

3500 Series Rotors

Technical Specifications



The 3500 Series Rotor is an easy to use short to mid-range ½” gear-drive rotor, offering value and convenience for smaller turf areas and densely planted landscapes. 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°) in one unit. Plus, a nozzle removal feature and easily removable filter screen makes maintenance a breeze.

All of this makes the 3500 Series one rotor that is easy to use, easy to buy and tough to beat!

FEATURES:

- Arc adjustment requires only a flat bladed screwdriver
- 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
- Optimized for short to mid-range distances
- 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
- Easily removable filter screen for maintenance purposes
- Arc setting factory preset at 180° for installation convenience
- Seal-A-Matic™ (SAM) check valve models hold back up to 7 ft (2.1 m) of elevation change, to prevent puddling and erosion caused by low head drainage
- Standard rubber cover
- Self-cleaning arc-adjustment screw
- Three-year trade warranty

OPERATING RANGE:

Precipitation Rate
0.37 to 0.83 in/hr (9 to 21 mm/h)

Flow Rate
0.54 to 4.6 gpm (2.0 to 17.4 l/m)

Radius
15 to 35 ft (4.6 to 10.7 m)
Radius may be reduced up to 35% with Nozzle Retention Screw

Pressure
25 to 55 psi (1.7 to 3.8 bar)

SPECIFICATIONS:

- ½” NPT female bottom threaded inlet
- Full- and part-circle adjustment 40°–360°

DIMENSIONS:

Pop-up Height
4” (10.2 cm)

Overall Body Height
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.

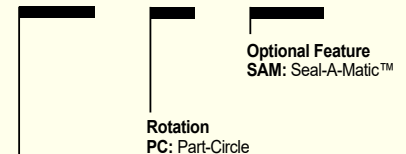
MODELS:

Part-circle units (PC) are adjustable from 40°–360°

- 3504-PC
- 3504-PC-SAM
- 3500-S-PC-SAM

How To Specify

3504 - PC - SAM



Model
3504: 3500 Series Rotor with 4” pop-up

3500 SERIES NOZZLE PERFORMANCE

PRESSURE (PSI)	NOZZLE	RADIUS (FT)	FLOW (GPM)	■	▲
				PRECIP (IN/H)	PRECIP (IN/H)
25	0.75	15	0.54	0.46	0.53
	1.0	20	0.77	0.37	0.43
	1.5	23	1.06	0.39	0.45
	2.0	27	1.40	0.37	0.43
	3.0	29	2.17	0.50	0.57
4.0	31	2.97	0.59	0.69	
35	0.75	17	0.67	0.45	0.52
	1.0	21	0.92	0.40	0.46
	1.5	23	1.28	0.47	0.54
	2.0	27	1.69	0.45	0.52
	3.0	31	2.60	0.52	0.60
4.0	33	3.58	0.63	0.73	
45	0.75	17	0.77	0.51	0.59
	1.0	21	1.06	0.46	0.53
	1.5	24	1.48	0.49	0.57
	2.0	27	1.93	0.51	0.59
	3.0	31	3.00	0.60	0.69
4.0	35	4.13	0.65	0.75	
55	0.75	18	0.85	0.51	0.58
	1.0	22	1.18	0.47	0.54
	1.5	24	1.65	0.55	0.64
	2.0	28	2.15	0.53	0.61
	3.0	32	3.25	0.61	0.71
4.0	35	4.60	0.72	0.83	

Precipitation rates based on half-circle operation

- Square spacing based on 50% diameter of throw
- ▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1.

3500 SERIES NOZZLE PERFORMANCE METRIC

PRESSURE (BAR)	NOZZLE	RADIUS (M)	FLOW (M ³ /H)	FLOW (L/M)	■	▲
					PRECIP (MM/H)	PRECIP (MM/H)
1.7	0.75	4.6	0.12	2.04	12	14
	1.0	6.1	0.17	2.91	9	11
	1.5	7.0	0.24	4.01	10	11
	2.0	8.2	0.32	5.30	9	11
	3.0	8.8	0.49	8.21	13	15
4.0	9.4	0.67	11.24	15	17	
2.0	0.75	4.8	0.13	2.24	12	13
	1.0	6.2	0.19	3.14	10	11
	1.5	7.0	0.26	4.35	11	12
	2.0	8.2	0.34	5.74	10	12
	3.0	9.1	0.53	8.87	13	15
4.0	9.7	0.73	12.17	16	18	
2.5	0.75	5.2	0.16	2.58	12	13
	1.0	6.4	0.21	3.55	10	12
	1.5	7.0	0.30	4.94	12	14
	2.0	8.2	0.39	6.51	12	13
	3.0	9.4	0.60	10.03	13	16
4.0	10.1	0.83	13.82	16	19	
3.0	0.75	5.2	0.17	2.86	13	15
	1.0	6.4	0.24	3.93	12	13
	1.5	7.3	0.33	5.49	12	14
	2.0	8.2	0.43	7.17	13	15
	3.0	9.4	0.67	11.13	15	17
4.0	10.6	0.92	15.32	16	19	
3.5	0.75	5.4	0.19	3.09	13	15
	1.0	6.6	0.26	4.27	12	14
	1.5	7.3	0.36	5.97	13	15
	2.0	8.4	0.47	7.79	13	15
	3.0	9.6	0.71	11.90	15	18
4.0	10.7	1.00	16.66	18	20	
3.8	0.75	5.5	0.19	3.22	13	15
	1.0	6.7	0.27	4.47	12	14
	1.5	7.3	0.37	6.25	14	16
	2.0	8.5	0.49	8.14	13	15
	3.0	9.8	0.74	12.30	16	18
4.0	10.7	1.04	17.41	18	21	



SPECIFICATIONS:**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°. Arc adjustment shall be performed with or without the sprinkler in operation and shall require only a flat-blade screwdriver.

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 ½" (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 in (10.2 cm). The rotor's overall height shall be 6.6 in (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° and no less than 10°. The stainless steel adjusting screw is capable of reducing the radius up to 25%.

The sprinkler shall have a rubber cover and a self-cleaning arc-adjustment screw.

The sprinkler shall be as manufactured by Rain Bird Corporation.

3500 Series Part- and Reversing Full-Circle Sprinkler (SAM)

When the Seal-A-Matic (SAM) model is indicated on the design, the device shall hold back at least 7 ft (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.

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