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## Geekpure RO-100G-4

# Geekpure 4 Stage Portable Aquarium Reverse Osmosis RO Drinking Water Filtration System

Model: RO-100G-4 | Brand: Geekpure

## INTRODUCTION

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The Geekpure 4 Stage Portable Aquarium Reverse Osmosis (RO) Drinking Water Filtration System is engineered to deliver exceptionally pure water, suitable for sensitive applications like aquariums or for personal consumption. This system effectively reduces a wide range of contaminants, ensuring water quality with a Total Dissolved Solids (TDS) level close to 0 ppm.



Image: The complete Geekpure 4 Stage Portable RO System, showcasing its compact design and multiple filter cartridges.

## PRODUCT OVERVIEW

This advanced filtration system offers efficient and high-quality water purification. Key features include:

- **4 Stage Reverse Osmosis Filtration:** Filter precision down to 0.0001 micron, reducing arsenic, lead, fluoride, mercury, cadmium, and more.
- **4th Stage Deionization Filter:** Mixed bed DI filter further reduces TDS from membrane filtered water, achieving values near 0 ppm.
- **SMART SIZE:** System capacity of 100 gallons per day (GPD) at 60 psi, approximately 260 ml per minute. RO tube size: 1/4 inches.
- **Efficient Water Ratio:** The ratio of pure water to wastewater is 1:2.
- **NSF Certified RO Membrane:** Ensures healthy and pure water.
- **Quick Connections:** Designed for easy removal and replacement of filter cartridges.
- **Easy DIY Installation:** Comes with high-quality quick connect fittings, color-coded tubes, and a comprehensive installation manual.

- **Versatile Use:** Perfect for apartments, RVs, business travel, vacations, yachts, boats, mobile homes, or any location requiring pure water.

• **100GPD RO MEMBRANE**

• **EFFICIENT FILTRATION**

• **HIGH QUALITY**

• **REMOVAL RATE 96%MIN**

• **EASY&CONVENIENT**

**Aquarium-Countertop Reverse Osmosis System**

Image: Visual representation of the system's key benefits, including 100GPD RO membrane, efficient filtration, high quality, 96% minimum removal rate, and ease of use.

## COMPONENTS AND FILTRATION STAGES

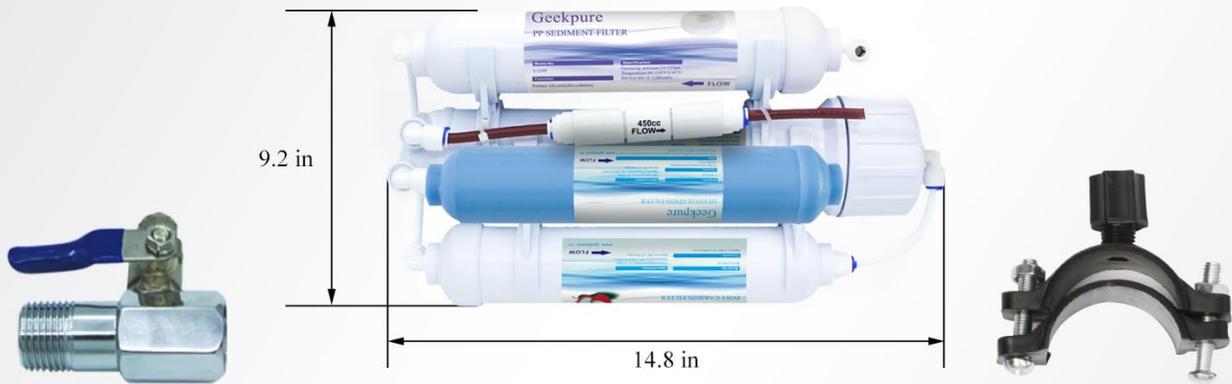
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### Included Accessories

The system comes complete with all necessary accessories for installation:

- 4 x Filters
- Diverter Valve
- Wrench
- Fittings
- Water Pipe
- Clips

# Included Accessories



• Push fit isolation valves

• Drain Saddle



• Diverter valve Piercing kit



• Color Tubing



• Housing Wrench



• Clips

Image: A visual guide to the accessories included with your Geekpure RO system, such as push-fit isolation valves, drain saddle, diverter valve piercing kit, color tubing, housing wrench, and clips.

