

PerGar PerGarbg9vk6fqey-13

PerGar Drip Irrigation Y Filter

USER MANUAL

1. Product Overview

The PerGar Drip Irrigation Y Filter is an essential component for maintaining the quality of water in your irrigation system. Designed for both drip and sprinkler irrigation, this filter effectively removes impurities, ensuring optimal performance and longevity of your watering equipment. Its robust plastic construction provides durability and resistance to water and erosion.



Figure 1: The PerGar Drip Irrigation Y Filter, a robust solution for water filtration in irrigation systems.

Key Features:

- **Premium Plastic Material:** Constructed from high-quality plastic, ensuring durability, waterproofing, and erosion resistance for extended use.
- **Improved Agricultural Irrigation Efficiency:** Features an efficient filtration system that effectively removes impurities, enhancing water quality and irrigation performance.
- **Versatile Y-Shaped Design:** Suitable for various irrigation methods, including drip irrigation and sprinkler systems, accommodating diverse crop needs.
- **Easy Installation:** Designed for straightforward installation and dismantling, allowing for convenient replacement of filtration components to suit different water quality requirements.
- **Wide Application:** An ideal accessory for agricultural growers and gardening enthusiasts, addressing a broad spectrum of irrigation demands.

2. Specifications

Attribute	Detail
Item Type	Irrigation Filter
Material	Plastic
Housing Size	Approx. 16.4 x 18.7 x 9.3 cm (6.5 x 7.4 x 3.7 in)
Filter Size	Approx. 14.2 x 4.4 cm (5.6 x 1.7 in)
Package Dimensions	9.84 x 9.84 x 3.94 inches
Weight	13.4 ounces
Model Number	PerGarbg9vk6fqey-13
Manufacturer	PerGar
Country of Origin	China
Special Feature	Sprinkler compatible
Number of Pieces	1

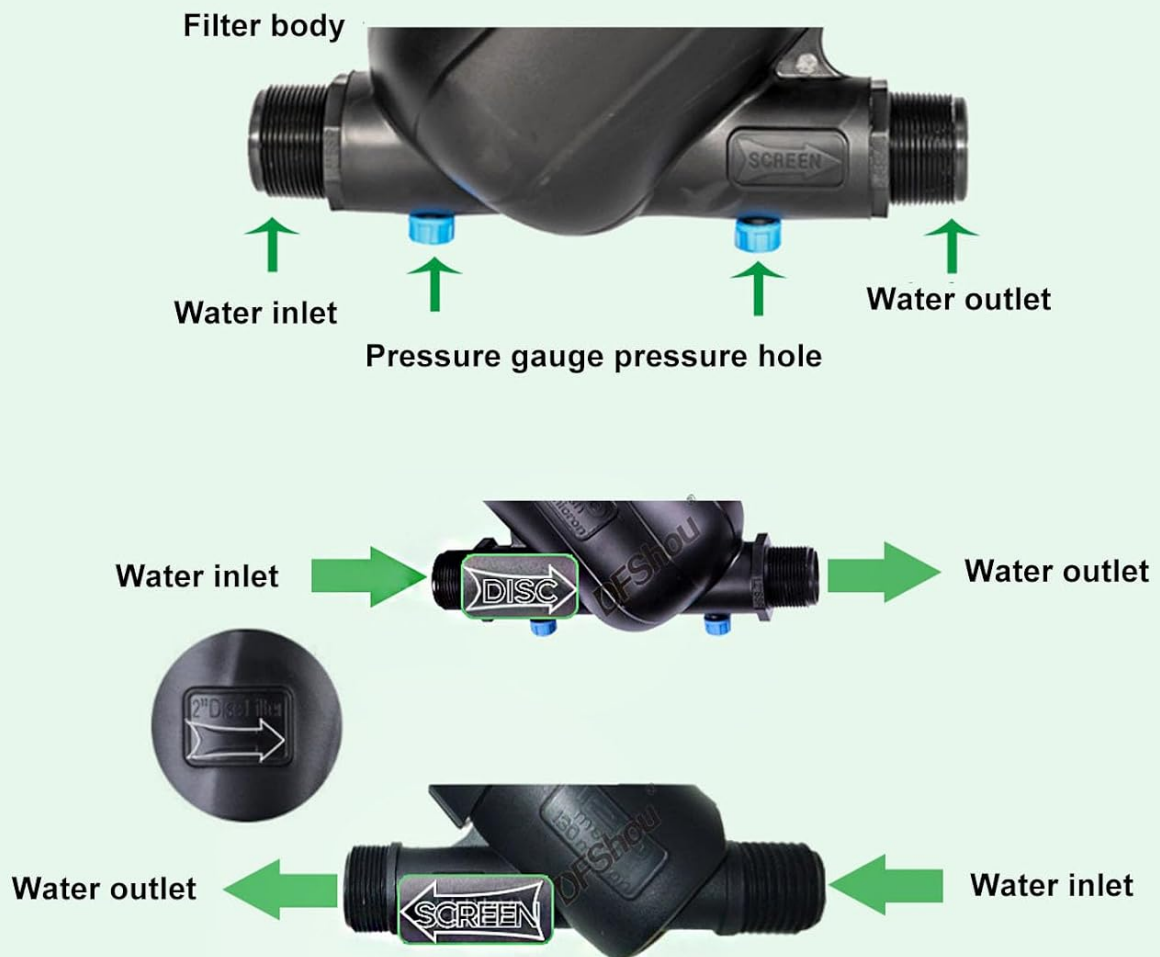


Figure 2: Product dimensions for planning installation space.

