailed guide for installing and maintaining the Geekpure Aquarium Countertop Reverse Osmosis Water Filtration System. Covers setup, filter changes, troubleshooting, and system specifications for optimal aquarium water quality.</p>
<p>Reverse Osmosis Water Filtration System Installation and Maintenance Manual</p> <p>Geekpure</p>  <p><small>FILTER CARTRIDGE CONNECTIONS MUST BE SUBJECT TO CHANGE</small></p> <p><small>INSTALLATION: PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND CHECK THE SYSTEM. IT IS RECOMMENDED TO WAIT UNTIL THE ENTIRE SYSTEM IS PRESSURIZED (CHECKING FOR LEAKS, BUBBLES, AND FACTORY) AND CHECK FOR ANY LEAKS BEFORE LEAVING THE SYSTEM. IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR AT THE WATER TAP. DURING THE FIRST 2 GALLONS OF WATER THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE EMPTIED AND NOT DRINK.</small></p>	<p>Geekpure RO5 Series Reverse Osmosis Water Filtration System Installation and Maintenance Manual</p> <p>Comprehensive installation and maintenance guide for the Geekpure RO5 Series Reverse Osmosis Water Filtration System, covering setup, operation, troubleshooting, and filter replacement.</p>
<p>Whole House Water Filtration System Installation and Maintenance Manual</p> <p>Geekpure</p>  <p><small>PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND CHECK THE SYSTEM. IT IS RECOMMENDED TO WAIT UNTIL THE ENTIRE SYSTEM IS PRESSURIZED (CHECKING FOR LEAKS, BUBBLES, AND FACTORY) AND CHECK FOR ANY LEAKS BEFORE LEAVING THE SYSTEM. IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR AT THE WATER TAP. DURING THE FIRST 2 GALLONS OF WATER THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE EMPTIED AND NOT DRINK.</small></p>	<p>Geekpure Whole House Water Filtration System: Installation and Maintenance Manual</p> <p>Comprehensive guide for installing, operating, and maintaining Geekpure whole house water filtration systems. Covers specifications, components, troubleshooting, and filter replacement.</p>
<p>Whole House Water Filter Housing Installation and Maintenance Manual</p> <p>Geekpure</p>  <p><small>PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND CHECK THE SYSTEM. IT IS RECOMMENDED TO WAIT UNTIL THE ENTIRE SYSTEM IS PRESSURIZED (CHECKING FOR LEAKS, BUBBLES, AND FACTORY) AND CHECK FOR ANY LEAKS BEFORE LEAVING THE SYSTEM. IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR AT THE WATER TAP. DURING THE FIRST 2 GALLONS OF WATER THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE EMPTIED AND NOT DRINK.</small></p>	<p>Geekpure Whole House Water Filter Housing: Installation and Maintenance Guide</p> <p>Comprehensive guide for installing and maintaining your Geekpure Whole House Water Filter Housing, covering operating conditions, tools, parts, installation steps, filter changes, troubleshooting, and warranty information.</p>

SF-03 Shower Filter
Instruction Manual



Thanks for your choosing Geekpure Product.

[SF-03 Shower Filter Instruction Manual - Geekpure](#)

Instruction manual for the Geekpure SF-03 Shower Filter, detailing installation, filter replacement steps, technical specifications, troubleshooting, and frequently asked questions for improving water quality. Learn how to install and maintain your shower filter for healthier skin and hair.