## Filtration Stages

The Geekpure system utilizes four distinct stages of filtration to achieve optimal water purity:

1. **1st Stage: PP Spun Filter** - Reduces silt, sand, dirt, and sediment.
2. **2nd Stage: Carbon Filter** - Reduces chlorine, odors, and taste.
3. **3rd Stage: TFC RO Membrane** - Reduces total dissolved minerals.
4. **4th Stage: Deionization Filter** - Reduces total dissolved minerals after RO water, bringing TDS close to 0 ppm.

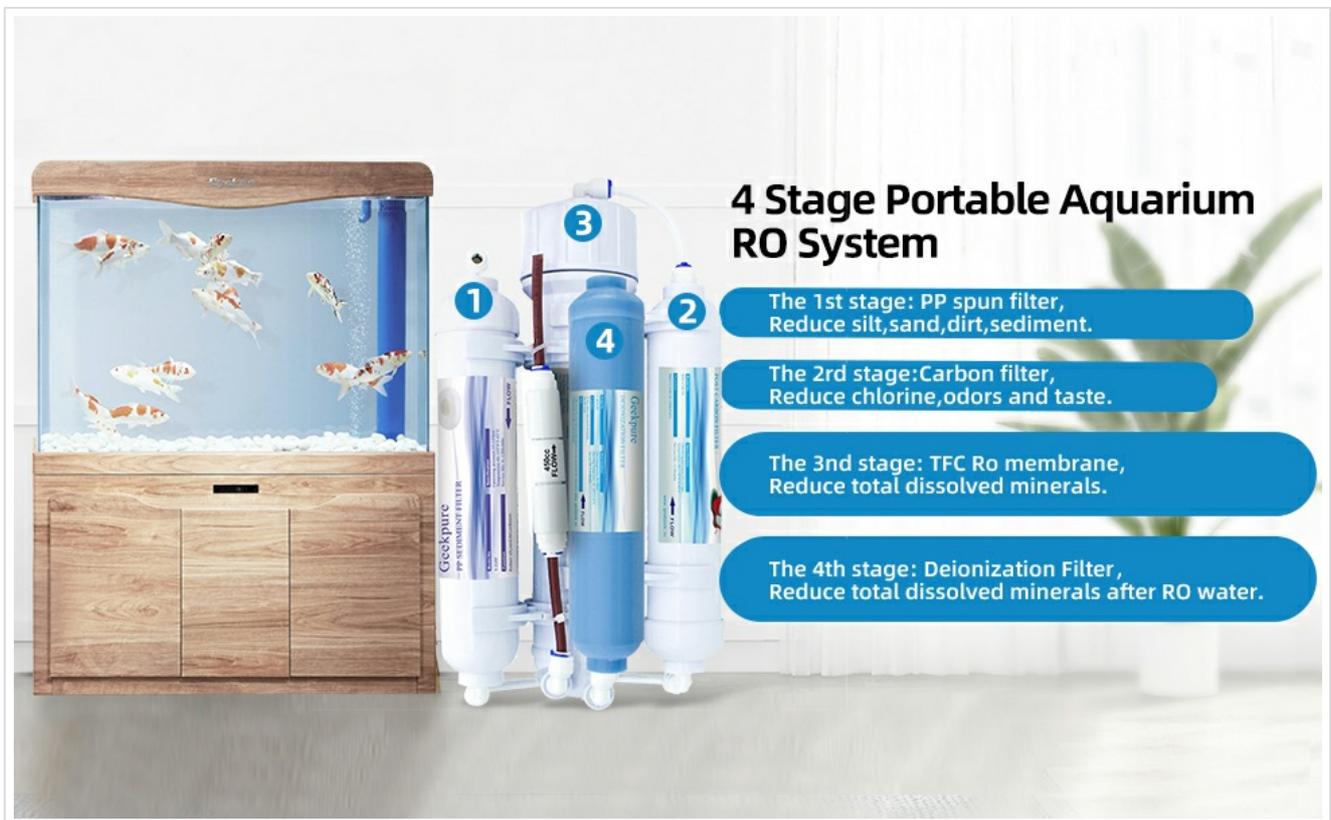


Image: A diagram illustrating the four stages of filtration within the portable RO system, showing the flow of water through each filter.

