

Geekpure BB-20T

Geekpure 20-Inch Clear Whole House Water Filter Housing (Model BB-20T) User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Geekpure 20-Inch Clear Whole House Water Filter Housing (Model BB-20T). This filter housing is designed to be installed at your main water supply, providing filtered water throughout your entire home. Its clear design allows for easy visual monitoring of the filter cartridge condition, indicating when a replacement is needed.

The housing features a 1-inch NPT brass inlet/outlet for robust connections and includes a plastic wrench, screws, and a metal bracket for installation. An air release valve is integrated for convenient filter changes.



Figure 1: How the water filter housing works, showing tap water entering and pure water exiting after filtration.

2. PRODUCT COMPONENTS

Your Geekpure 20-Inch Clear Whole House Water Filter Housing package includes the following items:

- 1 x 20-inch Clear Filter Housing
- 1 x Plastic Wrench
- 1 x Metal Mounting Bracket
- 1 bag of Screws for mounting

Note: Filter cartridges are sold separately. Please choose the appropriate filter cartridge for your specific water

filtration needs.



Figure 2: Included components with the filter housing.

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your water filter housing. It is recommended to install the housing at the main water supply line entering your home.

Installation Steps:

1. **Plan Location:** Choose a suitable location for installation, typically where the main water supply enters the house, often near the hot water tank. Ensure there is enough space for maintenance and filter replacement.
2. **Shut Off Water Supply:** Turn off the main water supply to your home.
3. **Mount Bracket:** Securely mount the metal bracket to a sturdy wall or support structure using the provided screws. Ensure the bracket is level and can support the weight of the filled filter housing.
4. **Connect Plumbing:** Connect the 1-inch NPT brass inlet/outlet ports of the filter housing to your main water line. Use ample PTFE (Teflon) tape on all threaded connections to prevent leaks. Some users recommend using both PTFE tape and pipe compound for a secure seal.
5. **Insert Filter Cartridge:** Ensure a compatible 4.5-inch diameter by 20-inch filter cartridge (sold separately) is correctly seated inside the clear housing.
6. **Secure Housing:** Screw the clear housing onto the black head unit. Be mindful to align the threads correctly to avoid cross-threading. Hand-tighten, then use the provided plastic wrench for a snug fit.
7. **Restore Water Supply:** Slowly turn on the main water supply. Check for any leaks around the connections and the housing.
8. **Bleed Air:** Press the red air release button on top of the housing to release trapped air from the system. Hold until water begins to flow steadily.

Important: The material of the clear housing is not as strong as opaque blue housings. The suggested maximum work pressure is under 50 PSI. Operating temperatures should be between 40°F (4.4°C) and 110°F (43.3°C).

Installation diagram (recommended):

1. Feed water control valve
2. Whole House Water Filtration System
3. Inlet water control valve for UV Water Filter System
4. Geekpure UV Water Filter System
5. Outlet water control valve for UV Water Filter System
6. Tee connector for UV Water Filter System inlet water
7. Control valve
8. Tee connector for UV Water Filter System outlet water
9. Ballast for 230V 50HZ power

