

### Rain Bird 3500 Series Rotors

“Easy to use, tough to beat”

The 3500 Series Rotor is an easy to use short to mid-range ½” gear-drive rotor, offering value and convenience for residential applications. Utilizing a simple flat-bladed screwdriver, the 3500’s arc adjustment is quick and easy.

This versatile rotor offers an attachable nozzle tree with six superior performing Rain Curtain nozzles and the convenience of reversing full and part circle operation (up to 360 degrees) in one unit. Plus, a nozzle removal feature and easily removable filter screen makes maintenance a breeze.

All of this, an affordable price and a 3-year factory warranty makes the 3500 Series one rotor that is easy to use, easy to buy and tough to beat!

#### Features

The 3500 Series Rotor is available in a 4" model.

- Top-adjust arc adjustment requiring only a flat bladed screwdriver
- Three-year trade warranty
- Water-lubricated gear-drive design for durable, reliable operation
- 40- 360° part circle arc rotation and reversing full circle rotation in one
- An attachable nozzle tree of six Rain Curtain nozzles.
- Radius adjustment screw allows up to 35% radius reduction without changing nozzles
- True 4" (10,2 cm) pop-up (measured from center of nozzle)
- Quick Check Arc/Fast Forward
- Dual action, positive stop wiper seal protects internals from debris and assures positive pop-up and retraction
- Self-adjusting stator does not require replacement when changing nozzles
- Easily removable filter screen
- Nozzle removal feature
- Arc setting factory preset at 180° for installation convenience
- Optional non-potable cover for easy identification of reclaimed water

- Optional Seal-A-Matic™ (SAM™) check valve holds up to 7 feet (2,1 m) of elevation change, to prevent puddling and erosion caused by low head drainage

#### Operating Range

- Precipitation rate: .37 to .72 inches per hour (9 to 18 mm/h)
- Radius: 15 to 35 feet (4,6 to 10,7 m)
- Radius may be reduced up to 35% with Radius Reduction Screw
- Pressure: 25-55 psi (1,7 to 3,8 bar)
- Flow Rate: .54 to 4.6 gpm (12 to 1,04 m³/h)

#### Specifications

- ½" NPT (20/27) female bottom threaded inlet
- Full and part circle adjustment 40° - 360°

#### Dimensions

- Pop up height: 4" (10,2 cm)
- Overall body height: Shrub: 7" (17,8 cm); 4": 6.6" (16.8 cm)
- Exposed surface diameter: 1.16" (2,9 cm)

Note: Pop-up height measured from cover to center of nozzle. Overall body height is measured popped down.

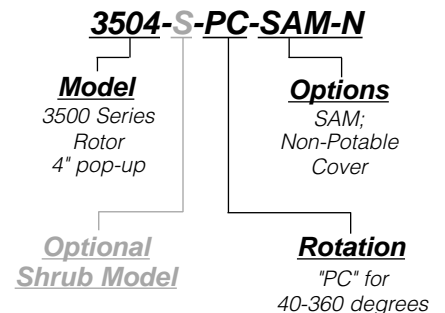
#### Models

Part circle units (PC) are adjustable from 40 - 360 degrees.

- 3504-PC
- 3504-PC-N
- 3504-PC-SAM
- 3504-PC-SAM-N
- 3500-S-PC
- 3500-S-PC-SAM
- 3500-S-PC-SAM-NP



#### How to Specify/Order:



Note: 3504 will soon be available with a pre-installed nozzle.



## 3500 Series Rotor Technical Specification

### Model: 3504-PC, Part and Reversing Full Circle Sprinkler

The part and reversing full circle sprinkler shall be a single stream, water-lubricated, gear-drive type capable of covering a \_\_\_\_\_ radius at \_\_\_\_\_ pounds per square inch with a discharge rate of \_\_\_\_\_ gallons per minute (GPM). The sprinkler shall have an adjustable arc coverage of 40 to 360 degrees. Arc adjustment shall be performed with or without the sprinkler in operation and shall require only a flat-blade screwdriver.

#### Nozzle Performance

Pressure psi	Nozzle	Radius ft	Flow GPM	Square Precip. sq/ft	Triangular Precip. sq/ft
2.0	3	18.0	1.08	65.7	
2.0	20	5.77	0.20	6.81	
3	10	10	1.04	3.98	9.5
3	20	3.07	0.37	3.81	
3	28	2.17	0.6	38.1	
3	3	36.7	30.4	3.81	
3.5	17	3.47	3.4	30.3	
3.5	25	3.30	6.80	6.81	
3	16	22	1.29	6.81	65.4
3	20	1.89	3.8	65.4	
3	30	26.9	6.81	6.81	
3.5	17	3.77	30.7	30.3	
3.5	25	1.98	3.46	30.3	
3	19	24	1.48	3.46	30.1
3	20	1.80	30.1	30.3	
3	18	3.88	3.48	3.48	
3	3	6.12	3.8	3.8	
3.5	18	6.8	18.1	33.3	
3.5	22	4.18	3.27	33.4	
3.5	28	1.8	18.5	3.4	
3	28	2.3	18.3	3.81	
3	10	3.8	3.47	3.71	
4	3	3.40	3.72	3.81	

The sprinkler shall have a pressure activated, multi-function wiper seal that positively seals against the pop-up stem to keep debris out of the rotor and to clean debris from the pop-up stem as it retracts.

