

Maxi-Paw™ 2045A Rotor

Technical Specifications



The Maxi-Paw's powerful throw permits maximum spacing, offers superior close-in watering, and delivers uniform water distribution. Low pressure loss and an efficient, straight-through flow design conserve energy and are ideal for dirty water applications. The optional Seal-A-Matic™ (SAM) check valve prevents runoff, puddling, and erosion caused by low head drainage. And most important, it's rugged and dependable, popping up on schedule again and again because of the multi-function wiper seal. The Maxi-Paw Rotor—a tradition of excellence.

FEATURES:

- Five interchangeable, color-coded MPR nozzles
- Two interchangeable low-angle (LA) nozzles
- No tools required to change nozzles
- Heavy-duty plastic case with sturdy, reinforced ribbed design
- Double-weighted arm for slower rotation and increased distance of throw
- Self-flushing inner trip with improved inner trip lever
- Powerful reverse action
- Adjustable arm spring for low-pressure and low-gallage operation
- Energy efficient, low-pressure and low-gallage operation
- Proven impact drive
- Straight-through flow
- Full-circle or adjustable arc 20° to 340°
- Precision Jet Tube (PJ™)
- Hooded bearing
- Distance controller diffuser pin
- Multi-function, pressure-activated wiper seal
- FP trip for full- or part-circle operation
- Inlet filter screen
- Combination ½" or ¾" bottom inlet
- Serviceable through the top of the case
- Optional internal Seal-A-Matic (SAM) prevents puddling and erosion caused by low head drainage and saves water

OPERATING RANGE:

Precipitation Rate

0.28 to 1.21 in/hr (7 to 31 mm/h)

Spacing

22 to 45 ft (6.7 to 13.7 m)

Flow Rate

1.5 to 8.4 gpm (0.9 to 1.91 l/s;
0.34 to 1.91 m³/h)

Radius

22 to 45 ft (6.7 to 13.7 m)

Pressure

25 to 60 psi (2.0 to 4.5 bar)

DIMENSIONS:

Overall Height

9^{3/16}" (23.6 cm)

Top Diameters

5" (12.7 cm)

SPECIFICATIONS:

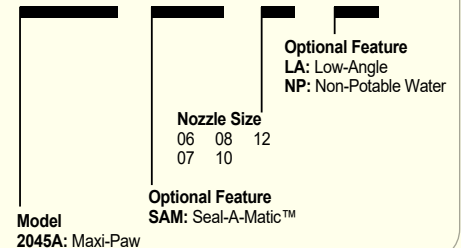
- Combination ½" or ¾" female bottom inlet
- ½" female side inlet
- Nozzle outlet trajectory is 23°
- LA nozzle outlet trajectory is 11°
- Side inlet installation is not recommended in freezing climates
- Optional SAM feature holds back up to 10 ft (3.1 m) of elevation change

MODELS:

- 2045A Maxi-Paw
- 2045A Maxi-Paw-SAM
- 2045 Maxi-Paw-SAM-NP

How To Specify

2045A - SAM - 10 - LA



AVAILABLE NOZZLES:

Standard Trajectory

06, 07, 08, 10, 12

Low-Angle

07LA, 10LA

MAXI-PAW / MAXI-PAW SAM 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 / MAXI-PAW SAM PERFORMANCE METRIC

PRESSURE (BAR)	NOZZLE	RADIUS (M)	FLOW (M ³ /H)	FLOW (L/M)	■	▲
					PRECIP (MM/H)	PRECIP (MM/H)
2.0	● 06	-	-	-	-	-
	● 07 LA	6.8	0.38	6.0	16	19
	● 07	10.4	0.55	9.0	10	12
	● 08	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
	● 06	11.3	0.46	7.8	7	8
	● 07 LA	7.1	0.44	7.2	17	20
	● 07	11.4	0.62	10.2	10	11
	● 08	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
	● 06	11.5	0.51	8.4	8	9
	● 07 LA	7.5	0.47	7.8	17	19
	● 07	11.8	0.67	11.4	10	11
	● 08	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
	● 06	11.6	0.55	9.0	8	9
	● 07 LA	7.6	0.50	8.4	17	20
	● 07	12.2	0.72	12.0	10	11
4.0	● 08	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
	● 06	11.6	0.58	9.6	9	10
	● 07 LA	7.6	0.54	9.0	18	21
	● 07	12.5	0.78	13.2	10	11
	● 08	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 ASAE Standards; ASAE S398.1.



2045A MAXI-PAW NOZZLES

SPECIFICATIONS:**2045A Maxi-Paw
Full- or Part-Circle
Pop-Up Rotor**

The full- or part-circle pop-up rotor sprinkler shall be a single nozzle impact drive type, capable of covering a ____ foot/meter radius at ____ pounds per square inch (PSI) or (Bars) with a discharge rate of ____ gallons per minute (gpm) or (l/s; m³/h). The part-circle sprinkler shall have an infinitely adjustable arc of coverage from 20° to 340°. Full-circle (360°) shall be accomplished by disengaging the trip mechanism of the impact drive.

The sprinkler case and internal assembly, except for the arm spring, bearing spring, wiper seal, and bearing washers, shall be constructed of durable engineered plastics. The rotation of the sprinkler shall be accomplished by a double-weighted, horizontal-oscillating Precision Jet (PJ™) arm, actuated by the outlet water stream. The double-weighted arm shall provide for a slower rotation speed and increased distance of throw.

The sprinkler shall have an adjustable diffuser pin for distance and distribution control and shall be capable of full- or part-circle operation. The sprinkler nozzle outlet trajectory shall be 23° for the standard nozzles and 11° for the low-angle nozzles.

The sprinkler shall have a strong, stainless steel retract spring for positive pop-down. Pop-up height shall be 3 in (7.6 cm).

The sprinkler shall have a multi-function, pressure-activated wiper seal for low pressure operation and for cleaning debris from the riser as it retracts into the case.

The sprinkler shall have a ½" (FNPT) side and a combination ½" or ¾" (FNPT) bottom inlet for installation flexibility and a bottom inlet screen to protect nozzle from clogging. The case shall have a sturdy, reinforced rib design with flange.

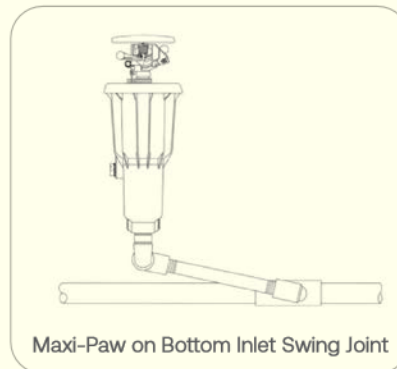
The sprinkler shall accept seven interchangeable, color-coded nozzles.

The sprinkler shall be as manufactured by Rain Bird Corporation.

**2045A-SAM
Full- or Part-Circle
Maxi-Paw Pop-Up Rotor
with Seal-A-Matic****Optional Feature Specifications**

When so indicated on the design, the full- or part-circle pop-up rotor sprinkler shall have all the specifications of the standard version with a Seal-A-Matic (SAM) check valve to prevent low head drainage for elevation differences up to 10 ft (3.1 m).

The sprinkler shall be as manufactured by Rain Bird Corporation.



Maxi-Paw on Bottom Inlet Swing Joint

Rain Bird Corporation

6991 E. Southpoint Road
Tucson, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

Rain Bird Corporation

970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (626) 812-3400
Fax: (626) 812-3411