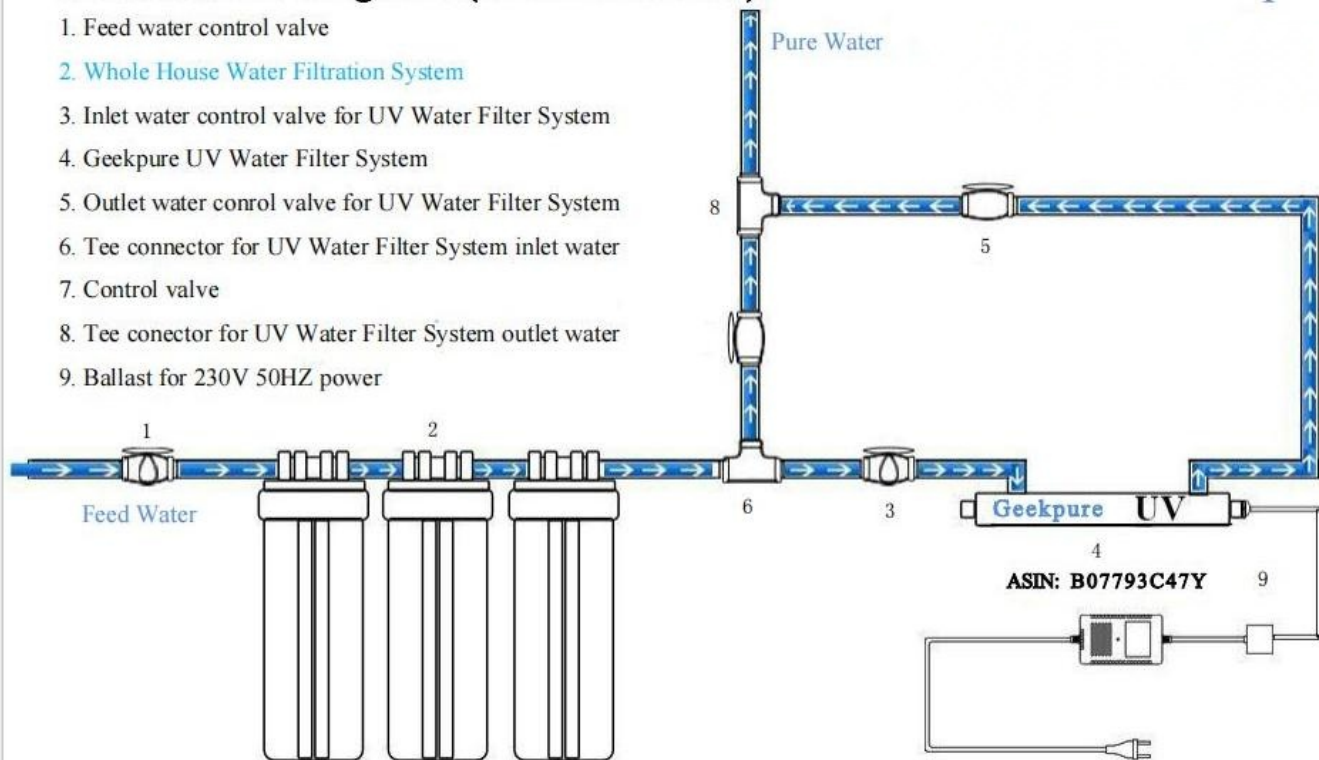


Figure 3: Recommended installation diagram for a whole house water filtration system.

Installation Video:

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Video 1: Official Geekpure installation overview for the 20-inch clear filter housing.

4. OPERATING INSTRUCTIONS

Once installed, the Geekpure 20-Inch Clear Whole House Water Filter Housing operates continuously as water flows through your main supply line. The primary operational aspect for the user is monitoring the filter cartridge.

Monitoring Filter Condition:

The clear housing design allows you to visually inspect the filter cartridge. This is a significant advantage as it helps you determine when the filter needs to be changed without guessing or opening the housing prematurely. Observe the filter for signs of discoloration, accumulation of sediment, or any visible algae growth. A heavily discolored or clogged filter indicates it's time for replacement to maintain optimal water flow and filtration efficiency.

5. MAINTENANCE

Regular maintenance, primarily filter cartridge replacement, ensures your water filtration system continues to provide clean water efficiently.

Filter Cartridge Replacement:

The frequency of filter replacement depends on your water quality and usage. Visually inspect the filter through the clear housing. Replace the filter when it appears dirty or discolored, or if you notice a decrease in water pressure.

Steps for Filter Replacement:

1. **Shut Off Water:** Turn off the main water supply to the filter housing.
2. **Relieve Pressure:** Press the red air release button on top of the filter housing to relieve any built-up pressure. This makes unscrewing the housing easier.
3. **Unscrew Housing:** Place a bucket underneath the housing to catch any dripping water. Use the provided plastic wrench to unscrew the clear housing from the black head unit.
4. **Remove Old Filter:** Carefully remove the old, used filter cartridge.
5. **Clean Housing:** Rinse the inside of the clear housing thoroughly with clean water. For sanitation, you may spray and wipe with a food-safe sanitizer solution. Ensure the O-ring on the housing is clean and free of debris.
6. **Lubricate O-ring:** Apply a thin layer of food-grade silicone grease to the O-ring to ensure a proper seal and ease of future removal.
7. **Insert New Filter:** Place the new 4.5-inch x 20-inch filter cartridge into the housing, ensuring it sits securely on the bottom bump.
8. **Reattach Housing:** Carefully screw the clear housing back onto the head unit, ensuring threads are aligned. Hand-tighten, then use the plastic wrench for a final snug turn. Do not overtighten.
9. **Restore Water:** Slowly turn on the main water supply. Check for leaks.
10. **Bleed Air:** Press the red air release button again to purge any remaining air from the system.

Pressure Relife Button

The compressive cap

1" Inlet/Outlet Brass Ports



Figure 4: Details of the filter housing head, including the pressure relief button.

