

## Geekpure RO6-UV

# Geekpure 6-Stage Reverse Osmosis RO Drinking Water Filter System with UV Filter-75GPD User Manual

Model: RO6-UV

## INTRODUCTION

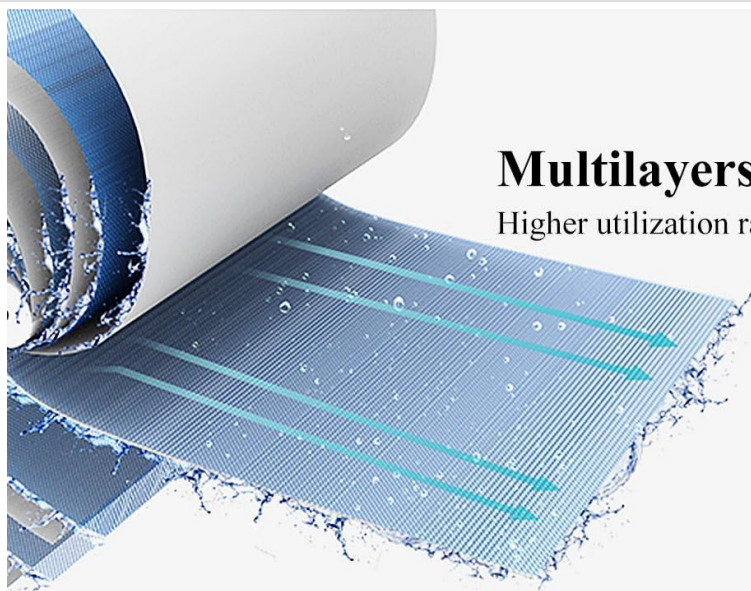
This manual provides detailed instructions for the installation, operation, and maintenance of your Geekpure 6-Stage Reverse Osmosis (RO) Drinking Water Filter System with UV Filter. This system is designed to reduce various contaminants from your drinking water, including arsenic, chlorine, lead, fluoride, mercury, cadmium, and heavy metals, filtering down to 0.0001 micron. The integrated UV filter provides an additional layer of purification without chemical additives.

For optimal performance and longevity of your system, please read these instructions carefully before proceeding with installation or use.

## SYSTEM COMPONENTS

Your Geekpure RO system includes the following components:

- Main System Bracket with Filter Housings
- 6 Filters (PP Sediment, Granular Carbon, Carbon Block, RO Membrane, Post Carbon, UV Filter)
- Dispensing Faucet
- 2.8 Gallon Storage Tank
- Tank Ball Valve
- Feed Water Diverter Valve
- Drain Saddle
- Housing Wrench (2)
- Color-Coded Tubing (BPA-free)
- Quick Connect Fittings
- Clips
- Electronic Ballast for UV Filter

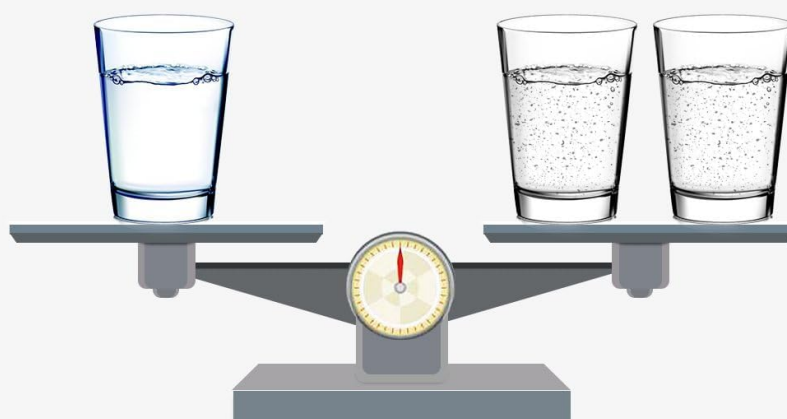


## Multilayers rolling membrane

Higher utilization ratio of water

## Wastewater ratio: 1:2

2 gallons wastewater will be produced for every gallon pure water



A comprehensive visual guide to all parts included with the system, such as the main unit, tank, faucet, various fittings, and tubing.

## SETUP AND INSTALLATION

The Geekpure RO system is designed for under-sink installation. The system comes with high-quality quick connect fittings and color-coded tubing to simplify the installation process. While professional installation is not required, careful attention to detail is crucial to prevent leaks.

### Pre-Installation Checks:

- Ensure all components are present and undamaged.
- Verify feed water conditions: Pressure 40-100 PSI, Temperature 40-110°F (5-45°C), pH 3.0-11.0, Max TDS 2000 PPM.
- The storage tank is pre-pressurized between 5-7 PSI.

