

## K-Rain AMZ-11003-RCW-NN-2PACK

# K-Rain ProPlus 3/4" Reclaimed Water (RCW) Gear Drive Rotor Sprinkler User Manual

Model: AMZ-11003-RCW-NN-2PACK | Brand: K-Rain

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your K-Rain ProPlus 3/4" Reclaimed Water (RCW) Gear Drive Rotor Sprinkler. Designed for efficient and effective watering of lawns and landscapes, this sprinkler is specifically engineered for use with reclaimed, septic, or non-potable water irrigation systems, indicated by its distinctive purple cap and collar. Proper use and care will ensure optimal performance and longevity of your sprinkler system.

## 2. PRODUCT OVERVIEW

The K-Rain ProPlus rotor sprinkler is a robust and advanced irrigation component featuring a 4 1/2" pop-up height, a spray distance ranging from 22 to 50 feet, and an adjustable arc from 40° to a continuous 360°. It is designed for seamless integration into existing irrigation systems, including compatibility with Rain Bird 1800 cans.

### Key Features:

- **Adjustable Spray Distance:** 22' to 50' radius for versatile coverage.
- **Adjustable Arc:** From 40° to continuous 360° for precise watering.
- **Reclaimed Water Use (RCW):** Identified by purple cap and collar, suitable for non-potable water systems.
- **Pressure Rating:** Operates efficiently within 20 - 70 PSI.
- **Water Efficiency:** Designed to conserve water while ensuring proper coverage.
- **Compatibility:** Seamlessly fits into Rain Bird 1800 cans.
- **Arc Memory Clutch:** Helps maintain arc settings even after external force.

### Product Components:



Figure 2.1: K-Rain ProPlus Rotor Sprinklers and Nozzle Set. This image displays two K-Rain ProPlus rotor sprinklers, identifiable by their black bodies and purple tops, alongside a green plastic tree of various nozzle sizes. The purple color signifies their use with reclaimed water systems.



Figure 2.2: Top View of Sprinkler Head. This close-up shows the top of the K-Rain ProPlus sprinkler head, featuring degree markings (40, 90, 180, 270, 360) for arc adjustment and the central nozzle opening with an adjustment screw.

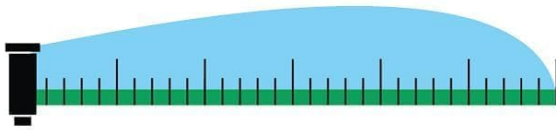


Figure 2.3: Extended Sprinkler View. This image illustrates the K-Rain ProPlus sprinkler in its fully extended, pop-up position, revealing the internal mechanism and the 3/4" inlet at the bottom.

# ProPlus<sup>®</sup>

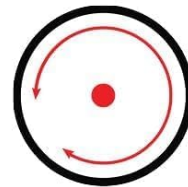
## RADIUS

**22' – 50'**



## ARC ADJ RANGE

**40° to cont. 360°**



## FLOW RANGE

**0.5 – 10.0 GPM**



## INLET SIZE

**3/4"**



Figure 2.4: ProPlus Performance Specifications. This diagram visually summarizes the key performance characteristics of the ProPlus sprinkler, including its adjustable radius, arc range, flow rate in gallons per minute (GPM), and inlet size.

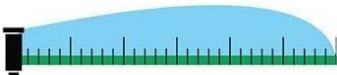



COMPARISON CHART				
				
	RADIUS	INLET	GPM	ARC RANGE
MiniPro	18'–33'	1/2"	0.8–3.8	40°–360°
RPS 50	18'–33'	1/2"	0.8–3.8	40°–360°
RPS 75	22'–51'	3/4"	0.7–8.3	40°–360°
RPS 75i	26'–48'	3/4"	0.9–9.7	40°–360°
RPS Select	33'–46'	3/4"	1.3–6.8	40°–360°
ProPlus	22'–50'	3/4"	0.5–10.0	40° to cont. 360°
SuperPro	26'–46'	3/4"	0.8–11.1	40° to cont. 360°
ProSport	43'–77'	1"	5.1–32.5	40° to cont. 360°

Figure 2.5: K-Rain Sprinkler Comparison Chart. This chart provides a comparative overview of various K-Rain rotor sprinkler models, detailing their respective radius, inlet size, flow rate (GPM), and arc range, allowing for easy comparison of specifications.

