

K-Rain RPS75-NN

K-Rain RPS Rotor Sprinkler (Model RPS75-NN) Instruction Manual

Your guide to installation, operation, and maintenance.

PRODUCT OVERVIEW

The K-Rain RPS Rotor Sprinkler, Model RPS75-NN, is a gear-driven rotary sprinkler designed for efficient and adjustable lawn irrigation. It features a 4-inch pop-up height and offers a wide range of arc and distance adjustments to suit various landscape needs.



Image: Top view of the K-Rain RPS Rotor Sprinkler, showing the K-Rain logo and adjustment points on the cap.

Key Features:

- Rotary Gear Driven Sprinkler mechanism for smooth operation.

- Adjustable Arc from 80 to 360 degrees for precise watering patterns.
- 4 Inch Pop Up Height ensures clearance over turf.
- Adjustable Spray Distance ranging from 25 to 45 feet.

INSTALLATION AND SETUP

Proper installation is crucial for optimal performance of your K-Rain RPS Rotor Sprinkler. This sprinkler is designed for a 3/4-inch inlet connection.

Pre-Installation Checklist:

- Ensure you have the necessary tools: shovel, pipe wrench, thread sealant tape, and the K-Rain adjustment tool (often sold separately or included with multi-packs).
- Verify your irrigation system's water pressure is within the recommended operating range for rotor sprinklers.
- Plan the placement of your sprinkler heads to ensure adequate coverage and minimize overspray.

Installation Steps:

1. **Digging the Trench:** Dig a trench from your main water line to the desired sprinkler location. The trench should be deep enough to allow the top of the sprinkler to be flush with the ground when installed.
2. **Connecting to Lateral Line:** Connect the sprinkler to the lateral irrigation line using a 3/4-inch threaded fitting. Apply thread sealant tape to all threaded connections to prevent leaks.
3. **Positioning the Sprinkler:** Place the sprinkler in the trench, ensuring the top of the sprinkler head is level with the ground surface. Backfill the trench, compacting the soil around the sprinkler to secure it in place.
4. **Initial Water Test:** Briefly turn on the water supply to flush the lines and check for any leaks. Turn off the water before proceeding to adjustments.



Image: Side view of the K-Rain RPS Rotor Sprinkler in its extended, operating position.

OPERATION AND ADJUSTMENT

The K-Rain RPS Rotor Sprinkler allows for easy adjustment of both its spray arc and distance to customize your watering coverage.

Adjusting the Arc (Pattern):

The arc can be adjusted from 80 degrees (a narrow wedge) to a full 360 degrees (a complete circle). A special K-Rain adjustment tool is typically required for this process.

1. **Identify the Fixed Left Stop:** The sprinkler has a fixed left stop. This is the non-adjustable starting point of the spray pattern.
2. **Rotate the Nozzle:** Manually rotate the nozzle turret counter-clockwise until it stops at the fixed left stop.
3. **Set the Right Stop:** Insert the K-Rain adjustment tool into the arc adjustment slot (usually marked with a plus/minus symbol) on the top of the sprinkler. Turn the tool clockwise to increase the arc or counter-clockwise to decrease it. The sprinkler will rotate to show the new right stop.
4. **Verify Arc:** Turn on the water briefly to observe the spray pattern and make fine adjustments as needed.

Adjusting Spray Distance:

The spray distance can be adjusted from 25 to 45 feet. This is typically done by turning a screw located on the top of the sprinkler head.

- **Locate the Distance Adjustment Screw:** This screw is usually found near the nozzle opening on the top of the sprinkler.
- **Adjust Distance:** Using a flathead screwdriver, turn the screw clockwise to decrease the spray distance (the screw will partially block the water stream) or counter-clockwise to increase the distance.
- **Observe and Refine:** Turn on the water to check the spray distance and adjust further until the desired coverage is achieved.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your K-Rain RPS Rotor Sprinkler.

Regular Cleaning:

- **Check for Debris:** Periodically inspect the sprinkler head for any debris (grass clippings, dirt) that might obstruct the nozzle or prevent proper pop-up and rotation.
- **Clean Nozzle:** If the spray pattern is uneven, the nozzle may be partially clogged. Carefully remove any visible debris. If necessary, the nozzle can be removed for thorough cleaning, referring to K-Rain's specific nozzle removal instructions.

Winterization (for cold climates):

- **Drain System:** Before the first freeze, ensure all water is drained from your irrigation system, including the sprinkler heads, to prevent freeze damage.
- **Blow Out Lines:** For best results, use an air compressor to blow out the irrigation lines. Consult a professional if you are unsure about this process.

