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Rain Bird PRF075RBY

Rain Bird PRF075RBY 3/4" Pressure Regulating RBY Drip Filter Instruction Manual

Model: PRF075RBY

1. INTRODUCTION

The Rain Bird PRF075RBY is a compact, integrated unit designed for low-volume irrigation systems. It combines both filtration and pressure regulation functions into a single component, protecting downstream irrigation emitters and ensuring consistent water delivery. This manual provides essential information for the proper installation, operation, and maintenance of your PRF075RBY filter.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this product. Failure to follow these instructions may result in property damage or injury.

- Always turn off the main water supply before installing or performing maintenance on the filter.
- Ensure all connections are secure to prevent leaks.
- Do not exceed the maximum operating pressure specified for this device.
- Keep out of reach of children.
- Use only for its intended purpose in irrigation systems.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x Rain Bird PRF075RBY 3/4" Pressure Regulating RBY Drip Filter
- Instruction Manual (this document)

Note: Additional fittings or tools required for installation are sold separately.

4. SETUP AND INSTALLATION

The PRF075RBY filter should be installed downstream of the main water supply and before the drip irrigation zone. It is designed for 3/4-inch pipe connections.

- 1. Prepare the Installation Site:** Turn off the main water supply to the irrigation system. Drain any residual water from the lines.
- 2. Identify Flow Direction:** The PRF075RBY has an arrow indicating the direction of water flow. Ensure the filter is installed with the arrow pointing towards the drip zone.
- 3. Connect the Filter:**
 - Apply thread sealant (e.g., PTFE tape) to the male threaded ends of your irrigation pipes.
 - Thread the PRF075RBY filter onto the pipe coming from the water source (inlet) and then connect the pipe leading to the drip zone (outlet).
 - Hand-tighten the connections, then use a wrench for an additional 1/2 to 1 full turn to ensure a watertight seal.
Do not overtighten.
- 4. Inspect for Leaks:** Slowly turn on the main water supply and check all connections for leaks. Tighten any leaking connections as necessary.



Figure 1: Rain Bird PRF075RBY Drip Filter. This image shows the compact design of the filter, featuring 3/4 inch threaded connections on both ends and a distinctive RBY cap for easy access to the filter screen.

5. OPERATING INSTRUCTIONS

Once properly installed, the Rain Bird PRF075RBY operates automatically. It continuously filters debris from the water and regulates the pressure to a nominal 30 psi (or 40 psi, depending on the specific model variant) for optimal performance of your drip irrigation system. No manual adjustments are typically required for its pressure regulation function.

6. MAINTENANCE

Regular cleaning of the filter screen is essential to maintain optimal performance and prevent clogging of your drip emitters. The frequency of cleaning will depend on the quality of your water source.

- Turn Off Water Supply:** Before any maintenance, always turn off the main water supply to the irrigation system.
- Remove the RBY Cap:** The RBY filter cap has a sealing O-ring and unthreads easily. Unscrew the cap counter-clockwise to access the filter element.
- Remove and Clean the Screen:** Carefully pull out the cylindrical mesh screen (200 mesh). Rinse the screen thoroughly under running water to remove any accumulated debris. A soft brush can be used for stubborn particles.
- Inspect O-Ring:** Check the O-ring on the cap for any signs of damage or wear. Replace if necessary to ensure a proper seal.
- Reassemble:** Insert the clean filter screen back into the filter body. Ensure it is seated correctly. Thread the RBY cap back onto the filter body and hand-tighten until snug.
- Restore Water Supply:** Slowly turn on the main water supply and check for leaks.

7. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-----------------------------------|---|--|
| Low Water Flow / Pressure | Clogged filter screen | Clean the filter screen (refer to Section 6). |
| | Insufficient main water supply pressure | Verify main water pressure. The PRF075RBY regulates <i>down</i> to 30 psi, it does not boost pressure. |
| Water Leaks at Connections | Loose connections | Tighten connections. Ensure proper use of thread sealant. |
| | Damaged O-ring on RBY cap | Inspect and replace the O-ring if damaged. |
| No Pressure Regulation | Incorrect installation direction | Ensure the filter is installed with the flow arrow pointing towards the drip zone. |
| | Internal regulator malfunction | If cleaning does not resolve the issue and installation is correct, the unit may need replacement. |

8. SPECIFICATIONS

- **Model:** PRF075RBY
- **Inlet/Outlet Size:** 3/4 inch NPT (National Pipe Taper)
- **Regulated Pressure:** Nominal 30 psi (pounds per square inch)
- **Filter Mesh:** 200 mesh screen
- **Product Dimensions:** Approximately 17 x 7 x 6 inches (*Note: This dimension is provided in product data; actual physical size may appear smaller for a 3/4" filter.*)
- **Item Weight:** Approximately 2.24 ounces
- **Manufacturer:** Rain Bird

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation included with your product at the time of purchase or visit the official Rain Bird website. For technical support or further assistance, please contact Rain Bird customer service.

Rain Bird Contact Information: Please visit www.rainbird.com for current contact details and support resources.

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