Premier Water Systems KDF55/GAC10 Filter

Premier Water Systems KDF 55 + GAC Water Filter: Installation and Maintenance Guide

Model: KDF55/GAC10 Filter

1. Product Overview

The Premier Water Systems KDF 55 + GAC water filter is a high-performance cartridge designed to enhance water quality by removing various contaminants. This filter combines KDF 55 media with Granular Activated Carbon (GAC) to provide comprehensive filtration.

- **KDF 55 Media:** Effectively removes chlorine, chemicals, heavy metals (such as lead, mercury, nickel, chromium), and controls the buildup of bacteria, algae, and fungi.
- **Granular Activated Carbon (GAC):** Further reduces chlorine, improves taste and odor, and removes organic compounds.
- **Compatibility:** Designed to fit standard 10-inch filter housings commonly found in drinking water filters, countertop systems, and reverse osmosis (RO) systems.
- **Application:** Ideal for point-of-use or low-flow water filtration applications.



Figure 1: Premier Water Systems KDF 55 + GAC Water Filter Cartridge. This image shows the cylindrical filter cartridge with blue end caps, designed for standard 10-inch filter housings.

2. Installation Instructions

Follow these steps for proper installation of your KDF 55 + GAC water filter. It is recommended to consult a qualified plumber if you are unsure about any steps.

1. **Turn off Water Supply:** Locate the main water shut-off valve for your system or home and turn it off. Open a nearby faucet to relieve pressure in the lines.
2. **Prepare Filter Housing:** If replacing an existing filter, unscrew the filter housing sump using a filter wrench. Carefully remove the old filter cartridge and discard it. Clean the inside of the filter housing with warm, soapy water and rinse thoroughly.
3. **Inspect O-Rings:** Check the housing O-rings for any cracks or damage. Replace if necessary. Lubricate O-rings with a food-grade silicone grease to ensure a proper seal.

4. **Insert New Filter:** Remove the new KDF 55 + GAC filter from its packaging. Ensure the filter is oriented correctly (if applicable, check for flow direction arrows on the filter or housing). Insert the new filter cartridge into the housing sump.
5. **Reassemble Housing:** Carefully screw the filter housing sump back onto the housing head. Hand-tighten first, then use a filter wrench to tighten an additional 1/4 to 1/2 turn. Do not overtighten.
6. **Restore Water Supply:** Slowly turn on the main water supply valve. Monitor the filter housing for any leaks.
7. **Flush the Filter:** Open a nearby cold water faucet and allow water to run for at least 5-10 minutes to flush out any carbon fines and air from the system. The water may appear cloudy initially; this is normal and will clear up.
8. **Check for Leaks:** After flushing, re-check the filter housing for any leaks.

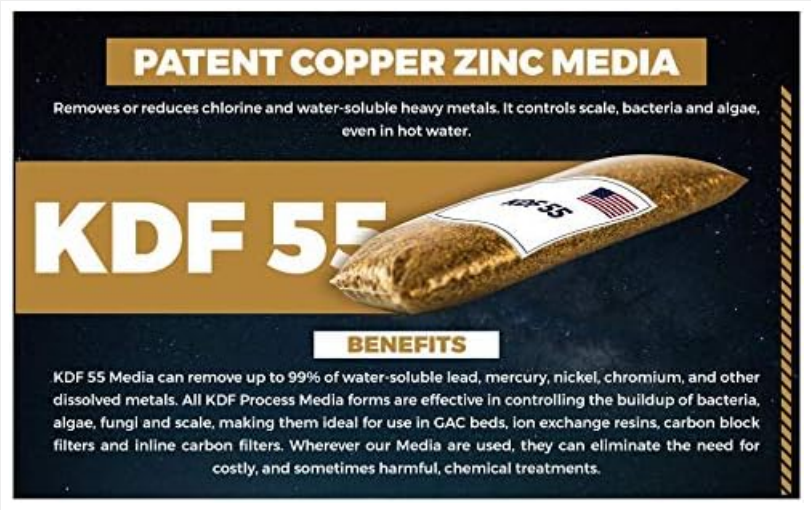


Figure 2: KDF 55 Media. This image illustrates the KDF 55 media, a key component of the filter, responsible for heavy metal and chlorine reduction.

3. Operation

Once installed, the KDF 55 + GAC filter operates continuously to purify your water. Water flows through the filter cartridge, where the KDF 55 media and granular activated carbon work in tandem to remove impurities.

- **Water Flow:** The filter is designed for optimal performance in point-of-use or low-flow applications.
- **Taste and Odor Improvement:** You should notice an immediate improvement in the taste and odor of your filtered water.
- **Chlorine and Heavy Metal Reduction:** The filter actively reduces chlorine and various heavy metals from your water supply.



Figure 3: Activated Coconut Carbon. This image highlights the benefits of activated coconut carbon, another crucial filtration component, contributing to cleaner water and improved taste.

4. Maintenance

Regular maintenance, primarily filter replacement, is crucial for maintaining optimal water quality and system performance.

- **Filter Replacement:** The lifespan of the filter depends on water quality and usage. It is generally recommended to replace the filter every 6-12 months, or sooner if you notice a decrease in water flow or a return of undesirable tastes/odors.
- **Replacement Procedure:** Follow the "Installation Instructions" (Section 2) in reverse to replace the filter. Always turn off the water supply and relieve pressure before opening the housing.
- **Housing Cleaning:** Clean the filter housing thoroughly during each filter replacement to prevent bacterial growth and maintain system hygiene.

5. Troubleshooting

Problem	Possible Cause	Solution
Low Water Flow	◦ Clogged filter cartridge ◦ Air trapped in the system ◦ Incorrect filter installation	◦ Replace the filter cartridge. ◦ Flush the system by running water for several minutes. ◦ Re-install the filter, ensuring proper seating and no air pockets.
Undesirable Taste or Odor Returns	◦ Filter media exhausted	◦ Replace the filter cartridge.
Water Leaks from Housing	◦ Loose housing sump ◦ Damaged or improperly seated O-ring	◦ Tighten the housing sump (do not overtighten). ◦ Turn off water, open housing, inspect and re-seat or replace O-rings.

6. Specifications

Attribute	Detail
Model Number	KDF55/GAC10 Filter
Filter Type	KDF 55 + Granular Activated Carbon (GAC)
Dimensions (D x W x H)	2.5" x 2.5" x 9.75" (6.35 cm x 6.35 cm x 24.76 cm)
Material	Carbon (and KDF media)
Primary Benefits	Removes chlorine, heavy metals, chemicals, tastes, and odors
Compatibility	Standard 10" filter housings
UPC/GTIN	818368015761
Manufacturer	Premier Water Systems

7. Warranty and Support

For information regarding product warranty, technical support, or replacement parts, please contact Premier Water Systems directly. Refer to the product packaging or the manufacturer's official website for contact details.

It is recommended to keep your purchase receipt as proof of purchase for warranty claims.

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