DEWIN DEWINot85epiu6f

DEWIN 1-Inch Drip Irrigation Disc Filter User Manual

Model: DEWINot85epiu6f

1. Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your DEWIN 1-Inch Drip Irrigation Disc Filter. This filter is designed to effectively remove particles from water, ensuring the longevity and efficiency of your drip irrigation system in agricultural, garden, and lawn watering applications. Please read this manual thoroughly before use to ensure optimal performance and safety.



Image 1.1: The DEWIN 1-Inch Drip Irrigation Disc Filter with its internal red filter element.

2. Safety Information

Important Safety Precautions:

- Ensure proper installation to prevent leaks or water damage.
- Use caution when connecting the filter to a water source.
- Some components of the filter are made of plastic; handle with care to avoid damage.
- Do not exceed the maximum recommended water pressure for the filter.
- Regularly inspect the filter for any signs of wear or damage. Replace damaged parts immediately.

3. Product Overview and Features

The DEWIN 1-Inch Drip Irrigation Disc Filter is designed for efficient water filtration in various irrigation systems. Its key features include:

- **Micron Level Filtration:** Features a 120 mesh / 130 micron filtration level, capable of trapping a significant amount of particles and solids.
- **High Efficiency:** Superior to screen filters for organic matter, offering a larger filtration area for less frequent

cleaning.

- **Easy Maintenance:** Unique design allows for simple cleaning and assembly, even in confined spaces.
- **Wide Compatibility:** Suitable for household water filtration, agriculture, garden, lawn watering, municipal garden irrigation, and industrial filtration.



Image 3.1: The DEWIN disc filter positioned in a green field, illustrating its application in outdoor irrigation systems.

4. Specifications

Feature	Detail
Model Number	DEWINot85epiu6f
Brand	DEWIN
Material	Plastic
Filtration Level	120 Mesh / 130 Micron
Inlet/Outlet Size	1 inch (threaded)

Feature	Detail
Approximate Dimensions (L x W x H)	23 x 16.5 x 9.4 cm (9.1 x 6.5 x 3.7 inches)
Item Weight	0.39 Kilograms



Image 4.1: Detailed dimensions of the DEWIN 1-Inch Drip Irrigation Disc Filter.

5. Setup and Installation

Proper installation is crucial for the filter's performance and to prevent leaks. Follow these steps:

1. **Identify Flow Direction:** The filter typically has an arrow indicating the direction of water flow. Ensure it is installed correctly in line with your irrigation system.
2. **Placement:** Install the filter after the main water source (pump or tap) and before the drip lines or emitters. This protects the entire system from sediment.
3. **Connection:** Connect the filter using the 1-inch threaded inlet and outlet. Use appropriate thread sealant (e.g., PTFE tape) to ensure a watertight seal. Hand-tighten, then use a wrench for a final quarter to half turn, avoiding overtightening which can damage plastic threads.
4. **Secure Mounting:** If necessary, secure the filter to a stable surface or support to prevent strain on the

connections.

5. **Pressure Gauge (Optional):** If your system includes a pressure gauge, install it before and after the filter to monitor pressure drop, which indicates when cleaning is needed.
6. **Flush System:** After installation, slowly open the water supply and flush the system to remove any air or loose debris before connecting sensitive drip components.

