

Rotors

Introduction

Spray Bodies

Spray Nozzles

Rotors

Valves

Controllers

Central Controls

Landscape Drip

Pumps & Filtration

Drainage Products

Resources



"Once my customers actually see the difference Rain Curtain nozzles make, they won't settle for anything but Rain Bird Rotors. They've really helped me build my business."

Dennis Hoffman
Grasshopper Irrigation, Inc.

Major Products	Closed Case Rotors				Open Case Rotor
	3504 Series	5000 Series	8005 Series	Falcon™ 6504 Series	2045A Maxi-Paw™ Series
Primary Applications					
Turfgrass 15' to 30'	●	●			
Turfgrass 25' to 50'		●	●	●	●
Turfgrass more than 50'			●	●	
Residential	●	●			●
Commercial		●	●	●	●
Vandalism/Damage Prone Areas			●		
Slopes	●	●	●	●	●
Ground Cover/Shrubs	●	●			
Athletic Fields			●	●	
Pressure Regulating		●			
High Wind Areas	●	●	●	●	●
Taller Turfgrass		●	●		
Non-Potable Water	●	●	●	●	●



Water Saving Tips

- Rain Curtain™ nozzle technology is the standard in water-saving nozzle performance. Rain Curtain™ performance is available in all Rain Bird Rotors.
- 5000 Series Rotors with PRS reduce water waste from 15%-45%. By eliminating pressure variation and/or over pressurization, you'll save water and deliver greener results.
- All rotors with Seal-a-Matic™ (SAM) check valves prevent drainage from heads at lower elevations, stop water waste and eliminate landscape damage due to flooding and/or erosion.

3500 Series

Compact Residential Rotor. Big on Value and Convenience

Features

- Rain Curtain™ nozzles deliver even distribution over the entire radius including large wind resistant droplets and gentle close-in watering resulting in greener turf using less water
- Oversized wiper seal prevents leaks and protects internals from debris
- Arc adjustment through the top of the rotor requiring only a flat-blade screwdriver
- 3 year trade warranty

Operating Specifications

- Precipitation rate: 0.37 to 0.83 inches per hour (9 to 21 mm/h)
- Radius: 15 to 35 feet (4.6 to 10.7 m)
- Radius may be reduced up to 25% with radius reduction screw
- Pressure: 25 to 55 psi (1.7 to 3.8 bar)
- Flow rate: 0.54 to 4.6 gpm (2.0 to 17.4 l/m)
- ½" NPT female bottom threaded inlet
- Reversing full- and part-circle adjustment 40° - 360°

Models

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

- 3504-PC: 4" part/reverse full circle
- 3504-PC-SAM: 4" part/reverse full circle with SAM™
- 3504-PC-SAM-NP: 4" part/reverse full circle with SAM and NP cover
- 3500-S-SAM: 4" part/reverse full circle shrub model with SAM



3504-PC

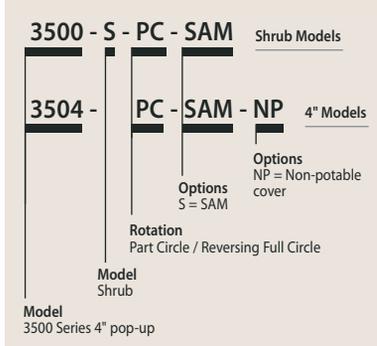
-  0.37 to 0.83 in/hr
(9 to 21 mm/h)

-  25 to 55 psi
(1.7 to 3.8 bar)

-  0.54 to 4.6 gpm
(2.0 to 17.4 l/m)
(0.12 to 1.04 m³/h)

-  4" (10.2 cm)
Shrub: 7" (17.8 cm)
4": 6 5/8" (16.8 cm)
½" (20/27) NPT

How To Specify



Superior Distribution Uniformity

The 3500 Series Rotors with Rain Curtain Technology are engineered to deliver a uniform spray pattern, giving you a consistently green lawn throughout.

3504 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 ASABE Standards; ASABE S398.1.

See page 186 for complete ASABE Test Certification Statement.

3504 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

5000 Series

Engineered to be the Industry's Most Reliable and Best Performing Rotor

Features

- Oversized wiper seal prevents leaks and protects internals from debris
- Rain Curtain™ nozzles deliver even distribution over the entire radius including large wind resistant droplets and gentle close-in watering resulting in greener turf using less water
- A history of proven performance and reliability tested in millions of installations
- Self-flushing arc adjustment port that prevents buildup of debris
- 5 year trade warranty

Operating Specifications

- Precipitation rate: 0.20 to 1.01 in/hr (5 to 26 mm/h)
- Radius: 15 to 50 feet (4.6 to 15.2 m)
- Radius may be reduced up to 25% with radius reduction screw
- Pressure: 25 to 65 psi (1.7 to 4.5 bar)
- Flow Rate: 0.76 to 9.63 gpm (3.0 to 36.6 l/m; 0.17 to 2.19 m³/h)

Optional Features

- All features of the 5000 Series plus:
 - **Plus (PL) Flow shutoff** – “The Green Top.” Reduce downtime on jobs by flushing and nozzling rotors without running back and forth to the controller or valves
 - **PRS (R)** with flow optimizer technology. The 45 psi pressure regulator lowers water bills, provides exact flow of each rotor, equalizes lateral lines, and eliminates misting and fogging
 - **SAM Seal-A-Matic** check valve
 - **Stainless steel (SS) riser** helps deter vandalism on public turf areas (available on 4 and 6" models)
 - **Purple cover (NP)** for non-potable systems



5000 Series

 0.20 to 1.01 in/hr
(5 to 26 mm/h)

 25 to 65 psi
(1.7 to 4.5 bar)

 0.76 to 9.63 gpm
(3.0 to 36.6 l/m)
(0.17 to 2.19 m³/h)

 Shrub: 4" (10.2 cm)
6" (15.2 cm)
12" (30.5 cm)
Shrub: 7 3/4" (19.7 cm)
4": 7 3/8" (18.5 cm)
6": 9 5/8" (24.5 cm)
12": 16 7/8" (42.9 cm)
3/4" (20/27) NPT

How To Specify

5004-+-S-PC-SAM-R-NP-SS

Model	Options
5004: 4" pop-up	SAM
5006: 6" pop-up	R: PRS
5012: 12" pop-up	NP: Non-potable cover
	Rotation
	"PC" for 40°-360°
	"FC" for 360°
Model	Model
Plus (+)	Shrub
	Stainless steel

Note: Certain specifications not available for some rotor series.



Rotors

5000 Series (cont.)

- | | | |
|-----------------------------------------------|------------------------------|---------------------------|
| S Shrub Model | SAM Check valve | SS Stainless Steel |
| + Plus Model | Plus Flow shut-off | NP Non-Potable ID |
| PC Part Circle & Reversing Full Circle | R Pressure Regulation | HS High Speed |
| FC Non-Reversing Full Circle | | |

Models

Part-circle units (PC) are adjustable from 40 –350 degrees.
Full-circle units (FC) are 360 degrees only.

- 5000SPCSAM: 5000S Shrub Part Circle SAM
- 5000+SPCSAM: 5000S Shrub Plus Part Circle SAM
- 5000+SPCSAMNP: 5000S Shrub Plus Part Circle SAM Non Potable
- 5000+SPCSAMR: 5000S Shrub Plus PRS Part Circle SAM
- 5000S+PCSR: 5000S Plus Shrub PRS PC SAM NP
- 5004PC: 5004 Part Circle
- 5004PC20: 5004 Part Circle w/2.0 Nozzle
- 5004PC30: 5004 Part Circle w/3.0 Nozzle
- 5004PCSAM: 5004 Part Circle SAM
- 5004PCSAM20: 5004 Part Circle SAM w/2.0 Nozzle
- 5004PCSAM30: 5004 Part Circle SAM w/3.0 Nozzle
- 5004PCNP: 5004 Part Circle Non Potable
- 5004PCR: 5004 Part Circle PRS
- 5004PCR20: 5004 Part Circle PRS w/ 2.0 Nozzle
- 5004PCR30: 5004 Part Circle PRS w/ 3.0 Nozzle
- 5004+PC: 5004 Plus Part Circle
- 5004+PC20: 5004 Plus Part Circle w/2.0 Nozzle
- 5004+PC30: 5004 Plus Part Circle w/3.0 Nozzle
- 5004+PCSAM: 5004 Plus Part Circle SAM
- 5004+PCR 5004: Plus Part Circle PRS
- 5004+PCSAMR: 5004 Plus Part Circle SAM PRS
- 5004+PCSAMR20: 5004 Plus Part Circle SAM PRS w/2.0 Nozzle
- 5004+PCSAMR30: 5004 Plus Part Circle SAM PRS w/3.0 Nozzle
- 5004+PCSAMRSS: 5004 Plus Part Circle SAM PRS Stainless Steel
- 5004+PCSAMRNS: 5004 Plus Part Circle SAM PRS Stainless Steel Non Potable
- 5004FC 5004: Full Circle
- 5004+FC 5004: Plus Full Circle
- 5004+FCSAM: 5004 Plus Full Circle SAM
- 5004+FCSAMR: 5004 Plus Full Circle SAM PRS
- 5004+FCSAMRSS: 5004 Plus Full Circle Stainless Steel SAM PRS
- 5006PC: 5006 Part Circle
- 5006PC30: 5006 Part Circle w/ 3.0 Nozzle
- 5006+PC: 5006 Plus Part Circle
- 5006+PCSAM: 5006 Plus Part Circle SAM
- 5006+PCSAMNP: 5006 Plus Part Circle SAM Non Potable
- 5006+PCSAMR: 5006 Plus Part Circle SAM PRS
- 5006+PCSAMRNP: 5006 Plus Part Circle SAM PRS Non Potable
- 5006+PCSAMRSS: 5006 Plus Part Circle SAM PRS Stainless Steel
- 5006+PCSAMRNS: 5006 Plus Part Circle SAM PRS Stainless Steel Non Potable
- 5012+PCSAMR: 5012 Plus Part Circle SAM PRS
- 5012+PCSAMRNP: 5012 Plus Part Circle SAM PRS Non Potable
- 5000S+PCSR: 5000S PLUS SHRUB PRS PC SAM NP