Compatible Filter Cartridges:

This housing is compatible with standard sized 4-1/2 inch diameter by 20 inch whole house cartridges. Geekpure offers various filter cartridge options, including sediment and carbon filters, to suit different filtration needs. Refer to the product listings for compatible ASINs such as B07798RFVH, B07JM78FXT, B07JNL4QFS, B07TNJ86KZ, B07TPLK752, B07JMMGND9, and B081DH69JX.

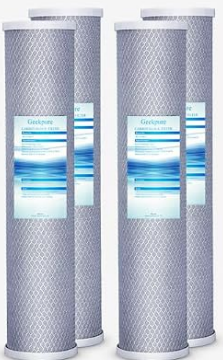
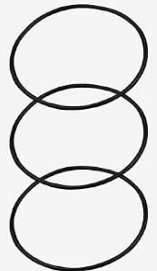
				
BB-20T 20inch Asin:B077BDQGHP	BB-20B 20inch Asin:B0779RD4YM	BC20-BB-5X4 20inch Asin:B07JNL4QF5	PP20-BBx4 20inch Asin:B07JM78FXT	Blue Housing Clear Housing B07D9K2RZN B07H5CSH6T
				
BC20-BB-5 20inch Asin:B07798RFVH	PP20-BB-5 20inch Asin:B07794W9F8	PS-20BX4 Asin:B07TPLK752	PL-20BX4 20inch Asin:B07TNJ86KZ	Blue Housing Clear Housing B07D9HGCSB B07D9JDQGJ

Figure 5: Examples of compatible filter cartridges and accessories.

6. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Water Leaks from Connections	Insufficient PTFE tape, improperly tightened connections, or misaligned threads.	Ensure all threaded connections have sufficient PTFE tape (e.g., 7-12 wraps) and are tightened securely. Verify threads are not cross-threaded. Consider using pipe thread sealant in addition to PTFE tape.
Water Leaks from Housing Seal	Damaged or improperly seated O-ring, or debris on the O-ring.	Inspect the O-ring for cracks or damage; replace if necessary. Clean the O-ring and its groove thoroughly. Apply food-grade silicone grease to the O-ring before reassembling the housing. Ensure the housing is tightened properly.
Water Leaks from Pressure Relief Button	Debris under the button or a faulty valve.	Press the button several times to dislodge any debris. If leaking persists, the valve may be faulty, and the housing head might need replacement.

Problem	Possible Cause	Solution
Low Water Pressure	Clogged filter cartridge.	Visually inspect the filter through the clear housing. If it appears dirty or discolored, replace the filter cartridge.
Mounting Bracket Sagging	Insufficient support for the weight of the filled housing.	Ensure the bracket is mounted to a very sturdy surface. Consider adding additional support underneath the housing, such as a wooden block or shelf, especially for multiple housings in series.

7. SPECIFICATIONS

Feature	Specification
Brand	Geekpure
Model Name	BB-20T 1"
Model Number	BB-20T
Product Dimensions (L x W x H)	7"L x 7"W x 23"H
Item Weight	10 Pounds
Material	Plastic (Clear Housing)
Inlet/Outlet Size	1" NPT Brass Port
Capacity (Flow Rate)	15 Gallons per Minute (Maximum)
Installation Type	Wall Mount
Lower Temperature Range	40 Degrees Fahrenheit (4.4°C)
Upper Temperature Rating	110 Degrees Fahrenheit (43.3°C)
Supported Water TDS Level Maximum	500 PPM
Filter Life Cycle (Housing)	2 Years (Note: Cartridge life varies)
Product Shelf Life	5 Years
Special Feature	Clear housing for visual filter monitoring

Name: 20" Filter Housing
Dimension: 7*5.3*23in
Weight: 11.02lbs
Inlet/Outlet: 1"NPT
Matched Filter Size: 4.5 * 20 inch

**If your original housing is not Geekpure,
please replace the top cover and housing body together.**
**Alternatively, you may obtain a replacement from
your original brand if you don't want to re-install**



Figure 6: Product dimensions and key specifications.

8. WARRANTY & SUPPORT

Warranty Information:

The Geekpure 20-Inch Clear Whole House Water Filter Housing comes with a **1 Year limited warranty** from the date of purchase. This warranty covers manufacturing defects under normal use and service. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact Geekpure customer support. Contact information can typically be found on the product packaging or the official Geekpure website. When contacting support, please have your product model number (BB-20T) and purchase details ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question