### Installation Steps (General Overview):

1. **Mount the Main Unit:** Secure the main filter unit under your sink in a suitable location.
2. **Install Faucet:** Drill a hole (if necessary) and install the dispensing faucet on your countertop or sink.

3. **Connect Feed Water:** Use the feed water diverter valve to connect the system to your cold water supply.
4. **Install Drain Saddle:** Attach the drain saddle to the drain pipe to dispose of wastewater.
5. **Connect Tubing:** Follow the color-coded tubing guide to connect all filters, the storage tank, faucet, and drain saddle. Ensure tubing is pushed all the way into quick connect fittings and secured with clips.
6. **UV Filter Connection:** Connect the UV filter and its electronic ballast according to the specific instructions provided for the UV unit.
7. **Leak Check:** After completing all connections, slowly turn on the water supply. Carefully check all connections for leaks. It is recommended to wait until the entire system is pressurized (including the storage tank and faucet) and re-check for any leaks before leaving the installation site.
8. **Initial Flush:** The first two tanks of water produced should be emptied and not used. It is normal for some black carbon fines to appear in the water during this initial flushing period.



An example of the Geekpure RO system neatly installed within a standard under-sink cabinet, showing the main unit, storage tank, and connections.

## OPERATING INSTRUCTIONS

Once installed and flushed, your Geekpure RO system will continuously produce purified water. The system

has a capacity of 75 gallons per day at 60 PSI.

## Water Production:

The system operates automatically. As water is drawn from the faucet, the storage tank pressure drops, and the system begins to produce more purified water to refill the tank. The UV filter operates continuously, 24/7, ensuring consistent water purity.

## Wastewater Ratio:

Reverse osmosis is a purification process that produces a small amount of wastewater. For this system, approximately two gallons of wastewater will be produced for every gallon of pure water. This is a normal and necessary part of the RO filtration process.



A visual representation of the wastewater ratio, indicating that approximately two gallons of wastewater are produced for every gallon of pure water.

## Water Quality:

The system significantly reduces Total Dissolved Solids (TDS). You can use a TDS meter to monitor the water quality. Ideal drinking water from RO typically has very low TDS levels.