Rotors

Three steps to specification:

1. Choose your rotor model and size.
2. Choose arc setting PC/FC.
3. Add available options or pre-installed nozzles.

	Model/Size (Choose 1)	Part or Full Circle (Choose 1)	Available Options (Optional Choices)	Pre-Installed nozzles (Optional Choices)	Specification Notes
Closed Case Rotors	3500S 3504	PC	SAM NP		Part circle / reversing full circle
	5000S 5000+S 5004 5004+ 5006 5006+ 5012 5012+	PC FC	SAM R SS NP	20 30	PC only on 5000, 5006 and 5012 models. 2.0 or 3.0 nozzles.
	6504	PC FC	SS NP HS		SAM standard.
	8005		SS NP		Part circle and non-reversing full circle in one head. SAM standard.
	Open Case Rotors	Maxi-Paw		SAM NP	

5000 Series Std. Angle Rain Curtain™ Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
25	1.5	33	1.12	0.20	0.23
	2.0	35	1.50	0.24	0.27
	2.5	35	1.81	0.28	0.33
	3.0	36	2.26	0.34	0.39
	4.0	36	2.91	0.43	0.49
	5.0	37	3.72	0.52	0.60
	6.0	37	4.25	0.60	0.69
	8.0	30	5.90	1.26	1.50
35	1.5	34	1.35	0.22	0.26
	2.0	36	1.81	0.27	0.31
	2.5	37	2.17	0.31	0.35
	3.0	38	2.71	0.36	0.42
	4.0	40	3.50	0.42	0.49
	5.0	41	4.47	0.51	0.59
	6.0	43	5.23	0.54	0.63
	8.0	38	7.06	0.94	1.10
45	1.5	35	1.54	0.24	0.28
	2.0	37	2.07	0.29	0.34
	2.5	37	2.51	0.35	0.41
	3.0	39	3.09	0.37	0.43
	4.0	42	4.01	0.44	0.51
	5.0	43	5.09	0.48	0.56
	6.0	44	6.01	0.59	0.69
	8.0	41	8.03	0.92	1.06
55	1.5	35	1.71	0.27	0.31
	2.0	37	2.30	0.32	0.37
	2.5	37	2.76	0.39	0.45
	3.0	40	3.47	0.42	0.48
	4.0	42	4.44	0.48	0.56
	5.0	45	5.66	0.54	0.62
	6.0	50	6.63	0.51	0.59
	8.0	46	8.86	0.80	0.93
65	1.5	34	1.86	0.31	0.36
	2.0	35	2.52	0.40	0.46
	2.5	37	3.01	0.42	0.49
	3.0	40	3.78	0.45	0.53
	4.0	42	4.83	0.53	0.61
	5.0	45	6.16	0.59	0.68
	6.0	50	7.22	0.55	0.64
	8.0	47	9.63	0.84	0.97

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 ASABE Standards; ASABE S398.1. See page 186 for complete ASABE Test Certification Statement.

5000 Series Std. Angle Rain Curtain™ Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
2.0	1.5	10.2	0.28	4.8	5	6
	2.0	10.8	0.36	6.0	6	7
	2.5	10.9	0.44	7.2	7	9
	3.0	11.2	0.55	9.0	9	10
	4.0	11.6	0.71	12.0	11	12
	5.0	12.1	0.91	15.0	13	15
	6.0	12.4	1.05	17.4	15	17
	8.0	11.8	1.45	24.0	32	37
2.5	1.5	10.4	0.31	5.4	6	7
	2.0	11.0	0.41	6.6	7	8
	2.5	11.3	0.50	8.4	8	9
	3.0	11.2	0.62	10.2	9	11
	4.0	12.3	0.81	13.2	11	13
	5.0	12.7	1.03	17.4	13	15
	6.0	13.2	1.21	20.4	14	16
	8.0	13.3	1.63	27.0	24	28
3.0	1.5	10.6	0.34	6.0	6	7
	2.0	11.2	0.45	7.8	7	8
	2.5	11.3	0.56	9.6	9	10
	3.0	12.1	0.69	11.4	9	11
	4.0	12.7	0.89	15.0	11	13
	5.0	13.5	1.13	18.6	12	14
	6.0	13.4	1.34	22.2	13	17
	8.0	13.4	1.79	30.0	23	27
3.5	1.5	10.7	0.37	6.0	7	8
	2.0	11.3	0.49	8.4	8	9
	2.5	11.3	0.60	10.2	9	11
	3.0	12.2	0.74	12.6	10	12
	4.0	12.8	0.97	16.2	12	14
	5.0	13.7	1.23	20.4	13	15
	6.0	14.2	1.45	24.0	13	15
	8.0	14.9	1.93	32.4	20	24
4.0	1.5	10.6	0.40	6.6	7	8
	2.0	11.1	0.52	9.0	8	10
	2.5	11.3	0.64	10.8	10	12
	3.0	12.2	0.80	13.2	11	12
	4.0	12.8	1.04	17.4	13	15
	5.0	13.7	1.32	22.2	14	16
	6.0	14.9	1.55	25.8	14	16
	8.0	15.2	2.06	34.2	21	25
4.5	1.5	10.4	0.42	7.2	8	9
	2.0	10.7	0.55	9.0	10	11
	2.5	11.3	0.68	11.4	11	12
	3.0	12.2	0.84	13.8	11	13
	4.0	12.8	1.10	18.0	13	15
	5.0	13.7	1.40	23.4	15	17
	6.0	14.6	1.64	28.2	15	18
	8.0	15.2	2.19	36.6	19	22

Rotors

5000 Series Low Angle Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
25	1.0 LA	25	0.76	0.23	0.27
	1.5 LA	27	1.15	0.30	0.35
	2.0 LA	29	1.47	0.34	0.39
	3.0 LA	29	2.23	0.51	0.59
35	1.0 LA	28	0.92	0.23	0.26
	1.5 LA	30	1.38	0.30	0.34
	2.0 LA	31	1.77	0.35	0.41
	3.0 LA	33	2.68	0.47	0.55
45	1.0 LA	27	1.05	0.27	0.32
	1.5 LA	28	1.58	0.38	0.45
	2.0 LA	29	2.02	0.46	0.53
	3.0 LA	32	3.07	0.57	0.67
55	1.0 LA	29	1.17	0.27	0.31
	1.5 LA	31	1.76	0.35	0.41
	2.0 LA	33	2.24	0.40	0.46
	3.0 LA	36	3.41	0.51	0.58
65	1.0 LA	29	1.27	0.29	0.34
	1.5 LA	31	1.92	0.38	0.44
	2.0 LA	33	2.45	0.43	0.50
	3.0 LA	36	3.72	0.55	0.64

5000 Series Low Angle Nozzle Performance						METRIC
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
1.7	1.0 LA	7.6	0.17	3.0	6	7
	1.5 LA	8.2	0.26	4.2	8	9
	2.0 LA	8.8	0.33	5.4	9	10
	3.0 LA	8.8	0.51	8.4	13	15
2.0	1.0 LA	8.0	0.18	3.0	6	6
	1.5 LA	8.6	0.28	4.8	8	9
	2.0 LA	9.1	0.36	6.0	9	10
	3.0 LA	9.3	0.55	9.0	13	15
2.5	1.0 LA	8.2	0.20	3.6	6	8
	1.5 LA	8.5	0.32	5.4	9	11
	2.0 LA	8.8	0.41	6.6	11	13
	3.0 LA	9.7	0.62	10.2	14	17
3.0	1.0 LA	8.8	0.22	3.6	6	7
	1.5 LA	9.4	0.35	6.0	8	9
	2.0 LA	9.7	0.45	7.8	10	11
	3.0 LA	10.6	0.68	11.4	12	14
3.5	1.0 LA	8.8	0.24	4.2	6	7
	1.5 LA	9.4	0.38	6.6	9	10
	2.0 LA	9.9	0.49	8.4	10	11
	3.0 LA	10.8	0.74	12.6	13	15
4.0	1.0 LA	8.8	0.26	4.2	7	8
	1.5 LA	9.4	0.41	6.6	9	11
	2.0 LA	10.1	0.52	9.0	10	12
	3.0 LA	11.0	0.80	13.2	13	15
4.5	1.0 LA	8.8	0.27	4.8	7	8
	1.5 LA	9.4	0.44	7.2	10	11
	2.0 LA	10.1	0.56	9.0	11	13
	3.0 LA	11.0	0.84	13.8	14	16

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 ASABE Standards; ASABE S398.1.

See page 186 for complete ASABE Test Certification Statement.

