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Geekpure GP-UV25W

Geekpure Whole House UV 6 GPM Water Filter System

Model: GP-UV25W

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1. INTRODUCTION

This instruction manual provides comprehensive guidance for the installation, operation, and maintenance of your Geekpure Whole House UV 6 GPM Water Filter System. This system is designed to provide purified water for your entire home by utilizing ultraviolet light to neutralize harmful microorganisms without adding chemicals or altering water taste, odor, pH, or general chemistry.

Please read this manual thoroughly before installation and operation to ensure proper function and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

WARNING: To reduce the risk of electric shock, do not expose this appliance to rain or moisture.

WARNING: Do not look directly at the UV lamp when it is illuminated. UV light can cause severe eye and skin damage.

- Always disconnect power before performing any maintenance or service on the system.
- Ensure the system is installed by a qualified professional in accordance with local plumbing and electrical codes.
- Do not operate the UV lamp outside of the UV chamber.
- Keep all electrical connections dry and protected from water.
- The system is designed for indoor use only. Protect from freezing temperatures.
- Ensure proper grounding of the electrical supply.

3. WHAT'S IN THE BOX

Your Geekpure Whole House UV Water Filter System package includes the following components:

- Stainless steel 304 UV Chamber

- UV Filter (3 pieces)
- Quartz Sleeve (3 pieces)
- Electronic Ballast with audible and visual alarm (1 piece)
- Fixed Clamps (3 pieces)
- Instruction Manual



Image: Overview of the Geekpure Whole House UV Water Filter System components, including the stainless steel UV chamber, UV lamps, quartz sleeves, and electronic ballast.



Image: Detailed diagram showing the dimensions of the UV reactor chamber (20.4 inches / 51 cm), UV lamp (18 inches / 45 cm), and quartz sleeve (19.92 inches / 49.8 cm), along with labeled components like the stainless steel reactor chamber, quartz sleeve, filter, mounting clips, ballast, aluminum end cap, and silicone stopper.

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Image: The Geekpure UV Water Filter System components laid out next to its packaging box, labeled "Geekpure UV-25F UV Water Filter".

Video: An overview of the Geekpure Whole House UV 25 Watt Water Filter 6 GPM system, showcasing the components included in the box and their initial setup.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Requirements

- **Feed Water Pressure:** 40 - 100 PSI
- **Temperature:** 40-110°F (5-45°C)
- **pH:** 3.0 - 11.0
- **Max TDS:** 300 PPM
- **Residual Chlorine:** <0.1 mg/L
- **Turbidity:** <1.0 NTU
- **Max SDI:** <4.0
- **Hardness:** <5 GPG
- **Iron:** <0.1
- **Manganese:** <0.05

Ensure your water supply meets these specifications for optimal performance and longevity of the system. Pre-filtration (sediment and carbon filters) is highly recommended before the UV system to protect the quartz sleeve and UV lamp from particles and chlorine, which can reduce UV effectiveness.

4.2 Installation Diagram (Recommended)

Installation diagram (recommended) :

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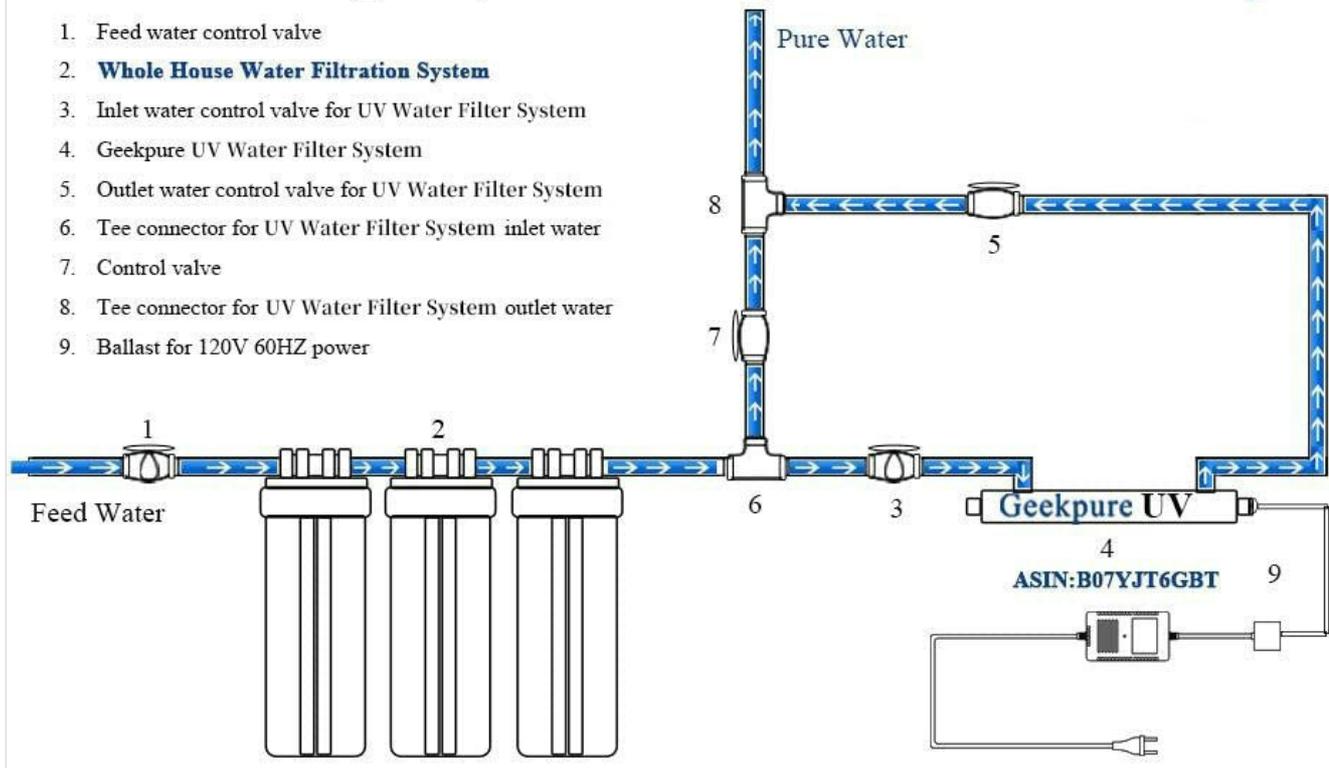


