

Rain Bird® 500 Series

SPECIFICATIONS

Radius:

28' to 47' (8.5 m to 14.3 m)

Flow Rate:

7.25 to 13.20 gpm (1.65 to 3.00 m³/h)

Arc:

Full-circle 360°

Models:

Full-Circle:

500E: Electric

500IC: Integrated Control

500S/H: Combined use Stopamatic (SAM) or Hydraulic (N.O.)*

500B: Seal-A-Matic™ device

Maximum Inlet Pressure:

Models 500E and IC: 150 psi (10.3 bars)

Models 500S/H and B: 100 psi (6.9 bars)

Pressure Regulation Range: 60 to 100 psi

(4.1 to 6.9 bars)

Factory Pressure Settings: 500E/IC available in 70 and 80 psi (4.8 and 5.5 bars)

Inlet Threads:

Models E, IC, S/H: 1.25" (3.2 cm) ACME Female Threaded

Models B: 1" (2.5 cm) ACME Female Threaded

Dimensions:

Body Height:

Models E, IC, S/H: 12.0" (30.5 cm)

Models B: 9.6" (24.5 cm)

Pop-Up Height to Mid-Nozzle:

Models E, IC, S/H, B: 2.6" (6.6 cm)

Top Diameter:

Models E, IC, S/H: 6.25" (15.9 cm)

Models B: 4.25" (10.8 cm)

Rotation Time:

360° in ≤ 180 seconds; 150 seconds nominally

Holdback:

Block: 10' (3.1 m) of elevation

SAM/Hydraulic: 15' (4.6 m) of elevation

Nozzle Trajectory:

51 Nozzle: 12°

52, 53, 54 Nozzles: 25°

Maximum Stream Height:

51 Nozzle: 5' (1.5 m)

52, 53, 54 Nozzles: 13' (4.0 m)

Solenoid: 24 VAC solenoid power requirement:

0.41 amp inrush current (9.8 VA);

60 cycle: 0.25 amp holding current (6.0 VA);

50 cycle: 0.32 amp holding current (7.7 VA)



Surge Resistance: Up to 25kV standard on electric models

Top-Serviceable Rock Screen™ and Replaceable Valve Seat:

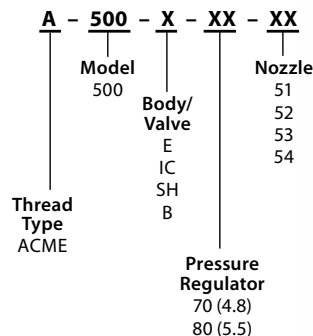
On models 500E, IC, S/H

*N.O. — Normally open



● 500 Series

HOW TO SPECIFY



Performance Data: 500 Series

U.S. Data

Base Pressure (psi)	60		70		80		90		100	
	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)
#51-Blue	28	7.25	30	7.85	31	8.25	32	8.42	32	8.60
#52-Beige	35	7.20	35	7.70	35	8.30	37	8.70	37	9.10
#53-Gray	43	9.40	45	10.10	45	10.80	45	10.90	45	11.20
#54-Red	47	11.20	47	12.00	47	12.80	47	13.00	47	13.20

Metric Data

Base Pressure (bars)	4.1		4.8		5.5		6.2		6.9	
	Radius (m)	Flow (m³/h)	Radius (m)	Flow (m³/h)	Radius (m)	Flow (m³/h)	Radius (m)	Flow (m³/h)	Radius (m)	Flow (m³/h)
#51-Blue	8.5	1.65	9.1	1.78	9.4	1.87	9.8	1.91	9.8	1.95
#52-Beige	10.7	1.64	10.7	1.75	10.7	1.88	11.3	1.98	11.3	2.07
#53-Gray	13.1	2.13	13.7	2.29	13.7	2.45	13.7	2.48	13.7	2.54
#54-Red	14.3	2.54	14.3	2.73	14.3	2.91	14.3	2.95	14.3	3.00



All data is generated from tests conducted in accordance with ASAE Standard S398.1 for at least 30 minutes in zero-wind conditions. Rain Bird recommends the use of SPACE for Windows® equivalent program or derived performance data to optimize nozzle selection.