Holdup Tool with Bubble Level

Features

- Combination holdup tool/ bubble level makes proper installation easier
- Works with 5000, 5500, Falcon® 6504, and 8005



HOLDUPTOOL

ROTORTOOL

Features

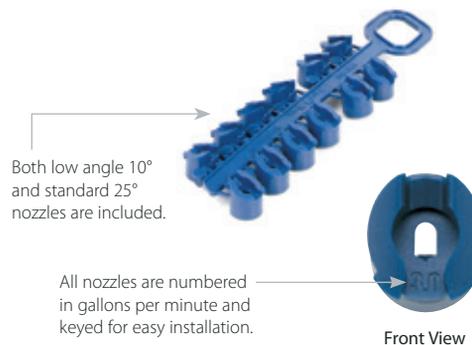
- Flat blade screwdriver and pull-up tool all in one

Model

- ROTORTOOL



ROTORTOOL



5000 PRS Std. Angle Rain Curtain™ Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
25	1.5	33	1.12	0.2	0.23
	2.0	35	1.5	0.24	0.27
	2.5	35	1.81	0.28	0.33
	3.0	36	2.26	0.34	0.39
	4.0	36	2.91	0.43	0.49
	5.0	37	3.72	0.52	0.66
	6.0	37	4.25	0.60	0.69
	8.0	30	5.9	1.26	1.5
35	1.5	34	1.35	0.22	0.26
	2.0	36	1.81	0.27	0.31
	2.5	37	2.17	0.31	0.35
	3.0	38	2.71	0.36	0.41
	4.0	40	3.5	0.42	0.49
	5.0	41	4.47	0.51	0.59
	6.0	43	5.23	0.54	0.63
	8.0	38	7.06	0.94	1.1
45	1.5	35	1.54	0.24	0.28
	2.0	37	2.07	0.29	0.34
	2.5	37	2.51	0.35	0.41
	3.0	40	3.09	0.37	0.43
	4.0	42	4.01	0.44	0.51
	5.0	45	5.09	0.48	0.56
	6.0	46	6.01	0.55	0.63
	8.0	41	8.03	0.92	1.06
55 – 75	1.5	35	1.59	0.25	0.29
	2.0	37	2.14	0.3	0.35
	2.5	37	2.6	0.37	0.42
	3.0	40	3.2	0.39	0.44
	4.0	42	4.15	0.45	0.52
	5.0	45	5.27	0.5	0.58
	6.0	46	6.22	0.57	0.65
	8.0	47	8.31	0.72	0.84

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 ASABE Standards; ASABE S398.1.

See page 186 for complete ASABE Test Certification Statement.

5000 PRS Std. Angle Rain Curtain™ Nozzle Performance						METRIC
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
1.7	1.5	10.1	0.25	4.2	5	6
	2.0	10.7	0.34	5.4	6	7
	2.5	10.7	0.41	6.6	7	8
	3.0	11.0	0.51	8.4	8	10
	4.0	11.3	0.66	10.8	10	12
	5.0	11.9	0.84	13.8	12	14
	6.0	11.9	0.97	16.2	14	16
	8.0	11.0	1.34	22.2	22	26
2.0	1.5	10.2	0.28	4.8	5	6
	2.0	10.8	0.36	6.0	6	7
	2.5	10.9	0.44	7.2	7	9
	3.0	11.2	0.55	9.0	9	10
	4.0	11.6	0.71	12.0	11	12.6
	5.0	12.1	0.91	15.0	13	15
	6.0	12.4	1.05	17.4	15	17
	8.0	11.8	1.45	24.0	32	37
2.5	1.5	10.4	0.31	5.4	6	7
	2.0	11.0	0.41	6.6	7	8
	2.5	11.3	0.50	8.4	8	9
	3.0	11.2	0.62	10.2	9	11
	4.0	12.3	0.81	13.2	11	13
	5.0	12.7	1.03	17.4	13	15
	6.0	13.2	1.21	20.4	14	16
	8.0	13.3	1.63	27.0	24	18
3.0	1.5	10.6	0.34	6.0	6	7
	2.0	11.2	0.45	7.8	7	8
	2.5	11.3	0.56	9.6	9	10
	3.0	12.1	0.69	11.4	9	11
	4.0	12.7	0.89	16.8	11	13
	5.0	13.5	1.13	18.6	12	14
	6.0	13.9	1.34	22.2	14	16
	8.0	14.1	1.79	30.0	23	27
3.5 – 5.2	1.5	10.6	0.35	6.0	6	7
	2.0	11.2	0.47	7.8	8	9
	2.5	11.3	0.58	10.2	9	11
	3.0	12.1	0.71	12.0	10	11
	4.0	12.7	0.92	15.6	12	13
	5.0	13.5	1.17	19.2	13	15
	6.0	13.9	1.39	22.8	14	17
	8.0	14.1	1.85	31.2	18	21



5000 PRS Low Angle Nozzle Performance

Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
25	1.0 LA	25	0.76	0.22	0.26
	1.5 LA	27	1.15	0.3	0.35
	2.0 LA	29	1.47	0.34	0.39
	3.0 LA	29	2.23	0.51	0.59
35	1.0 LA	28	0.92	0.21	0.25
	1.5 LA	30	1.38	0.3	0.34
	2.0 LA	31	1.77	0.35	0.41
	3.0 LA	33	2.68	0.47	0.55
45	1.0 LA	29	1.05	0.23	0.26
	1.5 LA	31	1.58	0.32	0.37
	2.0 LA	32	2.02	0.38	0.44
	3.0 LA	35	3.07	0.48	0.56
55 - 75	1.0 LA	29	1.09	0.25	0.29
	1.5 LA	31	1.64	0.33	0.38
	2.0 LA	32	2.09	0.39	0.45
	3.0 LA	35	3.18	0.5	0.58

5000 PRS Low Angle Nozzle Performance

5000 PRS Low Angle Nozzle Performance					METRIC	
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
1.7	1.0 LA	7.6	0.17	3.0	6	7
	1.5 LA	8.2	0.26	4.2	8	9
	2.0 LA	8.8	0.33	5.4	9	10
	3.0 LA	8.8	0.51	8.4	13	15
2.0	1.0 LA	8.0	0.18	3.0	6	6
	1.5 LA	8.6	0.28	4.8	8	9
	2.0 LA	9.1	0.36	6.0	9	10
	3.0 LA	9.3	0.55	9.0	13	15
2.5	1.0 LA	8.6	0.20	3.6	5	6
	1.5 LA	9.2	0.32	5.4	8	9
	2.0 LA	9.5	0.41	6.6	9	10
	3.0 LA	10.1	0.62	10.2	12	14
3.0	1.0 LA	8.8	0.22	3.6	6	7
	1.5 LA	9.4	0.35	6.0	8	9
	2.0 LA	9.7	0.45	7.8	10	11
	3.0 LA	10.6	0.68	11.4	12	14
3.5 - 5.2	1.0 LA	8.8	0.23	3.6	6	7
	1.5 LA	9.4	0.36	6.0	8	10
	2.0 LA	9.7	0.47	7.8	10	12
	3.0 LA	10.6	0.70	12.0	13	15

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

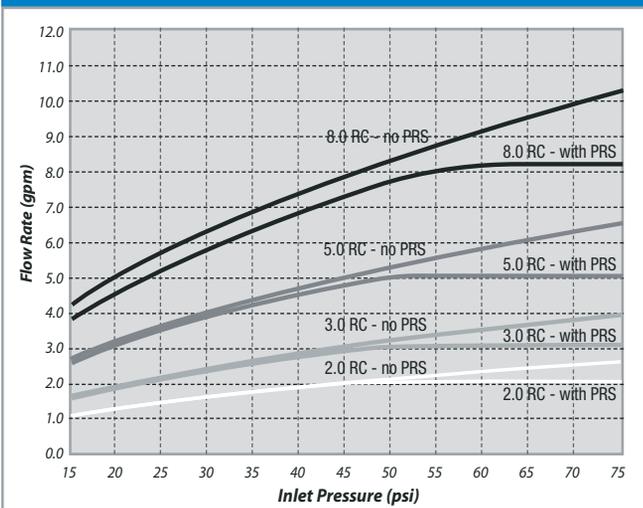
▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

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

See page 186 for complete ASABE Test Certification Statement.

Flow Rate vs. Inlet Pressure – Rain Curtain™ Nozzles



How much water can you save each minute using Rain Bird® 5000 PRS Rotors with Flow Optimizer Technology?