3. Setup and Installation

The PerGar Drip Irrigation Y Filter is designed for easy installation. Follow these steps to integrate it into your irrigation system:

1. **Identify Water Flow Direction:** Locate the arrows on the filter body. These indicate the correct direction of water flow. Ensure the filter is installed so water enters through the inlet and exits through the outlet as marked.
2. **Choose Filter Type:** The filter supports both disc and screen filter elements. Select the appropriate filter type based on your water quality and filtration needs.
3. **Connect to System:** Use appropriate fittings to connect the filter's male threaded ends to your irrigation lines. Ensure all connections are tight to prevent leaks.
4. **Secure Placement:** Position the filter in a stable location, ideally before any sensitive components like emitters or sprinklers, to protect them from impurities.



Installation direction according to the direction of the arrow above the filter, i.e. the direction of water flow, there are two arrows, DISC arrow (stacked filter installation direction), SCREEN arrow (mesh filter installation direction)

Figure 3: Proper installation direction is crucial for effective filtration. Follow the arrows on the filter body.



Figure 4: Example of the filter installed in an outdoor agricultural setting.



Figure 5: The filter can also be integrated into indoor hydroponic or greenhouse systems.

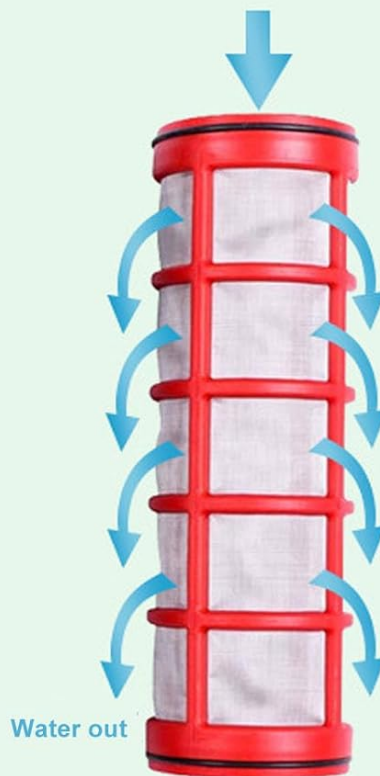
4. Operating Principles

The PerGar Y Filter operates by directing water through a chosen filtration element (disc or screen) to trap suspended impurities. Water enters the filter, passes through the fine mesh or stacked discs, and exits as cleaner water. The trapped particles are retained within the filter housing.

Disc filter in and out of water mode



Water inlet and outlet



Screen filter inlet and outlet mode

Figure 6: Illustration of water flow through both disc and screen filter types.

Filtration Details

Professional Irrigation



Figure 7: Close-up view of the internal disc and screen filter elements.

This filtration process is effective against various waterborne impurities, including inorganic particles like sand and sediment, and organic matter such as seeds and seaweed, ensuring a cleaner water supply for your plants.



Effective barrier to waterborne impurities
Effectively targets different types of suspended impurities,
whether inorganic (sand, sediment, etc.)
or organic (seeds, seaweed, etc.).

Figure 8: The filter effectively blocks various impurities found in irrigation water.

5. Maintenance

Regular maintenance of your PerGar Drip Irrigation Y Filter is crucial for its efficient operation and extended lifespan. The frequency of cleaning will depend on the quality of your water source.

1. **Disassembly:** Turn off the water supply to the filter. Carefully unscrew the bottom cap or housing to access the filter element.
2. **Cleaning the Filter Element:** Remove the disc or screen filter element. Rinse it thoroughly under running water to dislodge any trapped debris. For stubborn clogs, a soft brush can be used. Avoid using harsh chemicals or abrasive materials that could damage the filter.
3. **Inspect for Damage:** While cleaning, inspect the filter element and housing for any signs of wear, cracks, or damage. Replace any damaged components immediately.
4. **Reassembly:** Once clean, reinsert the filter element into the housing, ensuring it is correctly seated. Screw the bottom cap back on tightly, ensuring a watertight seal.

5. **Test:** Slowly turn the water supply back on and check for any leaks.

6. Troubleshooting

If you encounter issues with your PerGar Drip Irrigation Y Filter, consider the following common problems and solutions:

- **Low Water Flow:**
 - **Cause:** Clogged filter element.
 - **Solution:** Perform routine maintenance and clean the filter element as described in Section 5.
- **Leaks from Filter Connections:**
 - **Cause:** Loose connections or damaged O-rings/seals.
 - **Solution:** Ensure all connections are tightened properly. Inspect O-rings and seals for wear or damage and replace if necessary.
- **Filter Not Trapping Impurities Effectively:**
 - **Cause:** Incorrect filter element type for water quality, or damaged element.
 - **Solution:** Ensure you are using the appropriate disc or screen filter for your water source. Inspect the filter element for tears or damage and replace if found.

7. Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts for your PerGar Drip Irrigation Y Filter, please contact the seller or manufacturer directly. Keep your purchase receipt or order details handy as proof of purchase.

Manufacturer: PerGar

Model Number: PerGarbg9vk6fqey-13

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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.

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