Image: A diagram illustrating the recommended installation sequence for the Geekpure UV Water Filter System. It shows the flow from Feed Water through a Whole House Water Filtration System, then into the Geekpure UV Filter System, and finally to Pure Water outlets. Key components like feed water control valve, inlet/outlet control valves for the UV system, tee connectors, and the ballast connection are depicted.

4.3 Installation Steps

1. **Mount the UV Chamber:** Securely mount the stainless steel UV chamber horizontally or vertically using the provided fixed clamps. Ensure there is enough space for future maintenance, especially for lamp and quartz sleeve replacement.
2. **Connect Plumbing:** The UV chamber has 3/4 inch MNPT inlet/outlet connections. Connect your main water supply to the inlet and your household plumbing to the outlet. It is recommended to install shut-off valves on both sides of the UV system for easier maintenance. Use high-quality plumbing tape (e.g., PTFE tape) on all threaded connections to prevent leaks.
3. **Install Quartz Sleeve:** Carefully slide the quartz sleeve into the UV chamber. Handle with care as it is fragile. Ensure the O-rings are properly seated to create a watertight seal.
4. **Install UV Lamp:** Gently insert the UV lamp into the quartz sleeve. Do not touch the glass part of the lamp with bare hands; use gloves or a clean cloth. Connect the lamp pins to the electronic ballast connector.
5. **Connect Ballast:** Plug the electronic ballast into a standard 100-140V / 50-60Hz electrical outlet. The ballast features an audible and visual alarm to indicate lamp status.
6. **Check for Leaks:** Slowly turn on the water supply and check all connections for leaks. Address any leaks immediately by tightening connections or reapplying plumbing tape.
7. **System Flush:** Allow water to flow through the system for several minutes to flush out any air or debris before using the treated water.

5. OPERATING THE SYSTEM

Once installed and powered, the Geekpure UV Water Filter System operates continuously, 24/7, to ensure consistent water purification. The UV lamp emits ultraviolet light that inactivates bacteria, viruses, and other microorganisms as water

flows through the chamber.

- **Ballast Indicator:** The electronic ballast is equipped with a visual indicator (typically a green light) and an audible alarm. A steady green light indicates that the UV lamp is functioning correctly. If the light changes or an alarm sounds, it indicates a lamp failure or malfunction, requiring immediate attention.
- **Continuous Operation:** The UV lamp is designed to operate continuously. Turning it off and on frequently can reduce its lifespan. Note that if water is not flowing for an extended period, the water inside the UV chamber may heat up slightly. This is normal and will dissipate once water flow resumes.

6. MAINTENANCE

Regular maintenance is crucial for the effective and safe operation of your UV water filter system.

6.1 UV Lamp Replacement

- The UV lamp has an effective lifespan of approximately 9000 hours (approximately 1 year of continuous operation).
- Replace the UV lamp annually, even if it appears to be working, as its germicidal effectiveness diminishes over time.
- To replace: Disconnect power, shut off water supply, drain the system, carefully remove the old lamp and quartz sleeve, clean the quartz sleeve (or replace if damaged), insert the new lamp, and reassemble.