# TDS in parts per million (PPM)

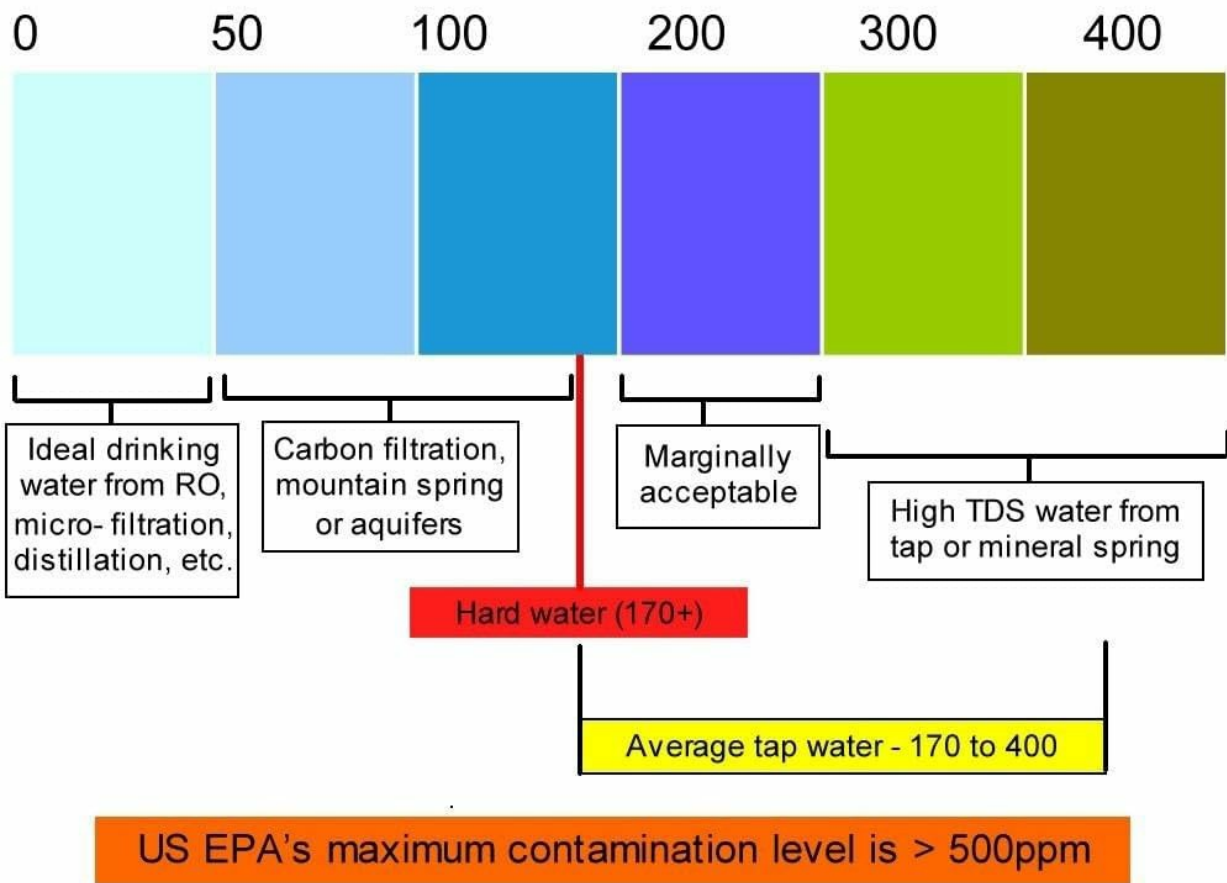


Chart values represent national U.S. averages. Actual TDS levels for geographic regions within the US and other countries may vary

A chart illustrating different levels of Total Dissolved Solids (TDS) in water, ranging from ideal drinking water to high TDS tap water, with EPA maximum contamination levels.

## MAINTENANCE

Regular maintenance, primarily filter replacement, is essential to ensure the continued high performance and longevity of your Geekpure RO system.

### Filter Replacement Schedule:

The following table outlines the recommended replacement intervals for each filter stage:

Stage	Filter Type	Recommended Lifespan	Function
1st Stage	PP Sediment Filter	6-12 months	Reduces silt, sand, dirt, sediment.
2nd Stage	Granular Carbon Filter	6-12 months	Reduces chlorine, odors, and taste.
3rd Stage	Carbon Block Filter	6-12 months	Reduces chlorine, odors, and taste.

Stage	Filter Type	Recommended Lifespan	Function
4th Stage	RO Membrane	15-20 months	Reduces total dissolved minerals.
5th Stage	Post Carbon Filter	12-15 months	Improves water for refined taste.
6th Stage	UV Filter	9000 hours minimum	Provides ultraviolet sterilization.



**1st stage**

### PP Sediment Filter

**Life time: 6~12 months**

Reduce silt,sand,dirt,sediment.



**2nd stage**

### Granular Carbon Filter

**Life time: 6~12 months**

Reduce chlorine,odors and taste.



**3rd stage**

### Carbon Block Filter

**Life time: 6~12 months**

Reduce chlorine,odors and taste.



**4th stage**

### RO Membrane

**Life time: 15~20 months**

RO Membrane reduce total dissolved minerals.



**5th stage**

### Post Carbon Filter

**Life time: 12~15 months**

Improve water for refined taste.



**6th stage**

### UV Filter

**Life time: 9000 hours**

6 Watt,No Secondary Pollution.No chemical added to the water supply.  
No change in taste, odor, pH or conductivity nor the general chemistry of the water

An illustration detailing each of the six filtration stages, including PP Sediment, Granular Carbon, Carbon Block, RO Membrane, Post Carbon, and UV Filter, along with their recommended replacement intervals.

## Filter Replacement Procedure:

1. Turn off the water supply to the RO system.
2. Close the tank ball valve.
3. Open the RO faucet to relieve pressure.
4. Use the provided housing wrench to unscrew the filter housings.
5. Remove old filters and dispose of them properly.
6. Insert new filters, ensuring proper orientation.
7. Screw the filter housings back on, hand-tighten, then use the wrench for a quarter turn. Do not

- overtighten.
- For the UV filter, carefully replace the UV lamp and quartz sleeve as per the specific UV unit instructions.
  - Slowly turn on the water supply and open the tank ball valve.
  - Check for leaks and perform an initial flush as described in the Setup section.

## TROUBLESHOOTING

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

### No Water Flow or Slow Flow:

- Check Water Supply:** Ensure the main water supply and the feed water diverter valve are fully open.
- Tank Valve:** Verify the tank ball valve is open.
- Clogged Filters:** Filters, especially the sediment filter and RO membrane, can become clogged over time. Replace filters according to the recommended schedule.
- Low Water Pressure:** Ensure your household water pressure is within the operating range (40-100 PSI).