Product Video:

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Video 2.1: ProPlus Rotor Sprinkler Overview. This video provides a visual demonstration of the K-Rain ProPlus rotor sprinkler in operation, highlighting its features and spray capabilities in a real-world setting.

3. SETUP AND INSTALLATION

Before beginning installation, ensure your irrigation system is turned off and depressurized. The K-Rain ProPlus rotor is designed for straightforward installation, often fitting into existing 3/4" connections and compatible with Rain Bird 1800 cans.

3.1 Nozzle Installation

The ProPlus rotor comes with a selection of nozzles to achieve various spray patterns and distances. It is crucial to install the correct nozzle before placing the sprinkler in the ground for easier access.

1. Identify the desired nozzle based on your watering needs (e.g., spray distance, flow rate). Refer to the nozzle chart provided with your product or K-Rain's official documentation for guidance.
2. Carefully remove the top cap of the sprinkler by unscrewing it counter-clockwise.
3. Locate the nozzle slot inside the sprinkler.
4. Insert the chosen nozzle firmly into the slot. Ensure it is seated correctly and securely.
5. Replace the top cap, screwing it clockwise until snug. Do not overtighten.

**Important:** *Installing the nozzle before final placement in the ground simplifies the process significantly.*

## 3.2 Sprinkler Placement

1. Dig a hole deep enough to accommodate the sprinkler body, ensuring the top of the sprinkler will be flush with the ground level when installed.
2. Connect the 3/4" inlet of the sprinkler to your irrigation pipe. Use appropriate fittings and thread sealant to ensure a watertight connection.
3. Backfill the soil around the sprinkler, compacting it gently to secure the unit in place. Ensure the sprinkler remains vertical and its top is level with the surrounding terrain.

## 4. OPERATING INSTRUCTIONS

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Once installed, the K-Rain ProPlus rotor allows for easy adjustment of its spray arc and distance to optimize watering coverage.

### 4.1 Arc Adjustment

The arc can be adjusted from 40° to a continuous 360° using the adjustment screw located on the top of the sprinkler head. The sprinkler features arc set degree markings for precise setting.

1. Turn on your irrigation system to allow the sprinkler to pop up and begin spraying.
2. Using a K-Rain adjustment tool or a small flat-head screwdriver, insert it into the adjustment screw slot on the top of the sprinkler.
3. To increase the arc, turn the screw clockwise. To decrease the arc, turn it counter-clockwise.
4. Observe the spray pattern and adjust until the desired arc is achieved. The arc memory clutch ensures that the set arc is maintained even if the turret is forced past its stop.

### 4.2 Spray Distance Adjustment

The spray distance is primarily determined by the installed nozzle. Fine-tuning can be done using the radius reduction screw.

1. Locate the radius reduction screw on the top of the sprinkler head, typically near the nozzle.
2. Turn the screw clockwise to reduce the spray distance. This will partially obstruct the water stream.
3. Turn the screw counter-clockwise to increase the spray distance (up to the maximum allowed by the installed nozzle).

## 5. MAINTENANCE

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Regular maintenance ensures the optimal performance and longevity of your K-Rain ProPlus rotor sprinkler.

- **Regular Cleaning:** Periodically inspect the sprinkler head for debris, dirt, or mineral buildup, especially around the nozzle and pop-up stem. Clean with a soft brush and water.
- **Check for Clogs:** If the spray pattern is uneven or reduced, the nozzle may be partially clogged. Turn off the water,

remove the nozzle (refer to Section 3.1), and clear any obstructions.

