

R-50 Rotor

The Rain Bird R-50 family delivers maximum performance and reliability with the industry's only non-strippable drive combined with rapid-reset Memory Arc®. The R-50 rotor also offers the option of superior coverage with the series of Rain Curtain™ nozzles, or maximum distance of throw with the series of Radius+ (original standard) nozzles. In addition, a "Quick Change" design makes nozzle changing simple.

But there is more to the R-50 rotor than just great nozzles. An adjustable bypass lets you quickly adjust water flow into the rotor. The R-50's water-lubricated drive is non-strippable and its vandal-resistant design protects it in the most trying installations.

The R-50 rotor can work in non-reversible, full- or part-circle operation, all in one unit.

The R-50 family from Rain Bird — the "bully proof" rotor.

Features

- Rapid-reset, vandal-resistant Memory Arc® quickly and automatically returns nozzle stream to set arc if tampered with.
- Water-lubricated, non-strippable, environmentally-sound drive provides durability, longer product life, and prevents breakage of mechanism.
- Unique Quick Flush™ action cleans stem on initial pop-up and final retraction.
- Rain Curtain™ nozzles reduce misting, decrease dry spots, and allow for even, "close-in" watering.
- Radius+ nozzles provide for maximum radius.
- Adjustable bypass allows flow adjustment to optimize drive at varying pressure.
- Full- or part-circle capability in one unit.
- Easy arc adjustment requires no tools.
- Inlet filter screen and dual spring bearings ensure dirty water performance.
- 3/4" (9,2 cm) pop-up height.
- Low angle (11°) body available.
- Optional internal Seal-A-Matic™ (SAM) prevents puddling and erosion caused by low-head drainage.

- Optional, durable, two-piece rubber cover for added safety sold separately (standard on SAM models).
- Vandal-resistant, stainless steel locking set screw at cap threads on SAM models.
- Low-pressure and low-gallage operation.
- Patented, pressure-activated, multi-function wiper seal protects internal assembly from debris to ensure positive pop-up and retraction.
- Radius adjustment screw allows up to 25% radius reduction without changing nozzles.
- Arc adjustment 25° to 350° or full-circle.
- Five-year trade warranty.
- Optional, non-potable water cap for easy identification of reclaimed water sold separately.

Operating Range

- Precipitation rate: 0.25 to 1.32 inches per hour (6,6 to 32,1 mm/h)
- Radius: 21 to 50 feet (6,4 to 15,2 m)
- Pressure: 25 to 65 psi (1,7 to 4,5 Bars)
- Flow: 1.5 to 9.4 GPM (0,36 to 2,09 m³/h; 0,10 to 0,58 l/s)

Specifications

- 3/4" (20/27) FNPT bottom inlet
- Radius+ and Rain Curtain™ nozzles: 1.5-black 2.0-brown; 3.0-gray; 4.0-yellow; 6.0-green
- Nozzle outlet trajectory is 23°.
- LA nozzle outlet trajectory is 11°.
- Optional SAM holds back up to 8 feet (2,4 m) of elevation change.

Dimensions

- Overall height: 7 1/4" (18,4 cm)
- Pop-up height 3 5/8" (9,2 cm)
- Exposed surface diameter: 1 1/4" (4,4 cm)
Note: Overall body height is measured popped down.

Models

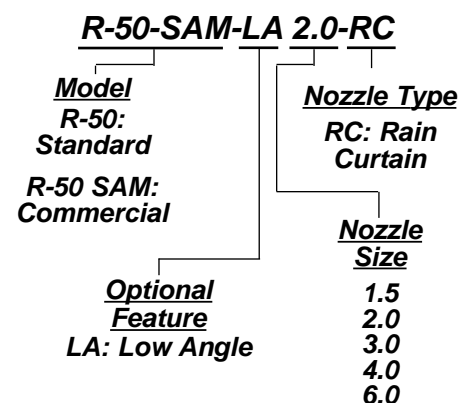
- R-50, R-50-SAM
- R-50-LA, R-50-SAM-LA



Available Nozzles

- Standard trajectory—Superior close-in watering
 - 1.5, 2.0, 3.0, 4.0, and 6.0 Rain Curtain™ nozzles
- Standard trajectory—Maximum radius
 - 1.5, 2.0, 3.0, 4.0, and 6.0 Radius+ nozzles
- Low angle trajectory—Superior close-in watering
 - 1.5, 2.0, 3.0, 4.0, and 6.0 Rain Curtain nozzles
- Low angle trajectory—Maximum radius
 - 1.5, 2.0, 3.0, 4.0, and 6.0 Radius+ nozzles