Flow GPM	45	50	55	60	65	70	75	80
6	0	0.33	0.66	0.96	1.25	1.54	1.81	2.06
8	0	0.43	0.85	1.24	1.62	1.98	2.33	2.67
10	0	0.55	1.07	1.57	2.05	2.52	2.96	3.39
12	0	0.66	1.27	1.86	2.43	2.97	3.50	4.01
14	0	0.77	1.49	2.18	2.84	3.48	4.10	4.70
16	0	0.87	1.69	2.48	3.24	3.97	4.67	5.35
18	0	0.98	1.90	2.79	3.64	4.46	5.25	6.01
20	0	1.10	2.12	3.10	4.05	4.96	5.83	6.68
22	0	1.21	2.33	3.42	4.46	5.47	6.44	7.37
24	0	1.30	2.54	3.72	4.85	5.94	7.00	8.01
26	0	1.41	2.76	4.04	5.27	6.45	7.60	8.70
28	0	1.53	2.96	4.34	5.66	6.93	8.16	9.35
30	0	1.63	3.17	4.65	6.07	7.43	8.74	10.02

Total gallons of water saved per minute of run time

Ex: At 70 psi a zone with 20 gpm of flow would save 4.96 gallons a minute with 5000 PRS

5000 Series MPR Nozzles

Perfectly Balanced Coverage with the 5000 Series Rotor

Features

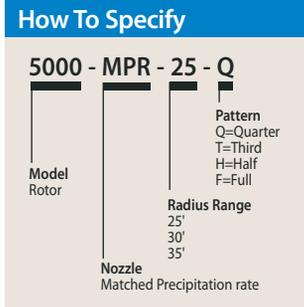
- Rain Curtain™ nozzles deliver even distribution over the entire radius including large wind resistant droplets and gentle close-in watering resulting in greener turf using less water
- Precipitation rate is automatically matched with a uniform radius that does not require stream deflection
- Matched 0.6"/hour precipitation rates enable large and small turf areas to be zoned together by mixing rotors and Rain Bird R-VAN or R-Series rotary nozzles

Models

- 5000MPRMPK: 5000/5000 Plus Series MPR nozzle tree multi pack- 25', 30', 35' radius in Quarter, Third, Half, Full arc



5000 Series MPR Nozzles



5000-MPR-25 (Red)						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	
Quarter 	25	23	0.74	0.54	0.62	
	35	24	0.88	0.59	0.68	
	45	25	1.00	0.62	0.71	
	55	25	1.11	0.68	0.79	
	65	25	1.21	0.75	0.86	
Third 	25	23	1.00	0.55	0.63	
	35	24	1.21	0.61	0.70	
	45	25	1.38	0.64	0.74	
	55	25	1.53	0.71	0.82	
	65	25	1.67	0.77	0.89	
Half 	25	23	1.44	0.52	0.61	
	35	24	1.73	0.58	0.67	
	45	25	1.98	0.61	0.70	
	55	25	2.21	0.68	0.79	
	65	25	2.41	0.74	0.86	
Full 	25	23	2.78	0.51	0.58	
	35	24	3.34	0.56	0.64	
	45	25	3.82	0.59	0.68	
	55	25	4.25	0.65	0.76	
	65	25	4.63	0.71	0.82	

5000-MPR-25 (Red) METRIC						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	7.0	0.17	3.0	13.7	15.8
	2.4	7.3	0.20	3.6	14.9	17.3
	3.1	7.6	0.23	3.6	15.6	18.1
	3.8	7.6	0.25	4.2	17.4	20.1
	4.5	7.6	0.27	4.8	18.9	21.9
Third 	1.7	7.0	0.23	3.6	13.9	16.0
	2.4	7.3	0.27	4.8	15.4	17.8
	3.1	7.6	0.31	5.4	16.2	18.7
	3.8	7.6	0.35	6.0	18.0	20.7
	4.5	7.6	0.38	6.6	19.6	22.6
Half 	1.7	7.0	0.33	5.4	13.3	15.4
	2.4	7.3	0.39	6.6	14.7	17.0
	3.1	7.6	0.45	7.2	15.5	17.9
	3.8	7.6	0.50	8.4	17.3	20.0
	4.5	7.6	0.55	9.0	18.9	21.8
Full 	1.7	7.0	0.63	10.8	12.8	14.8
	2.4	7.3	0.76	12.6	14.2	16.4
	3.1	7.6	0.87	14.4	14.9	17.3
	3.8	7.6	0.97	16.2	16.6	19.2
	4.5	7.6	1.05	17.4	18.1	20.9

5000-MPR-30 (Green)					
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
 Quarter	25	29	1.03	0.47	0.54
	35	30	1.23	0.53	0.61
	45	30	1.40	0.60	0.69
	55	30	1.56	0.67	0.77
	65	30	1.69	0.72	0.83
 Third	25	29	1.34	0.46	0.53
	35	30	1.62	0.52	0.60
	45	30	1.85	0.59	0.69
	55	30	2.06	0.66	0.76
	65	30	2.24	0.72	0.83
 Half	25	29	2.15	0.49	0.57
	35	30	2.59	0.55	0.64
	45	30	2.96	0.63	0.73
	55	30	3.30	0.71	0.82
	65	30	3.60	0.77	0.89
 Full	25	29	4.24	0.49	0.56
	35	30	5.08	0.54	0.63
	45	30	5.78	0.62	0.71
	55	30	6.39	0.68	0.79
	65	30	6.92	0.74	0.85

5000-MPR-30 (Green)					METRIC	
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
 Quarter	1.7	8.8	0.23	3.6	12.0	13.8
	2.4	9.1	0.28	4.8	13.4	15.4
	3.1	9.1	0.32	5.4	15.2	17.6
	3.8	9.1	0.35	6.0	17.0	19.6
	4.5	9.1	0.38	6.6	18.4	21.2
 Third	1.7	8.8	0.30	4.8	11.7	13.5
	2.4	9.1	0.37	6.0	13.2	15.2
	3.1	9.1	0.42	7.2	15.1	17.4
	3.8	9.1	0.47	7.8	16.8	19.4
	4.5	9.1	0.51	8.4	18.3	21.1
 Half	1.7	8.8	0.49	8.4	12.5	14.4
	2.4	9.1	0.59	9.6	14.1	16.2
	3.1	9.1	0.67	11.4	16.1	18.6
	3.8	9.1	0.75	12.6	17.9	20.7
	4.5	9.1	0.82	13.8	19.6	22.6
 Full	1.7	8.8	0.96	16.2	12.3	14.2
	2.4	9.1	1.15	19.2	13.8	15.9
	3.1	9.1	1.31	21.6	15.7	18.1
	3.8	9.1	1.45	24.0	17.4	20.0
	4.5	9.1	1.57	26.4	18.8	21.7

5000-MPR-35 (Beige)					
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
 Quarter	25	32	1.40	0.53	0.61
	35	34	1.67	0.56	0.64
	45	35	1.92	0.60	0.70
	55	35	2.13	0.67	0.77
	65	35	2.31	0.73	0.84
 Third	25	32	1.77	0.50	0.58
	35	34	2.15	0.54	0.62
	45	35	2.46	0.58	0.67
	55	35	2.74	0.65	0.75
	65	35	2.99	0.70	0.81
 Half	25	32	2.75	0.52	0.60
	35	34	3.33	0.55	0.64
	45	35	3.81	0.60	0.69
	55	35	4.23	0.66	0.77
	65	35	4.62	0.73	0.84
 Full	25	32	5.36	0.50	0.58
	35	34	6.62	0.55	0.64
	45	35	7.58	0.60	0.69
	55	35	8.43	0.66	0.76
	65	35	9.18	0.72	0.83

5000-MPR-35 (Beige)					METRIC	
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
 Quarter	1.7	9.8	0.32	5.4	13.4	15.4
	2.4	10.4	0.38	6.6	14.1	16.3
	3.1	10.7	0.44	7.2	15.3	17.7
	3.8	10.7	0.48	7.8	17.0	19.6
	4.5	10.7	0.52	9.0	18.4	21.3
 Third	1.7	9.8	0.40	6.6	12.7	14.6
	2.4	10.4	0.49	8.4	13.6	15.8
	3.1	10.7	0.56	9.6	14.7	17.0
	3.8	10.7	0.62	10.2	16.4	18.9
	4.5	10.7	0.68	11.4	17.9	20.7
 Half	1.7	9.8	0.62	10.2	13.1	15.2
	2.4	10.4	0.76	12.6	14.1	16.3
	3.1	10.7	0.87	14.4	15.2	17.6
	3.8	10.7	0.96	16.2	16.9	19.5
	4.5	10.7	1.05	17.4	18.4	21.3
 Full	1.7	9.8	1.22	20.4	12.8	14.8
	2.4	10.4	1.50	25.2	14.0	16.2
	3.1	10.7	1.72	28.8	15.1	17.5
	3.8	10.7	1.91	31.8	16.8	19.4
	4.5	10.7	2.09	34.8	18.3	21.2

■ 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 ASABE Standards; ASABE S398.1. See page 186 for complete ASABE Test Certification Statement.

Falcon® 6504 Series

Reliable and Economical

Features

- Ratcheting stem just like standard spray bodies
- 3-port, color-coded Rain Curtain nozzles for optimal long range, mid-range, and close-in watering
- SAM Seal-A-Matic check valve
- Self-adjusting stator does not require replacement when changing nozzles
- Heavy-duty, stainless steel retract spring ensures positive pop down
- 5 year warranty

Options

- **Stainless steel (SS)** riser helps deter vandalism on public turf areas
- **Purple cover (NP)** for non-potable systems
- **High Speed (HS)** "Tan Top" version for dust suppression

Operating Specifications

- Precipitation rate: 0.37 to 1.14 inches per hour (9 to 29 mm/h)
- Radius: 39 to 65 feet (11.9 to 19.8 m)
- Pressure: 30 to 90 psi (2.1 to 6.2 bar)
- Flow: 2.9 to 21.7 gpm (0.66 to 4.93 m³/h; 10.8 to 82.2 l/m)
- 1" (26/34) female NPT or BSP threaded inlet
- SAM check device holds up to 10 feet (3.1 m) of elevation change
- Rain Curtain™ Nozzles: 04-black; 06-light blue; 08-dark green; 10-grey; 12-beige; 14-light green; 16-dark brown; 18-dark blue

Models

- 6504-FC: Full-circle
- 6504-PC: Part-circle
- 6504-FC-NP: Full-circle, non-potable cover
- 6504-PC-NP: Part-circle, non-potable cover
- 6504-FC-SS: Full-circle, stainless steel
- 6504-PC-SS: Part-circle, stainless steel
- 6504-FC-SS-HS: Full-circle, stainless steel, high speed rotation
- 6504-PC-SS-HS: Part-circle, stainless steel, high speed rotation
- 6504-FC-SS-NP: Full-circle, stainless steel, non-potable cover
- 6504-PC-SS-NP: Part-circle, stainless steel, non-potable cover

Note: All models available with BSP threads



Falcon® 6504 Series

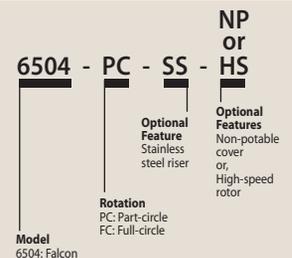
 0.37 to 1.14 in/hr
(9 to 29 mm/h)

 30 to 90 psi
(2.1 to 6.2 bar)

 2.9 to 21.7 gpm
(10.8 to 82.2 l/m)
(0.66 to 4.93 m³/h)

 4" (10.2 cm)
8½" (21.6 cm)
1" (26/34) NPT or BSP

How To Specify



Note: For non-U.S. applications, it is necessary to specify NPT or BSP thread type.