- **Winterization:** In colder climates, ensure your irrigation system, including sprinklers, is properly winterized to prevent freeze damage. Consult a local irrigation professional if unsure.
- **Inspect for Leaks:** Regularly check around the base of the sprinkler for any signs of leaks, which could indicate a loose connection or damaged seal.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your K-Rain ProPlus rotor sprinkler.

### 6.1 Sprinkler Not Popping Up

- **Low Water Pressure:** Ensure your system's water pressure is within the recommended 20-70 PSI range. Check for open valves or other sprinklers running simultaneously that might be reducing pressure.
- **Debris in Casing:** Dirt or debris inside the sprinkler casing can obstruct the pop-up mechanism. Turn off water, carefully remove the sprinkler, and clean the internal components.
- **Damaged Spring:** If the spring mechanism is damaged, the sprinkler may not pop up. This typically requires replacement of the sprinkler head.

### 6.2 Uneven Spray Pattern or Reduced Distance

- **Clogged Nozzle:** The most common cause. Turn off water, remove the nozzle, and clean any debris.
- **Incorrect Nozzle:** Verify that the correct nozzle for your desired spray distance and flow rate is installed.
- **Radius Reduction Screw:** Check if the radius reduction screw is turned in too far, restricting the spray. Adjust it counter-clockwise to increase distance.
- **Low Water Pressure:** Insufficient pressure will result in a weak and uneven spray.

### 6.3 Difficulty Adjusting Arc

- **Improper Tool:** Ensure you are using a K-Rain adjustment tool or a small, appropriately sized flat-head screwdriver.
- **Debris in Adjustment Mechanism:** Small particles can sometimes impede the adjustment screw. Gently try to clear any visible debris.
- **Arc Memory Clutch:** The arc memory clutch is designed to prevent damage if the turret is forced. If the arc seems stuck, try rotating the turret manually to its limits to reset the clutch, then attempt adjustment again.

## 7. SPECIFICATIONS

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Feature	Detail
Brand	K-Rain
Model Number	AMZ-11003-RCW-NN-2PACK
Color	Purple, Black
Material	Plastic
Style	Rotor
Maximum Pressure	70 Pound per Square Inch (PSI)
Maximum Flow Rate	10 Gallons Per Minute (GPM)

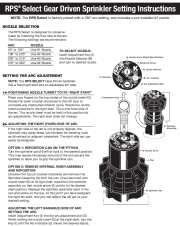
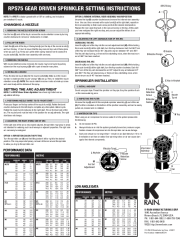
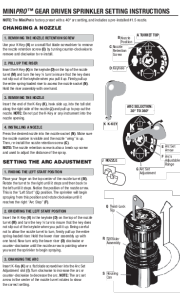


Feature	Detail
UPC	306031491597
Number of Items	2 (Pack)
Item Weight	1.65 pounds
Country of Origin	USA

## 8. WARRANTY AND SUPPORT

K-Rain stands behind the quality of its products. For specific warranty information regarding your ProPlus rotor sprinkler, please refer to the documentation included with your purchase or visit the official K-Rain website. For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact K-Rain customer service. You can also find additional resources and product information by visiting the [K-Rain Store on Amazon](#) or their official company website.

### Related Documents - AMZ-11003-RCW-NN-2PACK

	<p><a href="#">K-Rain RPS Select Gear Driven Sprinkler: Setting and Adjustment Guide</a></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><a href="#">K-Rain RPS75 Gear Driven Sprinkler Setting and Installation Instructions</a></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><a href="#">MINIPRO™ Gear Driven Sprinkler Setting Instructions and Performance Data</a></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.



### [K-Rain PRO-LC Wi-Fi Irrigation Controller Manual](#)

Installation, programming, and operation guide for the K-Rain PRO-LC Wi-Fi Irrigation Controller. Learn about features like Wi-Fi connectivity, EPA WaterSense approval, scheduling, and system management.