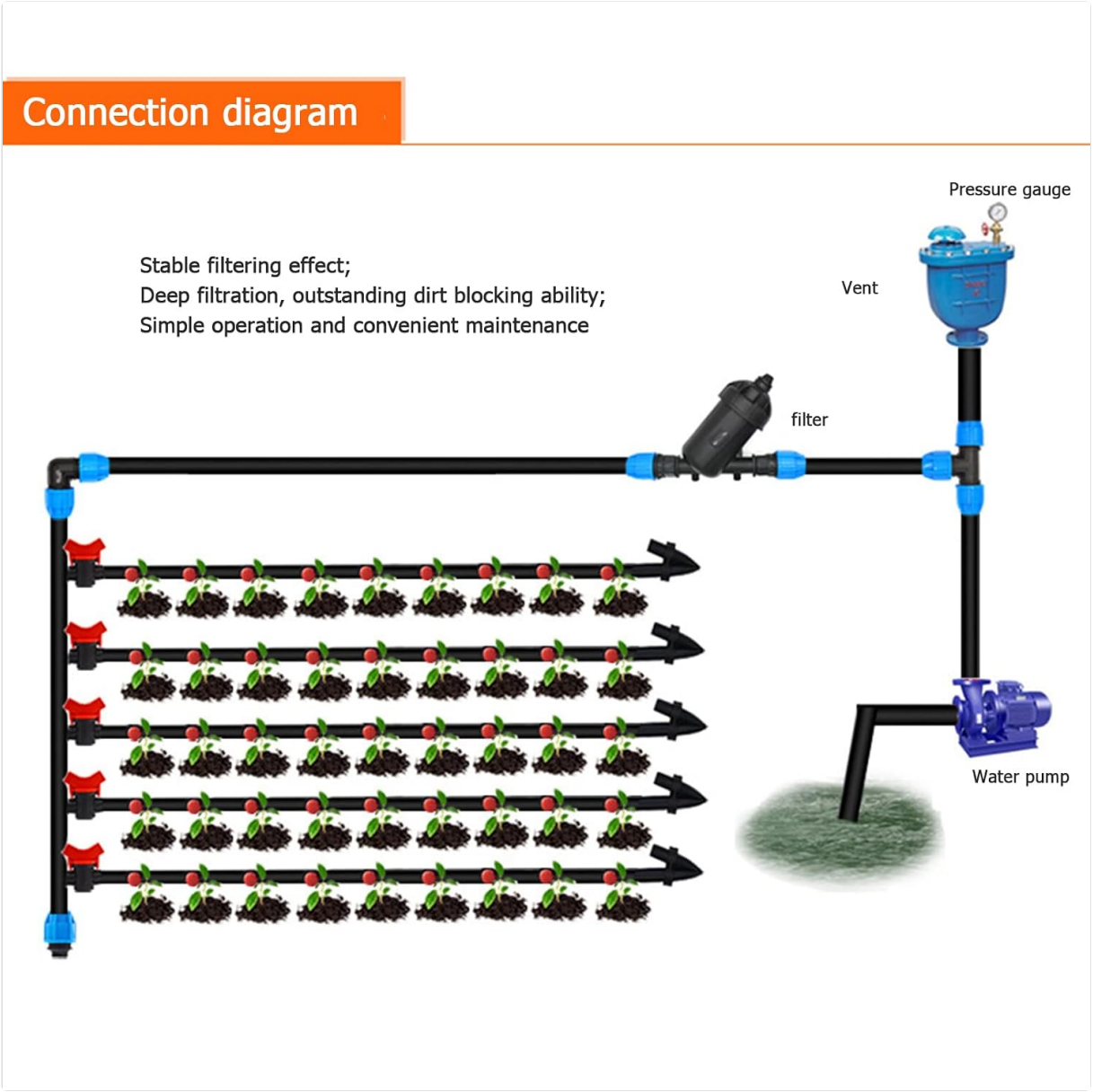


Image 5.1: A diagram illustrating the typical connection of a drip irrigation filter within a complete watering system, showing its placement relative to the water pump and pressure gauge.

6. Operation

Once installed, the DEWIN disc filter operates passively, continuously filtering water as it flows through your irrigation system. No specific user interaction is required during normal operation.

- **Monitoring:** Periodically check the water flow rate and pressure. A noticeable drop in flow or an increase in pressure differential across the filter (if gauges are installed) indicates that the filter element may be clogged and requires cleaning.
- **Flow Direction:** Ensure water flows in the direction indicated by the arrow on the filter housing.

7. Maintenance

Regular cleaning of the disc filter element is essential to maintain filtration efficiency and prevent system blockages. The frequency of cleaning depends on water quality.

1. **Turn Off Water Supply:** Before performing any maintenance, completely shut off the water supply to the irrigation system.
2. **Relieve Pressure:** Open a valve downstream to relieve any residual pressure in the system.
3. **Disassemble Filter:** Unscrew the bottom cap or housing of the filter to access the disc filter element.
4. **Remove Disc Element:** Carefully remove the red disc filter element from the housing.
5. **Clean Element:** Separate the discs by loosening the nut that holds them together. Rinse the individual discs thoroughly under running water to remove trapped particles. A soft brush can be used for stubborn debris.
6. **Inspect:** Inspect the discs and housing for any damage, cracks, or excessive wear. Replace if necessary.
7. **Reassemble:** Reassemble the disc element, ensuring the discs are properly stacked and the retaining nut is tightened. Insert the cleaned disc element back into the filter housing.
8. **Secure Housing:** Screw the bottom cap or housing back onto the filter body, ensuring a tight seal.
9. **Restore Water Supply:** Slowly turn on the water supply and check for leaks.



Image 7.1: A close-up view of the red disc filter element, which is the core component responsible for filtration and requires regular cleaning.

8. Troubleshooting

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Reduced Water Flow / Pressure Drop	Clogged filter element.	Clean the disc filter element as described in Section 7.
Water Leaks from Connections	Improperly tightened connections, damaged threads, or insufficient thread sealant.	Ensure connections are tight but not overtightened. Reapply thread sealant if necessary. Inspect threads for damage.
Filter Cap Blows Off	Excessive water pressure, improper assembly, or damaged housing/threads.	Verify water pressure is within acceptable limits for the filter. Ensure the cap is securely tightened and threads are not cross-threaded or damaged. If damage is present, replace the unit.
Water Not Filtering Effectively	Damaged or incorrectly assembled disc element.	Disassemble and inspect the disc element. Ensure all discs are correctly stacked and free from damage. Clean thoroughly.

9. Warranty and Support

For any questions, concerns, or support regarding your DEWIN Drip Irrigation Disc Filter, please contact the seller or manufacturer directly. Please refer to your purchase documentation for specific warranty terms and contact information.

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