Falcon® 6504 Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
30	● 4	39	2.9	0.37	0.42
	● 6	43	4.2	0.44	0.50
40	● 4	41	3.3	0.38	0.44
	● 6	45	4.9	0.47	0.54
	● 8	49	6.6	0.53	0.61
	● 10	51	8.1	0.60	0.69
	● 12	53	9.7	0.66	0.77
	● 14	55	11.3	0.72	0.83
	● 16	55	12.6	0.80	0.93
	● 18	59	13.7	0.76	0.87
50	● 4	41	3.7	0.42	0.49
	● 6	47	5.5	0.44	0.51
	● 8	51	7.4	0.55	0.63
	● 10	53	9.1	0.62	0.72
	● 12	55	11.0	0.70	0.81
	● 14	59	12.7	0.70	0.81
	● 16	61	14.3	0.74	0.85
	● 18	59	15.4	0.85	0.98
60	● 4	41	4.0	0.46	0.53
	● 6	47	6.0	0.52	0.60
	● 8	51	8.2	0.61	0.70
	● 10	55	10.0	0.64	0.73
	● 12	57	12.2	0.72	0.83
	● 14	61	14.0	0.72	0.84
	● 16	63	15.7	0.76	0.88
	● 18	63	17.1	0.83	0.96
70	● 4	41	4.4	0.50	0.58
	● 6	49	6.3	0.51	0.58
	● 8	51	8.9	0.66	0.76
	● 10	57	10.8	0.64	0.74
	● 12	59	13.2	0.73	0.84
	● 14	61	15.2	0.79	0.91
	● 16	63	16.9	0.82	0.95
	● 18	65	18.3	0.83	0.96
80	● 4	43	4.6	0.48	0.55
	● 6	49	6.9	0.55	0.64
	● 8	53	9.4	0.64	0.74
	● 10	55	11.6	0.74	0.85
	● 12	61	14.0	0.72	0.84
	● 14	61	16.2	0.84	0.97
	● 16	63	18.1	0.88	1.01
	● 18	65	19.6	0.89	1.03
90	● 18	65	21.7	0.99	1.14

High-Speed Falcon® 6504 Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
30	● 4	37	3.0	0.42	0.49
	● 6	39	4.3	0.54	0.63
40	● 4	41	3.5	0.40	0.46
	● 6	43	6.0	0.62	0.72
	● 8	47	6.6	0.58	0.66
	● 10	47	8.1	0.71	0.82
	● 12	49	9.9	0.79	0.92
	● 14	53	11.4	0.78	0.90
	● 16	51	12.6	0.93	1.08
	● 18	53	13.9	0.95	1.10
50	● 4	41	3.7	0.42	0.49
	● 6	45	5.6	0.53	0.62
	● 8	49	7.5	0.60	0.69
	● 10	49	9.2	0.74	0.85
	● 12	53	11.2	0.77	0.89
	● 14	53	12.9	0.88	1.02
	● 16	53	14.3	0.98	1.13
	● 18	55	15.6	0.99	1.15
60	● 4	41	4.2	0.48	0.56
	● 6	45	6.2	0.59	0.68
	● 8	47	8.3	0.72	0.84
	● 10	49	10.2	0.82	0.94
	● 12	53	12.4	0.85	0.98
	● 14	53	14.2	0.97	1.12
	● 16	55	15.7	1.00	1.15
	● 18	59	17.2	0.95	1.10
70	● 4	41	4.6	0.53	0.61
	● 6	43	6.7	0.70	0.81
	● 8	49	9.0	0.72	0.83
	● 10	51	11.1	0.82	0.95
	● 12	55	13.5	0.86	0.99
	● 14	53	15.3	1.05	1.21
	● 16	57	17.1	1.01	1.17
	● 18	59	18.6	1.03	1.19
80	● 4	39	4.9	0.62	0.72
	● 6	43	7.1	0.74	0.85
	● 8	51	9.7	0.72	0.83
	● 10	49	11.9	0.95	1.10
	● 12	55	14.4	0.92	1.06
	● 14	53	16.5	1.13	1.31
	● 16	59	18.4	1.02	1.18
	● 18	59	20.0	1.11	1.28
90	● 18	61	21.3	1.10	1.27

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 ASABE Standards; ASABE S398.1. See page 186 for complete ASABE Test Certification Statement.

Falcon® 6504 Nozzle Performance					METRIC	
Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
2.1	● 4	11.9	0.66	10.98	9	11
	● 6	13.1	0.95	15.90	11	13
2.5	● 4	12.3	0.72	11.92	10	11
	● 6	13.5	1.05	17.56	12	13
	● 8	14.9	1.50	25.20	13	16
	● 10	15.5	1.84	30.60	15	18
	● 12	16.2	2.20	36.60	17	19
	● 14	16.8	2.57	42.60	18	21
	● 16	16.8	2.86	47.40	20	24
3.0	● 4	12.5	0.78	13.02	10	12
	● 6	14.1	1.16	19.34	12	13
	● 8	15.1	1.56	26.04	14	16
	● 10	15.8	1.92	31.99	15	18
	● 12	16.4	2.31	38.44	17	20
	● 14	17.2	2.68	44.63	18	21
	● 16	17.4	3.00	49.95	20	23
3.5	● 4	12.5	0.85	14.09	11	13
	● 6	14.9	1.26	20.96	11	13
	● 8	15.5	1.69	28.24	14	16
	● 10	16.2	2.08	34.70	16	18
	● 12	16.8	2.52	41.98	18	21
	● 14	18.0	2.91	48.45	18	21
	● 16	18.6	3.27	54.53	19	22
4.0	● 4	12.5	0.89	14.91	11	13
	● 6	14.4	1.34	22.33	13	15
	● 8	15.5	1.83	30.44	15	17
	● 10	16.6	2.23	37.17	16	19
	● 12	17.3	2.72	45.28	18	21
	● 14	18.5	3.12	52.01	18	21
	● 16	19.1	3.50	58.37	19	22

Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
4.5	● 4	12.5	0.96	15.94	12	14
	● 6	14.6	1.40	23.33	13	15
	● 8	15.5	1.95	32.43	16	19
	● 10	17.1	2.37	39.44	16	19
	● 12	17.7	2.89	48.17	18	21
	● 14	18.6	3.32	55.38	19	22
	● 16	19.2	3.71	61.82	20	23
5.0	● 4	12.7	1.01	16.84	13	15
	● 6	14.9	1.47	24.50	13	15
	● 8	15.7	2.05	34.16	17	19
	● 10	17.2	2.50	41.64	17	19
	● 12	18.1	3.04	50.72	19	21
	● 14	18.6	3.51	58.49	20	23
	● 16	19.2	3.91	65.11	21	24
5.5	● 4	13.1	1.04	17.39	12	14
	● 6	14.9	1.56	25.79	14	16
	● 8	16.1	2.13	35.54	16	19
	● 10	16.8	2.63	43.84	19	22
	● 12	18.6	3.18	52.92	18	21
	● 14	18.6	3.67	61.23	21	25
	● 16	19.2	4.10	68.40	22	26
6.0	● 18	19.8	4.79	79.77	24	28
6.2	● 18	19.8	4.93	82.13	25	29

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 ASABE Standards; ASABE S398.1. See page 186 for complete ASABE Test Certification Statement.