## SETUP AND INSTALLATION

The Geekpure RO system is designed for easy and self-installation, requiring no professional assistance. The quick connect fittings and color-coded tubes simplify the process. Follow the clear, well-organized instructions provided in the manual to understand and install your system within a couple of hours.

For under-sink installation, you may need to acquire specific compression fittings or adapters depending on your existing plumbing. Ensure all connections are secure to prevent leaks.

## OPERATING CONDITIONS

To ensure optimal performance and longevity of your Geekpure RO system, adhere to the following operating parameters:

### Nominal Conditions

- Concentration: 250ppm NaCl
- Pressure: 60psi
- 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 (0.45m<sup>3</sup>/hr)
- Max. Operating Temperature: 113°F (45°C)
- pH: 3.0~10.0

- Chlorine Concentration: <0.1ppm

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- Chlorine Concentration - <0.1ppm



Image: A graphic detailing the nominal operating conditions and maximum operating limits for the Geekpure RO water filtration system.

## MAINTENANCE

Regular maintenance, particularly filter replacement, is crucial for the continued high performance of your RO system. The lifespan of filter cartridges depends on usage amount and feed water quality.

### Filter Replacement Schedule

- **PP Sediment Filter:** Life time: 6–12 months
- **RO Membrane:** Life time: 15–24 months
- **Post Carbon Filter:** Life time: 6–12 months
- **Deionization Filter:** Life time: 6–12 months

Replacement filter sets are available. Refer to ASINs: B07KHWKVCS and B09NPRN4KJ on Amazon for compatible

filters.



The infographic is divided into four horizontal sections, each with a light blue background. Each section features an image of a specific filter cartridge on the left and its details on the right. The sections are: 1. PP Sediment Filter: A white and purple cartridge. 2. RO Membrane: A blue and white cartridge with an NSF logo. 3. Post Carbon Filter: A white and blue cartridge with carbon granules scattered around it. 4. Deionization Filter: A blue and white cartridge.

Filter Type	Life Time	Function
PP Sediment Filter	6~12 months	Reduce silt, sand, dirt, sediment.
RO Membrane	15~24 months	RO Membrane reduce total dissolved minerals.
Post Carbon Filter	6~12 months	Improve water for refined taste.
Deionization Filter	6~12 months	DI filter reduce total dissolved minerals after RO water.

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

Image: An illustration showing the different filter types (PP Sediment, RO Membrane, Post Carbon, Deionization) and their recommended replacement intervals.

## TROUBLESHOOTING

While the Geekpure RO system is designed for reliable operation, some common issues may arise:

- **Slow Flow Rate:** If the water flow from the purified water faucet is significantly slow, it may indicate low incoming water pressure or clogged filters. Ensure your water pressure meets the minimum operating requirements. Consider replacing filters if they are past their recommended lifespan.
- **High TDS Readings:** If your purified water still shows high TDS levels, it could be due to an exhausted RO membrane or DI resin. Replace the appropriate filter cartridges.
- **Leaks:** Check all quick connect fittings and threaded connections. Ensure tubing is fully inserted into quick connect fittings. If a leak persists, inspect O-rings and seals.
- **Continuous Drain Water Flow:** A constant flow of water to the drain even when the purified water faucet is off might indicate a faulty automatic shut-off valve or a clogged flow restrictor.

For persistent issues, consult the detailed user manual or contact Geekpure customer support.

## SPECIFICATIONS

Detailed technical specifications for the Geekpure RO-100G-4 system:

Feature	Value
Product Dimensions	14.8"L x 5"W x 9.2"H
Item Weight	2.9 Pounds
Item Model Number	RO-100G-4
Manufacturer	Geekpure
Date First Available	May 27, 2020
Special Feature	Total 4 pieces filters is included
Installation Type	Surface-Mounted, Easy and self installation
Power Source	Manual (Water Pressure)
Lower Temperature Rating	40 Degrees Fahrenheit
Maximum Flow Rate	260 Milliliters Per Minute

## WARRANTY AND SUPPORT

Geekpure offers various protection plans for your product, including 3-Year and 4-Year Protection Plans, as well as a Complete Protect plan. These plans provide extended coverage beyond the standard product warranty. For detailed warranty information, product support, or to purchase protection plans, please refer to the product listing on Amazon or visit the official Geekpure website. You can also find the official User Manual in PDF format for further reference: [Geekpure User Manual \(PDF\)](#).