TROUBLESHOOTING

Here are solutions to common issues you might encounter with your K-Rain RPS Rotor Sprinkler.

| Problem | Possible Cause | Solution |
|--------------------------------|---|--|
| Sprinkler not rotating | Debris in gear drive; low water pressure; damaged gears. | Clean the sprinkler head and nozzle. Check system water pressure. If gears are damaged, replacement may be necessary. |
| Uneven spray pattern | Clogged nozzle; incorrect arc adjustment; worn nozzle. | Clean the nozzle. Re-adjust the arc setting. Consider replacing the nozzle if worn. |
| Sprinkler not popping up fully | Low water pressure; dirt/debris around riser; damaged spring. | Check system water pressure. Clear debris from around the sprinkler body. If spring is damaged, the sprinkler head may need replacement. |
| Water leaking from base | Loose connection; damaged seal. | Tighten the connection to the lateral line, ensuring thread sealant tape is properly applied. If the seal is damaged, the sprinkler head may need replacement. |

PRODUCT SPECIFICATIONS

| Specification | Detail |
|--------------------------------|--|
| Brand | K-Rain |
| Model Number | RPS75-NN |
| Inlet Connection Size | 3/4-Inch (Note: Product title indicates 3/4-inch, which is a standard sprinkler connection. The specification listing of '2.5 Inches' is likely a data error and refers to a different dimension.) |
| Pop-Up Height | 4 Inches |
| Adjustable Arc | 80 to 360 degrees |
| Spray Distance | 25 to 45 Feet |
| Material | Plastic |
| Product Dimensions (L x W x H) | 2.5 x 2.5 x 7 inches |
| Item Weight | 10.4 ounces |
| UPC | 609963112944, 609963125470 |

Note: Specifications are subject to change without notice. Always refer to the product packaging for the most current information.

WARRANTY AND SUPPORT

For specific warranty information regarding your K-Rain RPS Rotor Sprinkler, please refer to the documentation included with your purchase or visit the official K-Rain website.

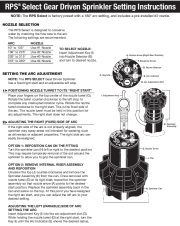
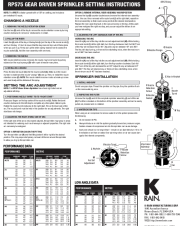
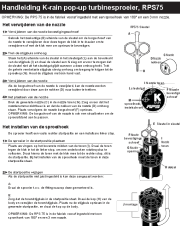
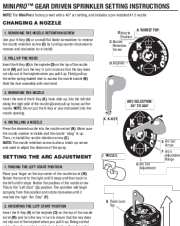
If you require technical assistance, have questions about installation, operation, or need to troubleshoot an issue not covered in this manual, please contact K-Rain Customer Support:

- **K-Rain Official Website:** www.krain.com
- **Customer Service Contact:** Refer to the website for current contact methods (phone, email, support forms).

Always ensure you have your product model number (RPS75-NN) and purchase date available when contacting support.

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Related Documents - RPS75-NN

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|---|--|
|  | <p>K-Rain RPS Select Gear Driven Sprinkler: Setting and Adjustment Guide</p> <p>Comprehensive guide to setting up and adjusting the K-Rain RPS Select Gear Driven Sprinkler, including nozzle selection, arc adjustment, installation, and performance data.</p> |
|  | <p>K-Rain RPS75 Gear Driven Sprinkler Setting and Installation Instructions</p> <p>A comprehensive guide detailing the setup, adjustment, and installation procedures for the K-Rain RPS75 Gear Driven Sprinkler, including nozzle replacement, arc setting, performance data, and winterization tips.</p> |
|  | <p>Handleiding K-rain RPS75 Pop-up Turbinesproeier</p> <p>Gedetailleerde handleiding voor de K-rain RPS75 pop-up turbinesproeier, inclusief installatie, nozzle-aanpassing, sproeihoekinstellingen en prestatiegegevens.</p> |
|  | <p>MINIPRO™ Gear Driven Sprinkler Setting Instructions and Performance Data</p> <p>Comprehensive guide to setting up and adjusting the K-Rain MINIPRO™ gear-driven sprinkler, including nozzle changing, arc adjustment, installation, winterization tips, and performance specifications.</p> |



[K-Rain 2012 Product Guide: Irrigation Solutions](#)

Explore K-Rain's comprehensive 2012 product guide featuring a wide range of high-quality irrigation rotors, sprays, valves, and controllers for residential and commercial applications. Discover detailed specifications and performance data.



[K-Rain KRX6 6-Zone Indoor Wi-Fi Irrigation Controller User Manual](#)

A comprehensive user manual for the K-Rain KRX6 6-Zone Indoor Wi-Fi Irrigation Controller, covering installation, setup, operation, and troubleshooting.