Falcon® 6504 Rain Curtain™ Nozzles

High-Speed Falcon® 6504 Nozzle Performance						METRIC	
Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
2.1	● 4	11.3	0.68	11.35	11	12	
	● 6	11.9	0.98	15.90	14	16	
2.5	● 4	12.0	0.75	12.54	10	12	
	● 6	12.7	1.22	20.16	15	18	
	● 8	14.2	1.49	25.20	15	17	
	● 10	14.2	1.83	30.60	18	21	
	● 12	14.8	2.24	37.20	20	24	
	● 14	16.0	2.58	43.20	20	23	
	● 16	15.4	2.85	47.40	24	28	
	● 18	16.0	3.15	52.80	24	28	
3.0	● 4	12.5	0.81	13.51	10	12	
	● 6	13.3	1.33	22.18	15	17	
	● 8	14.5	1.57	26.18	15	17	
	● 10	14.5	1.93	32.12	18	21	
	● 12	15.4	2.35	39.20	20	23	
	● 14	16.2	2.71	48.09	21	24	
	● 16	15.8	3.00	49.95	24	28	
	● 18	16.4	3.29	54.87	25	28	
3.5	● 4	12.5	0.85	14.15	11	13	
	● 6	13.7	1.28	21.37	14	16	
	● 8	14.9	1.72	28.62	16	18	
	● 10	14.9	2.11	35.11	19	22	
	● 12	16.2	2.56	42.74	20	23	
	● 14	16.2	2.95	49.20	23	26	
	● 16	16.2	3.27	54.53	25	29	
	● 18	16.9	3.57	59.51	25	29	
4.0	● 4	12.5	0.93	15.52	12	14	
	● 6	13.7	1.38	23.02	15	17	
	● 8	14.4	1.85	30.81	18	21	
	● 10	14.9	2.27	37.86	20	24	
	● 12	16.2	2.76	46.03	21	24	
	● 14	16.2	3.17	52.77	24	28	
	● 16	16.6	3.50	58.37	25	29	
	● 18	17.7	3.83	63.90	24	28	

High-Speed Falcon® 6504 Nozzle Performance							METRIC	
Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h		
4.5	● 4	12.5	1.00	16.69	13	15		
	● 6	13.4	1.48	24.46	16	19		
	● 8	14.6	1.97	32.81	18	21		
	● 10	15.3	2.42	40.40	21	24		
	● 12	16.5	2.95	49.13	22	25		
	● 14	16.2	3.36	55.94	26	30		
	● 16	17.1	3.73	62.22	26	30		
	● 18	18.0	4.07	67.89	25	29		
5.0	● 4	12.3	1.06	17.70	14	16		
	● 6	13.1	1.56	25.74	18	21		
	● 8	15.1	2.08	34.73	18	21		
	● 10	15.4	2.57	42.78	22	25		
	● 12	16.8	3.12	51.96	22	26		
	● 14	16.2	3.54	59.06	27	31		
	● 16	17.5	3.96	65.96	26	30		
	● 18	18.0	4.30	71.74	27	31		
5.5	● 4	11.9	1.11	18.52	16	18		
	● 6	13.1	1.61	26.84	19	22		
	● 8	15.5	2.20	36.65	18	21		
	● 10	14.9	2.70	44.97	24	28		
	● 12	16.8	3.27	54.43	23	27		
	● 14	16.2	3.74	62.35	29	33		
	● 16	18.0	4.17	69.53	26	30		
	● 18	18.0	4.53	75.58	28	32		
6.0	● 18	18.4	4.75	79.16	28	32		
6.2	● 18	18.6	4.84	80.62	28	32		

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 ASABE Standards; ASABE S398.1.

See page 186 for complete ASABE Test Certification Statement.

8005 Series

Protect Your Turf with High Performance, Vandal and Abuse Resistant Rotors from 39' to 81'

Features

- Vandal resistance, brass reinforced turret for increased side impact durability
- Memory Arc® returns the rotor to its original arc setting
- Non-strippable drive mechanism prevents damage from vandals
- Easy, wet, dry arc adjustment with slotted screwdriver through top of rotor from 50° to 330° part-circle, 360° non-reversing full-circle. Full and part circle operation in one unit
- Left and right side trips adjustable for ease of installation without turning the case and loosening the pipe connection
- SAM Seal-A-Matic check valve
- 3-port, color-coded Rain Curtain nozzles for optimal long-range, mid-range, and close-in watering
- 5 year warranty

Options

- **Stainless steel (SS)** riser helps deter vandalism on public turf areas
- **Purple cover (NP)** for non-potable systems

Operating Specifications

- Radius: 39 to 81 feet (11.9 to 24.7 m)
- Precipitation rate: 0.48 to 1.23 inches per hour (12 to 31 mm/h)
- Pressure: 50 to 100 psi (3.5 to 6.9 bar)
- Flow: 3.8 to 36.3 gpm (0.86 to 8.24 m³/h; 14.4 to 137.4 l/m)
- 1" (26/34) NPT or BSP female threaded inlet
- SAM check device holds up to 10 feet (3.1 m) of head
- Nozzle outlet trajectory is 25°
- Rain Curtain™ Nozzles: 04 - black; 06 - light blue; 08 - dark green; 10 - gray; 12 - beige; 14 - light green; 16 - dark brown; 18 - dark blue; - 20 - red; 22 - yellow; 24 - orange; 26 - white

Note: Flow ranges of 7005 and 8005 are combined into 8005 rotor

Models

- 8005: 1" NPT female threaded inlet (plastic riser stem)
- 8005-NP: 1" NPT female threaded inlet (plastic riser stem with non-potable cover)
- 8005-SS: 1" NPT female threaded inlet (5" stainless steel covered riser stem)
- 8005-SS-NP: 1" NPT female threaded inlet (5" stainless steel covered riser stem with non-potable cover)
- Optional Sod Cup

Note: All models available with BSP threads

**** Note:** Pop-up height is measured from cover to the primary nozzle port. Overall body height is measured popped down



8005 Series

 0.48 to 1.23 in/hr
(12 to 31 mm/h)

 50 to 100 psi
(3.5 to 6.9 bar)

 3.8 to 36.3 gpm
(14.4 to 137.4 l/m)
(0.86 to 8.24 m³/h)

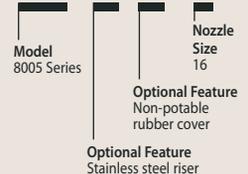
 5" (12.7 cm)

 10 1/8" (25.7 cm)

 1" (26/34) NPT
or BSP

How To Specify

8005 - SS - NP - 16



Note: For non-U.S. applications, it is necessary to specify NPT or BSP thread type.



8005 Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
50	● 04	39	3.8	0.48	0.56
	● 06	45	5.6	0.53	0.62
	● 08	49	6.6	0.53	0.61
	● 10	53	9.3	0.64	0.74
	● 12	57	11.1	0.66	0.76
	● 14	59	12.6	0.70	0.81
	● 16	61	14.3	0.74	0.85
	● 18	63	16.1	0.78	0.90
	● 20	65	18.6	0.85	0.98
	● 22	65	20.7	0.94	1.09
	● 24	63	22.3	1.08	1.25
	○ 26	65	24.3	1.11	1.28
60	● 04	39	3.8	0.48	0.56
	● 06	45	6.1	0.58	0.67
	● 08	49	8.4	0.67	0.78
	● 10	53	10.1	0.69	0.80
	● 12	59	12.0	0.66	0.77
	● 14	61	14.3	0.74	0.85
	● 16	65	15.9	0.72	0.84
	● 18	65	17.8	0.81	0.94
	● 20	67	20.1	0.86	1.00
	● 22	71	23.2	0.89	1.02
	● 24	69	24.7	1.00	1.15
	○ 26	73	26.7	0.96	1.11
70	● 04	39	4.7	0.60	0.69
	● 06	45	6.7	0.64	0.74
	● 08	49	9.0	0.72	0.83
	● 10	55	11.1	0.71	0.82
	● 12	59	13.2	0.73	0.84
	● 14	63	15.3	0.74	0.86
	● 16	67	17.2	0.74	0.85
	● 18	67	19.3	0.83	0.96
	● 20	71	22.0	0.84	0.97
	● 22	73	25.2	0.91	1.05
	● 24	75	27.0	0.92	1.07
	○ 26	75	29.4	1.01	1.16
80	● 04	39	5.0	0.63	0.73
	● 06	45	7.1	0.68	0.78
	● 08	49	9.8	0.79	0.91
	● 10	55	11.8	0.75	0.87
	● 12	61	14.2	0.73	0.85
	● 14	63	16.4	0.80	0.92
	● 16	67	18.6	0.80	0.92
	● 18	69	20.9	0.85	0.98
	● 20	71	23.9	0.91	1.05
	● 22	75	27.3	0.93	1.08
	● 24	77	29.2	0.95	1.10
	○ 26	79	31.5	0.97	1.12

Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
90	● 12	61	14.7	0.76	0.88
	● 14	65	17.9	0.82	0.94
	● 16	69	20.0	0.81	0.93
	● 18	71	22.2	0.85	0.98
	● 20	73	25.3	0.91	1.06
	● 22	75	29.1	1.00	1.15
	● 24	79	31.0	0.96	1.10
100	○ 26	79	33.7	1.04	1.20
	● 20	75	26.8	0.85	0.97
	● 22	77	30.7	1.00	1.15
	● 24	79	32.8	1.01	1.17
	○ 26	81	36.3	1.07	1.23

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 ASABE Standards; ASABE S398.1.

See page 186 for complete ASABE Test Certification Statement.