How to Specify/Order:



R-50 Full- or Part-Circle Pop-Up Rotor Sprinkler

The full- or part-circle pop-up rotor sprinkler shall be a single-nozzle, water-lubricated, turbine drive type with internal impact speed reduction, capable of covering a _____ foot radius (FT. RAD.) at _____ pounds per square inch (psi) or with a discharge rate of _____ gallons per minute (GPM) or (l/s; m³/h). The part-circle sprinkler shall have adjustable arc coverage from 25 to 350 degrees. The sprinkler shall not reverse direction during continuous operation in the full-circle mode. Arc adjustment shall not require any tools.

The sprinkler shall have an easy "quick change" nozzle configuration and built-in multiple flow by-pass settings.

The sprinkler shall have a non-strippable drive mechanism and permit manual rotation of the pop-up stem in any direction while the rotor is on or off. This shall have absolutely no effect on either the drive or the set arc. Once the manual rotation is terminated, the sprinkler shall automatically return the water stream to its preset arc.

The sprinkler shall have a pressure-activated multi-function, soft elastomer wiper seal that positively seals against the nozzle flange to keep debris out of the rotor and to clean debris from the stem as it retracts. This wiper seal shall prevent the sprinkler from sticking up, and be capable of sealing the sprinkler cap to the sprinkler body under normal operating pressures.

The sprinkler shall have a strong, stainless steel retract spring for positive pop-down. Pop-up height for the standard, commercial, and low angle units shall be 3 5/8" (9,2 cm). The sprinkler's overall height shall be 7 1/4" (18,4 cm)

and it shall have a 3/4" (20/27) (FNPT) bottom inlet.

The sprinkler shall have a screen attached to the drive housing to filter inlet water and prevent the nozzle from clogging.

The sprinkler shall have a matched precipitation rate (MPR), color-coded nozzle with stainless steel adjusting screw capable of reducing the radius up to 25%. The angle of trajectory shall be 23 degrees.

The sprinkler shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

R-50-LA Full- or Part-Circle Low Angle Pop-Up Rotor Sprinkler Optional Feature Specifications

When so indicated on the design, the full- or part-circle low angle version rotor sprinkler shall have all the specifications of the standard version with the only difference being the rotor's capability of a low 11 degree angle of trajectory for superior wind resistance. Its radius shall have the capability of being reduced down to 21 feet (6,4 m) using a 1.5 GPM (0,10 l/s; 0,37 m³/h) nozzle with the diffuser pin fully engaged. The rotor's overall height shall be 7 1/4" (18,4 cm).

The sprinkler shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora California

R-50-SAM Full- or Part-Circle Commercial Pop-Up Rotor Sprinkler with Seal-A-Matic™ Optional Feature Specifications

When so indicated on the design, the full- and part-circle commercial version rotor sprinkler

shall have all the specifications of the standard version with a durable, two-piece rubber cover to provide added safety and security. A stainless steel locking set screw at cap threads shall assure maximum vandal resistance and a Seal-A-Matic™ (SAM) device built onto the inlet screen shall hold back up to 8 feet (2,4 m) of elevation change to prevent puddling, run-off, and erosion caused by low-head drainage. The rotor's overall height shall be 7 1/2" (19,1 cm). The sprinkler shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

R-50-SAM-LA Full- or Part-Circle Commercial Low Angle Pop-Up Rotor Sprinkler with Seal-A-Matic™ Optional Feature Specifications

When so indicated on the design, the full- or part-circle low angle commercial version rotor sprinkler shall have all the specifications of the standard version with a low 11 degree angle of trajectory for superior wind resistance. Its radius shall have the capability of being reduced down to 21 feet (6,4 m) using a 1.5 GPM (0,10 l/s; 0,37 m³/h) nozzle with the diffuser pin fully engaged.

The low angle commercial version rotor shall also include a durable, two-piece rubber cover to provide added safety and security. A stainless steel locking set-screw at cap threads shall assure maximum vandal resistance and a Seal-A-Matic™ (SAM) device built onto the inlet screen shall hold back 8 feet (2,4 m) of elevation change to prevent puddling, run-off and erosion caused by low-head drainage. The rotor's overall height shall be 7 1/2" (19,1 cm).

The sprinkler shall be as manufactured by Rain Bird Sprinkler Mfg. Corp., Glendora, California.

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