### Related Documents - RO-100G-4

	<p><a href="#">Geekpure RO Filters Replacement and Maintenance Manual</a></p> <p>Comprehensive guide for replacing and maintaining Geekpure Reverse Osmosis water filters, including filter stages, schedules, installation, troubleshooting, and warranty information.</p>
	<p><a href="#">Geekpure Aquarium RO System: Installation and Maintenance Manual</a></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><b>Reverse Osmosis Water Filtration System</b> Installation and Maintenance Manual</p> <p><b>Geekpure</b></p>  <p><small>INSTALLATION INSTRUCTIONS</small></p> <p><small>INSTALLERS, PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND USING THIS SYSTEM.</small></p> <p><small>IT IS RECOMMENDED THAT YOU CONTACT THE SYSTEM MANUFACTURER FOR TECHNICAL SUPPORT, TANK &amp; FILTERS AND BE SURE TO USE ONLY GENUINE GEOPURE LEADING INSTALLATION KIT.</small></p> <p><small>IT IS NORMAL FOR SOME BLACK CARBON FIBERS TO APPEAR IN THE WATER WHEN DROPPING THE FIRST 2 GALLONS OF WATER. THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE DISCARDED AND NOT USED.</small></p>	<p><a href="#">Geekpure RO5 Series Reverse Osmosis Water Filtration System Installation and Maintenance Manual</a></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><b>Whole House Water Filtration System</b> Installation and Maintenance Manual</p> <p><b>Geekpure</b></p>  <p><small>INSTALLATION INSTRUCTIONS</small></p> <p><small>PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND USING THIS SYSTEM.</small></p> <p><small>IT IS RECOMMENDED THAT YOU CONTACT THE SYSTEM MANUFACTURER FOR TECHNICAL SUPPORT, TANK &amp; FILTERS AND BE SURE TO USE ONLY GENUINE GEOPURE LEADING INSTALLATION KIT.</small></p> <p><small>IT IS NORMAL FOR SOME BLACK CARBON FIBERS TO APPEAR IN THE WATER WHEN DROPPING THE FIRST 2 GALLONS OF WATER. THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE DISCARDED AND NOT USED.</small></p>	<p><a href="#">Geekpure Whole House Water Filtration System: Installation and Maintenance Manual</a></p> <p>Comprehensive guide for installing, operating, and maintaining Geekpure whole house water filtration systems. Covers specifications, components, troubleshooting, and filter replacement.</p>
<p><b>SF-03 Shower Filter</b> Instruction Manual</p>  <p><small>Thank you for your choice of Geekpure Product.</small></p>	<p><a href="#">SF-03 Shower Filter Instruction Manual - Geekpure</a></p> <p>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.</p>
<p><b>Whole House Water Filter Housing</b> Installation and Maintenance Manual</p> <p><b>Geekpure</b></p>  <p><small>INSTALLATION INSTRUCTIONS</small></p> <p><small>PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND USING THIS SYSTEM.</small></p> <p><small>IT IS RECOMMENDED THAT YOU CONTACT THE SYSTEM MANUFACTURER FOR TECHNICAL SUPPORT, TANK &amp; FILTERS AND BE SURE TO USE ONLY GENUINE GEOPURE LEADING INSTALLATION KIT.</small></p> <p><small>IT IS NORMAL FOR SOME BLACK CARBON FIBERS TO APPEAR IN THE WATER WHEN DROPPING THE FIRST 2 GALLONS OF WATER. THE FIRST 2 GALLONS OF WATER PRODUCED SHOULD BE DISCARDED AND NOT USED.</small></p>	<p><a href="#">Geekpure Whole House Water Filter Housing: Installation and Maintenance Guide</a></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>