The wiper seal shall prevent the sprinkler from sticking up, and be capable of sealing the sprinkler cap to sprinkler body under normal operating pressures.

The sprinkler shall have a screen installed in the pop-up stem to filter inlet water, protect the drive from clogging, and to simplify removal for cleaning and flushing of the system. The sprinkler shall have a 1/2" (FNPT) bottom inlet.

The sprinkler shall have a strong stainless steel retract spring for positive pop-down. Pop-up height as measured from the top of the cap, at normal installation, to the middle of the nozzle shall be 4" inches (10, 2cm). The rotor's overall height shall be 6.6 inches (16,8 cm).

The sprinkler shall have six interchangeable Rain Curtain nozzles for superior close in watering. The angle of trajectory of the nozzle bore shall be no more than 25 degrees and no less than 10 degrees. The stainless steel adjusting screw is capable of reducing the radius up to 35%.

The sprinkler shall be as manufactured by Rain Bird Corporation, Glendora, California.

### 3500 Series Shrub Model Part and Reversing Full Circle Sprinkler (SAM)

When so indicated on the design, the shrub model shall contain all of the specifications of the standard 3500 series rotor plus a locking screw to fasten the shrub unit to the riser. Additionally, the shrub base unit will feature Secure Ribs™ that are designed to assist in the staking of the shrub model if so specified on the design. When the Seal-A-Matic™ (SAM) model is indicated on the design, the device shall hold back at least 7' (2.1 m) of elevation change to prevent puddling, run-off and erosion caused by low head drainage. As well the SAM unit shall experience no pressure loss during normal operation.

Metric Data

Pressure bars	Nozzle	Radius m	Flow m <sup>3</sup> /hr	Flow l/s	Square Precip. m <sup>2</sup> /hr	Triangular Precip. m <sup>2</sup> /hr
1.2	3	5.78	4.0	1.11	12	1.1
1.2	20	1.7	0.27	0.06	8	1.1
1.7	10	7.9	0.24	0.07	10	1.1
1.7	20	2.2	0.34	0.09	9	1.1
1.7	3	8.9	0.26	0.07	15	1.0
1.7	3	3.3	0.37	0.10	10	1.0
1.7	3.18	3.8	0.13	0.04	1.3	1.1
1.7	1.8	3.7	0.19	0.05	1.0	1.1
2.4	1.8	2.6	0.26	0.07	1.1	1.2
2	3.7	0.31	0.09	0.02	1.0	1.2
3	3.1	0.13	0.18	0.05	1.0	1.0
3	3	0.7	0.21	0.06	1.0	1.0
3.5	1.2	1.2	0.18	0.05	1.2	1.0
3.5	1.8	0.9	0.21	0.06	1.0	1.2
3.5	1.8	7.9	0.26	0.07	1.2	1.1
3	2	2.2	0.26	0.07	1.2	1.0
3	3.4	0.40	0.17	0.05	1.0	1.0
4	16.7	0.35	0.33	0.09	1.0	1.0
3.15	3.2	0.17	0.18	0.05	1.0	1.0
1.6	3.4	0.24	0.07	0.02	1.0	1.0
1.8	2.5	0.32	0.08	0.02	1.0	1.1
2	3.2	0.31	0.12	0.03	1.0	1.0
3	3.2	0.37	0.19	0.05	1.0	1.0
3	19.6	0.30	0.18	0.05	1.0	1.0
3.75	3.2	0.17	0.08	0.02	1.0	1.0
3.3	3.8	0.21	0.07	0.02	1.0	1.1
3.8	7.9	0.20	0.19	0.05	1.0	1.0
2	3.2	0.37	0.13	0.03	1.0	1.0
3	3.8	0.21	0.08	0.02	1.0	1.0
4	16.7	0.30	0.18	0.05	1.0	1.0
3.75	3.5	0.17	0.15	0.04	1.0	1.0
1.6	3.7	0.27	0.07	0.02	1.0	1.1
1.8	2.8	0.37	0.16	0.04	1.0	1.0
2	3.8	0.21	0.18	0.05	1.0	1.0
3	3.8	0.21	0.18	0.05	1.0	1.0
2	19.7	0.34	0.19	0.05	1.0	0.7

Precipitation rates calculated at 50% diameter "head to head" spacing, half circle operation.

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