8005 Cutaway



Sod Cup for 8005

8005 Nozzle Performance					METRIC	
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
3.5	● 4	11.9	0.86	14.38	12	14
	● 6	13.7	1.28	21.34	14	16
	● 8	14.9	1.59	25.50	14	16
	● 10	16.1	2.10	35.43	16	19
	● 12	17.5	2.52	42.27	16	19
	● 14	18.0	2.89	48.18	18	21
	● 16	18.7	3.28	54.59	19	22
	● 18	19.2	3.69	61.43	20	23
	● 20	19.9	4.25	70.83	21	25
	● 22	20.0	5.08	79.07	25	29
	● 24	19.3	5.11	85.10	27	32
○ 26	20.0	5.57	92.67	28	32	
4.0	● 4	11.9	0.93	14.38	13	15
	● 6	13.7	1.37	22.71	15	17
	● 8	14.9	1.75	30.44	16	18
	● 10	16.3	2.30	37.63	17	20
	● 12	17.7	2.70	44.74	17	20
	● 14	18.5	3.17	52.85	19	21
	● 16	19.6	3.54	58.98	18	21
	● 18	19.7	3.97	66.10	20	24
	● 20	20.3	4.50	74.95	22	25
	● 22	21.3	5.23	85.94	23	27
	● 24	20.7	5.50	91.69	26	30
○ 26	21.8	6.01	99.26	25	29	
4.5	● 4	11.9	1.00	16.18	14	16
	● 6	13.7	1.45	24.28	15	18
	● 8	14.9	1.92	32.99	17	20
	● 10	16.5	2.40	40.22	18	20
	● 12	18.0	2.87	47.81	18	20
	● 14	18.9	3.37	56.12	19	22
	● 16	20.1	3.77	62.77	19	22
	● 18	20.1	4.22	70.36	21	24
	● 20	21.1	4.79	79.87	22	25
	● 22	22.0	5.51	91.80	23	26
	● 24	22.0	5.88	98.08	24	28
○ 26	22.6	6.42	106.44	25	29	
5.0	● 4	11.9	1.06	18.08	15	17
	● 6	13.7	1.54	25.74	16	19
	● 8	14.9	2.09	34.83	19	22
	● 10	16.7	2.50	42.68	18	21
	● 12	18.3	3.05	50.92	18	21
	● 14	19.2	3.54	58.96	19	22
	● 16	20.4	3.99	66.44	19	22
	● 18	20.6	4.47	74.58	21	24
	● 20	21.6	5.11	85.08	22	25
	● 22	22.4	5.84	97.39	23	27
	● 24	23.0	6.26	104.29	24	27
○ 26	23.2	6.80	113.28	25	29	

Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
5.5	● 4	11.9	1.13	18.90	16	18
	● 6	13.7	1.62	26.84	17	20
	● 8	14.9	2.25	37.02	20	23
	● 10	16.8	2.70	44.60	19	22
	● 12	18.5	3.23	53.66	19	22
	● 14	19.2	3.72	61.98	20	23
	● 16	20.4	4.22	70.28	20	23
	● 18	21.0	4.74	78.97	21	25
	● 20	21.6	5.42	90.30	23	27
	● 22	22.8	6.19	103.15	24	28
	● 24	23.5	6.62	110.33	24	28
○ 26	24.1	7.14	119.05	25	28	
6.0	● 12	18.6	3.30	55.07	19	22
	● 14	19.6	3.96	66.06	21	24
	● 16	20.9	4.45	74.12	20	24
	● 18	21.5	4.95	82.56	21	25
	● 20	22.1	5.65	94.18	23	27
	● 22	22.9	6.71	108.12	26	30
6.2	● 24	23.9	6.92	115.31	24	28
	○ 26	24.1	7.50	125.08	26	30
	● 14	19.8	4.06	67.75	21	24
	● 16	21.0	4.54	75.70	21	24
6.5	● 18	21.7	5.04	84.02	21	25
	● 20	22.5	5.89	98.19	23	27
	● 22	23.4	6.84	112.73	25	29
	● 24	24.1	7.22	120.25	25	29
6.9	○ 26	24.3	7.91	131.76	27	31
	● 20	22.9	6.09	101.43	23	27
	● 22	23.5	6.97	116.19	25	29
6.9	● 24	24.1	7.45	124.14	26	30
	○ 26	24.7	8.24	137.39	27	31

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 ASABE Standards; ASABE S398.1. See page 186 for complete ASABE Test Certification Statement.



8005 Rain Curtain™ Nozzles

Optional High-flow Nozzles for 8005 Series Rotors

Rain Curtain™ Nozzle Cross Reference Guide Hunter® vs. Rain Bird

Rain Curtain™ Nozzle Cross Reference Guide Toro® vs. Rain Bird

Hunter vs. Rain Bird – 3/4" Rotors		
If replacing:	Use Rain Bird Nozzle	
	By Flow	By Radius
PGP	5000 Series	5000 Series
1	-	-
2	-	-
3	-	-
4	1.5	1.5
5	2.0	2.0
6	2.5	2.5
7	3.0	3.0
8	4.0	4.0
9	5.0	5.0
10	8.0	6.0
11	-	8.0
12	-	8.0

Toro vs. Rain Bird – 3/4" Rotors		
If replacing:	Use Rain Bird Nozzle	
	By Flow	By Radius
Super 800	5000 Series	5000 Series
0.5	-	-
0.75	-	-
1.0	1.5	1.5
2.0	2.5	2.0
2.5	3.0	2.5
3.0	4.0	2.5
4.0	5.0	3.0
6.0	6.0	4.0
8.0	8.0	5.0

Hunter vs. Rain Bird – 3/4" Rotors				
If replacing:	Use Rain Bird Nozzle			
	By Flow		By Radius	
I-20	5000 Series	5500	5000 Series	5500
0.5 SR	-	-	-	○ 18S
1.0 SR	-	-	-	○ 18S
2.0 SR	-	○ 18S	-	○ 18S
0.75 SR	-	-	-	○ 22S
1.5 SR	-	○ 22S	-	○ 22S
3.0 SR	-	○ 26S	-	○ 22S
1.0	1.5	-	1.5	○ 30S
1.5	1.5	● 2	1.5	○ 30S
2.0	2.0	● 2	2.0	● 2
3.0	2.5	● 3	2.5	● 2
3.5	3.0	● 4	3.0	● 3
4.0	4.0	● 5	4.0	● 3
6.0	5.0	● 6	5.0	● 4
8.0	6.0	● 8	6.0	● 8

Toro vs. Rain Bird – 3/4" Rotors				
If replacing:	Use Rain Bird Nozzle			
	By Flow		By Radius	
TR50	5000 Series	5505	5000 Series	5505
● 1.0	-	-	-	-
● 1.5	1.5	● 2	1.5	● 2
● 2.0	2.0	● 2	2.0	● 3
● 3.0	3.0	● 3	3.0	● 3
● 4.5	4.0	● 5	4.0	● 3
● 6.0	5.0	● 6	4.0	● 4
● 7.5	6.0	● 8	4.0	● 4
● 9.0	8.0	● 10	5.0	● 4

Hunter vs. Rain Bird – 1" Rotors				
If replacing:	Use Rain Bird Nozzle			
	By Flow		By Radius	
I-25	6504	8005	6504	8005
● 4	● 4	● 4	● 4	● 4
○ 5	● 6	● 6	● 6	● 6
● 7	● 8	● 8	● 8	● 8
● 8	○ 10	○ 10	● 8	● 8
● 10	○ 12	○ 12	○ 10	○ 10
● 13	○ 12	○ 12	○ 12	○ 12
○ 15	○ 14	○ 14	○ 14	○ 12
● 18	● 16	● 16	● 16	○ 14
● 20	● 18	● 18	● 18	○ 14
● 23	-	● 22	-	○ 16
● 25	-	● 24	-	● 20
● 28	-	○ 26	-	● 22
I-40	6504	8005	6504	8005
40	● 8	● 8	● 6	● 8
41	○ 12	○ 12	○ 10	○ 10
42	○ 12	○ 12	○ 10	○ 12
43	● 16	● 16	○ 14	○ 14
44	● 18	● 20	● 18	○ 16
45	-	● 22	-	● 20
I-35	6504	8005	6504	8005
● 9	● 8	● 8	● 8	● 8
○ 12	○ 12	○ 12	○ 10	○ 10
○ 15	○ 14	○ 14	○ 12	○ 12
● 18	● 16	● 16	○ 14	○ 14
● 21	● 18	● 18	○ 14	○ 14
● 24	-	● 22	● 16	○ 16
● 27	-	● 24	● 16	○ 16
● 30	-	○ 26	-	● 20

Toro vs. Rain Bird – 1" Rotors				
If replacing:	Use Rain Bird Nozzle			
	By Flow		By Radius	
Toro 2001	6504	8005	6504	8005
● 9	○ 10	○ 10	○ 10	○ 10
● 12	○ 12	○ 12	○ 12	○ 12
● 15	● 16	● 16	○ 14	○ 14
● 18	● 18	● 20	● 18	○ 16
● 24	-	● 22	-	● 20
TR70	6504	8005	6504	8005
● 7	● 8	● 8	-	● 6
● 9	● 8	● 8	● 8	● 8
● 12	○ 12	○ 12	○ 10	○ 10
● 16	● 16	● 16	○ 14	○ 12
● 20	-	● 20	○ 14	○ 14
● 24	-	● 20	● 16	○ 14
● 27	-	● 20	● 18	○ 16
Toro 640	6504	8005	6504	8005
40	● 8	● 8	● 8	○ 10
41	○ 10	○ 12	○ 10	○ 10
42	○ 14	○ 14	○ 12	○ 12
43	● 16	● 16	○ 14	○ 14
44	● 18	● 20	● 16	○ 14

2045A Maxi-Paw™ and 2045-PJ Maxi-Bird™

Dirty Water Applications - Spacing Up to 45 Feet (13.7 m)

Features

- Proven impact drive with straight-through flow for superior performance in dirty water
- Five standard trajectory and two low angle (LA) color-coded nozzles for matched precipitation and in a wide range of applications
- 360° full-circle OR arc adjustable from 20° to 340°
- Side and combination ½" or ¾" bottom inlet for design flexibility (Maxi-Paw)
- 3 year warranty

