

2045-PJ Maxi-Bird™

Full- or Part-Circle Impact Sprinkler

Primary Applications:

1/2" (15/21) riser-mounted impact head used for slope and large-area, above-grade applications.

Features and Benefits:

- Proven impact drive.
- Double-weighted arm for slower rotation and increased distance of throw.
- Straight-through flow for superior performance in dirty water.
- Adjustable arm spring for low-pressure and low-gallonage operation.
- Precision Jet tube (PJ™) minimizes side splash.
- 5 Matched Precipitation Rate (MPR) nozzles and 2 low-angle (LA) nozzles.
- Interchangeable, color-coded bayonet mount nozzles.
- No tools required to change nozzles.
- FP trip permits full- or part-circle operation (20° to 340°)
- Powerful reverse action.

Models:

- 2045-PJ-08 Maxi-Bird

Specifications:

- Precipitation Rate: 0.28 to 1.21 inches per hour (7 to 31 mm/h)
- Radius: 22 to 45 feet (6,7 to 13,7 m)
- Radius with Radius Reduction Screw: 18 feet (5,4 m)
- Pressure: 25 to 60 psi (1,7 to 4,1 Bars)
- Flow: 1.5 to 8.4 GPM (0,34 to 1,91 m³/h; 0,09 to 0,53 l/s)
- 1/2" (15/21) male threaded inlet nozzles:
- Standard trajectory angle nozzles: 06-red; 07-black; 08-blue; 10-yellow; 12-beige
- Nozzle outlet trajectory is 23° for 06, 07, 08, 10, and 12 nozzles.
- Low angle (LA) nozzles: 07 LA-black; 10 LA-yellow
- LA nozzle outlet trajectory is 11°.



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Helpful Tools



[Performance Charts](#)



[Replacement Parts List](#)
(PDF: 86 KB)



[Impact Troubleshooting Guide](#) (PDF: 128 KB)



[2045-PJ Below Grade](#)
(DWG: 78 KB)



[2045-PJ Bottom of Slope](#)
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[2045-PJ On Grade](#)
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[2045-PJ On Slope](#)
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Performance Charts

2045-PJ Maxi-Bird™

English					
Pressure (psi)	Nozzle	Radius (ft.)	Flow (GPM)	Precipitation (In/h) ■	Precipitation (In/h) ▲
25	6	-	-	-	-
	07 LA	22	1.5	0.6	0.69
	7	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
	12	39	5.5	0.7	0.8
35	6	37	2	0.28	0.32
	07 LA	23	1.9	0.69	0.8
	7	37	2.7	0.38	0.44
	08 *	38	3.3	0.44	0.51
	10 LA	29	4	0.92	1.06
	10	41	4.8	0.55	0.64
	12	42	6.3	0.69	0.79
45	6	38	2.3	0.31	0.35
	07 LA	25	2.1	0.65	0.75
	7	39	3	0.38	0.44
	08 *	40	3.7	0.45	0.51
	10 LA	31	4.5	0.9	1.04
	10	42	5.4	0.59	0.68
	12	44	7.1	0.71	0.82
55	6	38	2.5	0.33	0.39
	07 LA	25	2.3	0.71	0.82
	7	41	3.3	0.38	0.44
	08 *	41	4.1	0.47	0.54
	10 LA	32	5	0.94	1.09
	10	43	6	0.62	0.72
	12	45	7.9	0.75	0.87
60	6	38	2.6	0.35	0.4
	07 LA	25	2.4	0.74	0.85
	7	41	3.5	0.4	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	0.8	0.92

Metric						
Pressure (Bars)	Nozzle	Radius (m)	Flow (m³/h)	Flow (l/s)	Precipitation (mm/h) ■	Precipitation (mm/h) ▲
1,7	6	-	-	-	-	-
	07 LA	6,7	0,34	0,09	15	17
	7	9,8	0,50	0,14	10	12
	08 *	10,7	0,64	0,18	11	13
	10 LA	7,6	0,77	0,21	27	31
	10	11,6	0,95	0,26	14	16
	12	11,9	1,25	0,35	18	20
2,0	6	-	-	-	-	-
	07 LA	6,9	0,38	0,10	16	18
	7	10,4	0,55	0,15	10	12
	08 *	11,1	0,68	0,19	11	13
	10 LA	8,1	0,83	0,23	25	29
	10	12,0	1,01	0,28	14	16
	12	12,3	1,32	0,37	17	20
2,5	6	11,4	0,46	0,13	7	8
	07 LA	7,1	0,42	0,12	17	19
	7	11,0	0,60	0,17	10	11
	08 *	11,5	0,75	0,21	11	13
	10 LA	8,7	0,91	0,25	24	28
	10	12,3	1,11	0,31	15	17
	12	12,7	1,45	0,40	18	21
3,0	6	11,5	0,51	0,14	8	9
	07 LA	7,4	0,46	0,13	17	19
	7	11,7	0,66	0,18	10	11
	08 *	12,0	0,82	0,23	11	13
	10 LA	9,2	1,00	0,28	24	27
	10	12,7	1,21	0,33	15	17
	12	13,2	1,58	0,44	18	21
3,5	6	11,6	0,55	0,15	8	9
	07 LA	7,6	0,50	0,14	17	20
	7	12,2	0,72	0,20	10	11
	08 *	12,4	0,89	0,25	12	13

	10 LA	9,6	1,09	0,30	24	27
	10	13,0	1,31	0,36	16	18
	12	13,6	1,72	0,48	19	22
4,0	6	11,6	0,58	0,16	9	10
	07 LA	7,6	0,54	0,15	19	21
	7	12,5	0,78	0,22	10	12
	08 *	12,7	0,94	0,26	12	14
	10 LA	9,8	1,19	0,33	25	29
	10	13,3	1,42	0,39	16	19
	12	13,7	1,86	0,52	20	23
4,1	6	11,6	0,59	0,16	9	10
	07 LA	7,6	0,54	0,15	19	22
	7	12,5	0,79	0,22	10	12
	08 *	12,8	0,95	0,26	12	13
	10 LA	9,8	1,23	0,34	26	30
	10	13,4	1,45	0,40	16	19
	12	13,7	1,91	0,53	20	24

Precipitation Rates based on half-circle operation.

■ Square spacing based on 50% diameter of throw.

▲ Triangular spacing based on 50% diameter of throw.

* Standard Nozzle Size

Performance data collected in zero wind conditions.