

Rain Bird 1402MX

Rain Bird 1402MX .50 GPM Pressure Compensating Bubbler Instruction Manual

Model: 1402MX

[Introduction](#)[Features](#)[Setup & Installation](#)[Operation](#)[Maintenance](#)[Troubleshooting](#)[Specifications](#)[Warranty & Support](#)

1. INTRODUCTION

The Rain Bird 1402MX .50 GPM Pressure Compensating Bubbler is designed to provide a controlled, gentle trickle of water for efficient irrigation. This full-circle bubbler is ideal for watering trees, flowers, and shrub areas that require consistent water delivery regardless of pressure fluctuations. It ensures that water is absorbed effectively, minimizing runoff.



Image 1: The Rain Bird 1402MX .50 GPM Pressure Compensating Bubbler. This image shows the compact design of the bubbler, highlighting its nozzle and connection point.

2. KEY FEATURES

- **Bubbler Nozzle:** Delivers 0.50 gallons per minute (GPM) in a full-circle, gentle trickle pattern.
- **Low Flow Rates:** Allows water to be absorbed as needed, significantly reducing runoff and water waste.
- **Pressure Compensation:** Maintains a consistent flow rate between 20 and 90 psi (1.4 to 6.2 bar), ensuring uniform watering.

- **Durable Construction:** Made from corrosion-proof plastic and rubber for extended product life.
- **Easy Installation:** Shipped with a special SR-050 1/2" (15/21) bubbler filter screen for straightforward setup and resistance to debris.

3. SETUP & INSTALLATION

Proper installation ensures optimal performance and water distribution from your Rain Bird 1402MX bubbler.

1. **Prepare the Riser:** Ensure you have a 1/2" male threaded riser available at the desired watering location. The riser should be securely installed and connected to your irrigation system's water supply.
2. **Attach the Bubbler:** Carefully thread the Rain Bird 1402MX bubbler onto the 1/2" male riser. Hand-tighten the bubbler until it is snug. Avoid over-tightening, which can damage the threads or the bubbler body.
3. **Positioning:** Position the bubbler so that the water will trickle directly onto the root zone of the plants you intend to water. The bubbler is designed to water areas from 1 to 3 feet in diameter.
4. **Check for Leaks:** Turn on the water supply to the irrigation zone. Observe the connection point for any leaks. If leaks occur, gently tighten the bubbler further or re-thread it if necessary.
5. **Verify Flow:** Confirm that the bubbler is emitting a gentle, full-circle trickle pattern. The pressure compensating feature will ensure a consistent flow rate even if system pressure varies.

4. OPERATION

The Rain Bird 1402MX bubbler operates by delivering a precise, low-volume trickle of water. Once installed and the irrigation system is activated, the bubbler will automatically provide a consistent flow of 0.50 GPM. Its pressure compensating design ensures that the output remains stable across a wide range of operating pressures (20-90 psi), preventing over or under-watering due to pressure fluctuations. This trickle pattern allows for deep water penetration into the soil, promoting healthy root development and minimizing water loss from evaporation or runoff, especially on sloped areas or dense soils.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your bubbler.

- **Filter Screen Cleaning:** The bubbler is equipped with an SR-050 filter screen. Periodically inspect and clean this screen to prevent clogging from debris in the water supply. To clean, carefully unscrew the bubbler from the riser, remove the screen, rinse it under running water, and reinsert it before reattaching the bubbler.
- **Check for Obstructions:** Ensure that no plant growth, mulch, or other debris is obstructing the bubbler's outlet, which could impede the water flow.
- **Inspect for Damage:** Occasionally check the bubbler for any signs of physical damage, such as cracks or wear, which could affect its performance. Replace damaged bubblers as needed.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No water or very low flow	Clogged filter screen Insufficient water pressure Obstructed nozzle	Clean the SR-050 filter screen. Verify main water supply is on and system pressure is adequate (20-90 psi). Clear any debris from the bubbler's outlet.
Uneven water distribution	Bubbler not level Partial obstruction	Ensure the bubbler is installed vertically and level. Check for and remove any partial obstructions from the nozzle.
Leak at connection point	Loose connection Damaged threads	Gently tighten the bubbler onto the riser. Inspect threads on both bubbler and riser for damage; replace if necessary.

7. SPECIFICATIONS

Model:

1402MX

Flow Rate:

0.50 GPM (Gallons Per Minute)

Pattern:

Full-circle, trickle

Operating Pressure Range:

20 to 90 psi (1.4 to 6.2 bar)

Recommended Watering Area:

1 to 3 feet diameter

Connection Type:

½" female thread (for ½" male riser)

Construction Material:

Corrosion-proof plastic and rubber

Included Accessory:

SR-050 ½" (15/21) bubbler filter screen

Item Weight:

0.32 ounces

8. WARRANTY & SUPPORT

For specific warranty information regarding your Rain Bird 1402MX bubbler, please refer to the official Rain Bird website or contact Rain Bird customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance, installation guidance, or to report any issues, please visit the [Rain Bird official website](#) or contact their customer service department. Contact details are typically available on the official website.

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.

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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.

Submit question