Operating Specifications

- Precipitation rate: 0.28 to 1.21 inches per hour (7 to 31 mm/h)
- Spacing: 22 to 45 feet (6.7 to 13.7 m)
- Flow rate: 1.5 to 8.4 gpm (0.34 to 1.91 m³/h; 0.9 to 0.53 l/s)
- Radius: 22 to 45 feet (6.7 to 13.7 m); 18 feet (5.4 m) with Radius Reduction Screw
- Pressure: 25 to 60 psi (1.7 to 4.1 bar)
- Combination ½" or ¾" female bottom inlet (Maxi-Paw)
- ½" FPT side inlet (Maxi-Paw)
- ½" (15/21) Riser-Mounted (Maxi-Bird)

Models

- 2045A Maxi-Paw
- 2045A Maxi-Paw-SAM
- 2045A Maxi-Paw-SAM-NP
- 42064: Maxi-Paw Wrench - for removing internal assembly from case
- 2045-PJ Maxi-Bird



2045A Maxi-Paw



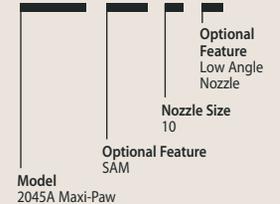
2045-PJ Maxi-Bird



42064

How To Specify

2045A- SAM-10- LA



Rotors

Maxi-Paw and Maxi-Bird Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
25	● 06	-	-	-	-
	● 07 LA	22	1.5	0.60	0.69
	● 07	32	2.2	0.41	0.48
	● 08	35	2.8	0.44	0.51
	● 10 LA	25	3.4	1.05	1.21
	● 10	38	4.2	0.56	0.65
35	● 12	39	5.5	0.70	0.80
	● 06	37	2.0	0.28	0.32
	● 07 LA	23	1.9	0.69	0.80
	● 07	37	2.7	0.38	0.44
	● 08	38	3.3	0.44	0.51
	● 10 LA	29	4.0	0.92	1.06
45	● 10	41	4.8	0.55	0.64
	● 12	42	6.3	0.69	0.79
	● 06	38	2.3	0.31	0.35
	● 07 LA	25	2.1	0.65	0.75
	● 07	39	3.0	0.38	0.44
	● 08	40	3.7	0.45	0.51
55	● 10 LA	31	4.5	0.90	1.04
	● 10	42	5.4	0.59	0.68
	● 12	44	7.1	0.71	0.82
	● 06	38	2.5	0.33	0.39
	● 07 LA	25	2.3	0.71	0.82
	● 07	41	3.3	0.38	0.44
60	● 08	41	4.1	0.47	0.54
	● 10 LA	32	5.0	0.94	1.09
	● 10	43	6.0	0.62	0.72
	● 12	45	7.9	0.75	0.87
	● 06	38	2.6	0.35	0.40
	● 07 LA	25	2.4	0.74	0.85
	● 07	41	3.5	0.40	0.46
	● 08	42	4.2	0.46	0.53
	● 10 LA	32	5.4	1.02	1.17
	● 10	44	6.4	0.64	0.74
	● 12	45	8.4	0.80	0.92

Maxi-Paw and Maxi-Bird Nozzle Performance METRIC						
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
2.0	● 6	-	-	-	-	-
	● 07 LA	6.8	0.38	6.0	16	19
	● 7	10.4	0.55	9.0	10	12
	● 8	11.0	0.68	11.4	11	13
	● 10 LA	8.1	0.83	13.8	25	29
	● 10	11.9	1.01	16.8	14	16
2.5	● 12	12.3	1.32	22.2	18	20
	● 6	11.3	0.46	7.8	7	8
	● 07 LA	7.1	0.44	7.2	17	20
	● 7	11.4	0.62	10.2	10	11
	● 8	11.7	0.76	12.6	11	13
	● 10 LA	8.9	0.92	15.6	23	27
3.0	● 10	12.5	1.11	18.6	14	16
	● 12	12.9	1.45	24.0	18	20
	● 6	11.5	0.51	8.4	8	9
	● 07 LA	7.5	0.47	7.8	17	19
	● 7	11.8	0.67	11.4	10	11
	● 8	12.1	0.83	13.8	11	13
3.5	● 10 LA	9.4	1.01	16.8	23	27
	● 10	12.8	1.21	20.4	15	17
	● 12	13.3	1.59	26.4	18	21
	● 6	11.6	0.55	9.0	8	9
	● 07 LA	7.6	0.50	8.4	17	20
	● 7	12.2	0.72	12.0	10	11
4.0	● 8	12.4	0.89	15.0	12	13
	● 10 LA	9.6	1.09	18.0	23	27
	● 10	13.0	1.30	21.6	15	18
	● 12	13.6	1.72	28.8	19	21
	● 6	11.6	0.58	9.6	9	10
	● 07 LA	7.6	0.54	9.0	18	21
	● 7	12.5	0.78	13.2	10	11
	● 8	12.7	0.94	15.6	12	14
	● 10 LA	9.8	1.19	19.8	25	29
	● 10	13.3	1.42	23.4	16	19
	● 12	13.7	1.86	31.2	20	23

LA = Low Angle

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 ASABE Standards; ASABE S398.1.

See page 186 for complete ASABE Test Certification Statement.



2045A Maxi-Paw and 2045-PJ
Standard Angle Nozzles



2045A Maxi-Paw and 2045-PJ
Low Angle Nozzles

TSJ/TSJ-PRS Series

Swing Joints Connect ¾" (1.9 cm) and 1" (2.5 cm) Rotors or Quick Coupler Valves to Lateral Pipes

Features

- Preassembled units save the contractor time and reduce installation costs
- Excellent structural integrity from the swept elbow design reduces the costs associated with fatigue related failures
- Double O Ring provides extra protection against leaks and keeps threads clean of debris making hand tightening easy
- The TSJ-PRS combines the great flow characteristics of the Rain Bird turf swing joint with an inline pressure regulating outlet elbow for controlling and maintaining constant pressure right at the rotor inlet



Operating Specifications

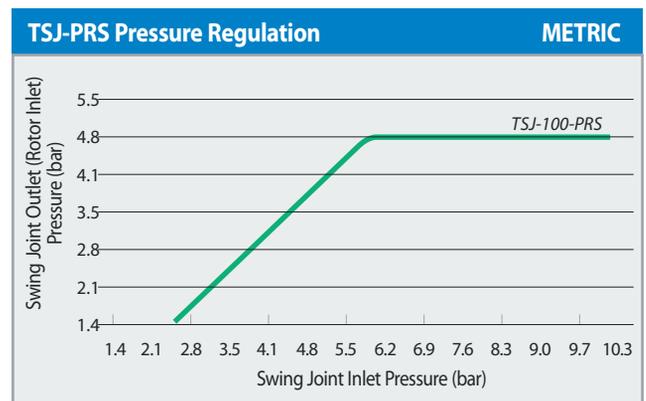
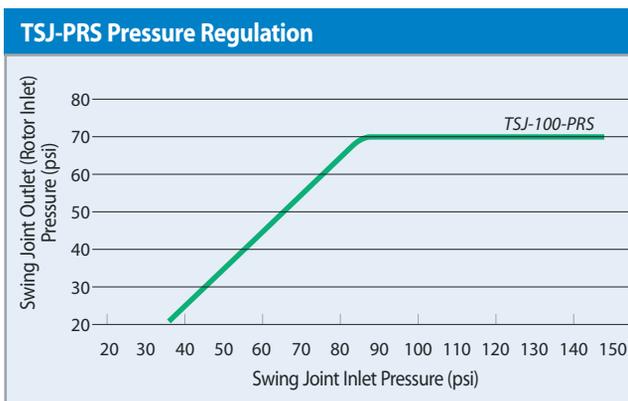
- Pressure rating: 315 psi at 73° F (21.7 bar at 22.8° C) (per ASTM D3139)
- ¾" joint pressure loss: 0.3 psi at 6 gpm (0.02 bar at 0.4 l/s)
- 1" joint pressure loss: 1.5 psi at 18 gpm; 2.5 psi at 23 gpm (0.1 bar at 1,1 l/s; 0.2 bar at 1.5 l/s)
- TSJ-PRS maximum flow: 22 gpm (1.41 l/s)

TSJ-PRS Application Information

- The TSJ-PRS is not recommended for use in systems where the pressure in the lateral lines is equal to or less than the nominal regulation pressure, as the increased pressure drop may adversely affect the performance of such systems
- To reduce the effects of water hammer, Rain Bird recommends flow rates in the supply line not exceed 5 ft/sec (1.5 m/s). The TSJ-PRS is not intended to function as a water hammer prevention device
- There are no user-serviceable parts inside. The internal spring is under compression. Do not open the PRS unit under any circumstances

Models

- TSJ-12075: 12" (30.5 cm) long, ¾" (20/27) M x M NPT swing joint
- TSJ-12: 12" (30.5 cm) long, 1" (26/34) M x M NPT swing joint
- TSJ-100-PRS: 1" swing joint with 70 psi pressure regulator, 12" (30.5 cm) long, 1" (26/34) M x M NPT inlet and outlet



Swing Joint Specifications

Model Number	Length		Inlet		Outlet		Thread	Pressure Regulation	
	US	METRIC	US	METRIC	US	METRIC		US	METRIC
TSJ-12075	12"	30.5 cm	¾" M	20/27 M	¾" M	20/27 M	NPT	n/a	n/a
TSJ-12	12"	30.5 cm	1" M	26/34 M	1" M	26/34 M	NPT	n/a	n/a
TSJ-100-PRS	12"	30.5 cm	1" M	26/34 M	1" M	26/34 M	NPT	70 psi	70 psi