### Leaks:

- Loose Connections:** Check all quick connect fittings. Ensure tubing is fully inserted and secured with clips.
- O-Rings:** Inspect O-rings in filter housings for proper seating and damage. Apply food-grade silicone grease if necessary.
- Teflon Tape:** For threaded connections, ensure sufficient Teflon tape was used during installation.
- UV Chamber:** If leaks occur around the UV chamber, ensure the silicone sleeve and O-rings are correctly positioned and sealed.

### Poor Water Taste or Odor:

- Carbon Filters:** Granular and Post Carbon filters remove taste and odor. Replace them if taste or odor issues persist.
- RO Membrane:** A failing RO membrane can lead to poor water quality. Test TDS levels; if high, replace the membrane.
- Initial Flush:** Ensure the initial two tanks of water were fully drained after installation.

### UV Light Not Working:

- Power Supply:** Check if the electronic ballast is plugged in and receiving power.
- UV Lamp:** The UV lamp has a limited lifespan (9000 hours). Replace it if it has expired or is visibly damaged.
- Ballast Failure:** If the lamp is new and power is supplied, the electronic ballast may need replacement.

## SPECIFICATIONS



Specification	Value
Model Name	RO6-UV





Specification	Value
System Capacity	75 Gallons Per Day (GPD) @ 60 PSI
Storage Tank Capacity	2.8 Gallons
Product Dimensions	14.2"L x 9.5"W x 18.1"H
Item Weight	25 Pounds
Feed Water Pressure	40 - 100 PSI
Feed Water Temperature	40-110°F / 5-45°C
Feed Water pH	3.0 - 11.0
Max Feed Water TDS	2000 PPM
Installation Type	Under Sink
Power Source	Corded Electric (for UV filter)
Certifications	NSF certified components (Tube, quick push fittings, storage tank, RO membrane)

## WARRANTY AND SUPPORT

The Geekpure 6-Stage Reverse Osmosis RO Drinking Water Filter System comes with a **1-year manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use. For technical assistance, troubleshooting, or warranty claims, please refer to the contact information provided with your product packaging or visit the official Geekpure website. When contacting support, please have your model number (RO6-UV) and purchase date available.

## Related Documents - RO6-UV

 <p>Geekpure Aquarium Reverse Osmosis Water Filtration System Installation and Maintenance Manual</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>Geekpure RO Filters Replacement and Maintenance Manual</p>	<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>Reverse Osmosis Water Filtration System Installation and Maintenance Manual</p> <p>Geekpure</p>  <p>PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING AND USING THIS SYSTEM.</p> <p>IT IS RECOMMENDED TO FLUSH THE ENTIRE SYSTEM TO PREVENT RELEASED (ENCLOSING) STORAGE TANKS &amp; PIPES AND BE CAREFUL FOR ANY LEAKS BEFORE LEAVING INSTALLATION SITE.</p> <p>IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR IN THE WATER WHEN DRIPPING THE FIRST 2 TANKS OF WATER. THE FIRST 2 TANKS OF WATER PRODUCED SHOULD BE DRIPPED AND NOT USED.</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>Whole House Water Filtration System Installation and Maintenance Manual</p> <p>Geekpure</p>  <p>PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING AND USING THIS SYSTEM.</p> <p>IT IS RECOMMENDED TO FLUSH THE ENTIRE SYSTEM TO PREVENT RELEASED (ENCLOSING) STORAGE TANKS &amp; PIPES AND BE CAREFUL FOR ANY LEAKS BEFORE LEAVING INSTALLATION SITE.</p> <p>IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR IN THE WATER WHEN DRIPPING THE FIRST 2 TANKS OF WATER. THE FIRST 2 TANKS OF WATER PRODUCED SHOULD BE DRIPPED AND NOT USED.</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>Whole House Water Filter Housing Installation and Maintenance Manual</p> <p>Geekpure</p>  <p>PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING AND USING THIS SYSTEM.</p> <p>IT IS RECOMMENDED TO FLUSH THE ENTIRE SYSTEM TO PREVENT RELEASED (ENCLOSING) STORAGE TANKS &amp; PIPES AND BE CAREFUL FOR ANY LEAKS BEFORE LEAVING INSTALLATION SITE.</p> <p>IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR IN THE WATER WHEN DRIPPING THE FIRST 2 TANKS OF WATER. THE FIRST 2 TANKS OF WATER PRODUCED SHOULD BE DRIPPED AND NOT USED.</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>
<p>SF-03 Shower Filter Instruction Manual</p> <p>Geekpure</p>  <p>Thanks for your choosing Geekpure Product.</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>