6.2 Quartz Sleeve Cleaning and Replacement

- The quartz sleeve should be cleaned periodically (e.g., every 3-6 months) to remove any mineral deposits or film that can reduce UV light transmission.
- Use a soft cloth and a mild acid cleaner (like vinegar or citric acid solution) to clean the sleeve. Rinse thoroughly with clean water.
- Replace the quartz sleeve if it is cracked, scratched, or cannot be cleaned effectively.

6.3 System Bleach Flush

- Periodically flushing the system with a bleach solution can help sanitize the plumbing downstream of the UV unit and prevent biofilm buildup.
- Consult a plumbing professional or local water treatment guidelines for appropriate bleach concentrations and flushing procedures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No UV light / Ballast alarm	Lamp failure, ballast failure, no power.	Check power connection. Replace UV lamp. If problem persists, replace ballast.
Water leaks from chamber connections	Improperly tightened connections, insufficient plumbing tape, damaged O-rings.	Ensure connections are tight. Reapply plumbing tape. Inspect and replace O-rings if damaged.
Reduced UV effectiveness	Dirty quartz sleeve, expired UV lamp, poor water quality (turbidity, hardness).	Clean or replace quartz sleeve. Replace UV lamp. Install pre-filters if water quality is an issue.
Water tastes/smells unusual after UV	UV system does not remove taste/odor; pre-filtration needed.	Install a carbon pre-filter to address taste and odor issues.

8. SPECIFICATIONS

Feature	Specification
Model Number	GP-UV25W
Product Dimensions	20.4"L x 2.5"W x 2.5"H (51.8 cm x 6.35 cm x 6.35 cm)
Item Weight	3 Pounds (1.36 kg)
Power Source	Corded Electric (100-140V / 50-60Hz)
Maximum Flow Rate	6 Gallons Per Minute (GPM)
UV Lamp Wattage	25 Watt
UV Lamp Lifespan	9000 hours minimum
Chamber Material	Stainless Steel 304
Inlet/Outlet Size	3/4 inch MNPT
Installation Type	Under Sink (or whole house main line)
Upper Temperature Rating	110°F (45°C)

8.1 Water Quality Specifications

- **Feed Water Pressure:** 40 - 100 PSI
- **Temperature:** 40-110°F (5-45°C)
- **pH:** 3.0 - 11.0
- **Max TDS:** 300 PPM
- **Residual Chlorine:** <0.1 mg/L
- **Turbidity:** <1.0 NTU
- **Max SDI:** <4.0
- **Hardness:** <5 GPG
- **Iron:** <0.1
- **Manganese:** <0.05

9. WARRANTY & SUPPORT

9.1 Warranty Information

The Geekpure Whole House UV 6 GPM Water Filter System comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. It does not cover damage resulting from improper installation, misuse, neglect, freezing, accident, or unauthorized repair.

Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact Geekpure Customer Service. Refer to the contact information provided on the product packaging or the official Geekpure website.

When contacting support, please have your product model number (GP-UV25W) and date of purchase readily available.

Related Documents - GP-UV25W

<p>Whole House Water Filtration System Installation and Maintenance Manual</p>   <p>Thanks for your choice of Geekpure Product.</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>Thanks for your choice of Geekpure Product.</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>
<p>SF-03 Shower Filter Instruction Manual</p>   <p>Thanks for your choice of Geekpure Product.</p>	<p>SF-03 Shower Filter Instruction Manual - Geekpure</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>Aquarium Reverse Osmosis Water Filtration System Installation and Maintenance Manual</p>   <p>Thanks for your choice of Geekpure Product.</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>RO Filters Replacement and Maintenance Manual</p>   <p>Thanks for your choice of Geekpure Product.</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>

Reverse Osmosis Water Filtration System
Installation and Maintenance Manual
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INSTALLERS, PLEASE READ ALL INSTRUCTIONS BEFORE
INSTALLING AND USING THIS SYSTEM.

IT IS RECOMMENDED TO WAIT UNTIL THE ENTIRE
SYSTEM IS PROPERLY SEaled INCLUDING STORAGE TANK &
PUMP AND RE-TEST FOR ANY LEAKS BEFORE
LEAVING INSTALLATION SITE.

IT IS NORMAL FOR SOME BLACK CARBON FINES TO
APPEAR IN THE WATER WHEN DROPPING THE FIRST 2
TANKS OF WATER. THE FIRST 2 GALLONS OF WATER
PRODUCED SHOULD BE EMPTIED AND NOT USED.

[Geekpure RO5 Series Reverse Osmosis Water Filtration System Installation and Maintenance Manual](#)

Comprehensive installation and maintenance guide for the Geekpure RO5 Series Reverse Osmosis Water Filtration System, covering setup, operation, troubleshooting, and filter replacement.