



K8000 Smartset® Rotary Sprinkler Performance Data

Model Numbers: 81031, 18103 • Arc Adjust: 40-360 • Drive Type: Gear • Warranty: 5 years

Standard Performance Data:

26 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
				■	▲
0.5	30	28	0.5	0.06	0.07
	40	29	0.6	0.07	0.08
	50	29	0.7	0.08	0.09
	60	30	0.8	0.09	0.10
0.75	30	29	0.7	0.08	0.09
	40	30	0.8	0.09	0.10
	50	31	0.9	0.09	0.10
1	60	32	1.0	0.09	0.11
	30	32	1.3	0.12	0.14
	40	33	1.5	0.13	0.15
2	50	34	1.6	0.13	0.15
	60	35	1.8	0.14	0.16
	30	37	2.4	0.17	0.19
2.5	40	40	2.5	0.15	0.17
	50	42	3.0	0.16	0.19
	60	43	3.3	0.17	0.20
	30	38	2.5	0.17	0.19
Pre-Installed	40	39	2.8	0.18	0.20
	50	40	3.2	0.19	0.22
	60	41	3.5	0.20	0.23
3	30	38	3.6	0.24	0.28
	40	39	4.2	0.27	0.31
	50	41	4.6	0.26	0.30
4	60	42	5.0	0.27	0.32
	30	43	4.4	0.23	0.26
	40	44	5.1	0.25	0.29
6	50	46	5.6	0.25	0.29
	60	49	5.9	0.24	0.27
	40	45	5.9	0.28	0.32
	50	46	6.0	0.27	0.32
8	60	48	6.3	0.26	0.30
	70	49	6.7	0.27	0.31
	40	42	8.0	0.44	0.50
	50	45	8.5	0.40	0.47
70	60	49	9.5	0.38	0.44
	70	50	10.0	0.39	0.44

Metric Performance Data:

26 degree trajectory

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
				■	▲
0.5	2.0	8.5	1.9	1.6	1.8
	3.0	8.8	2.3	1.7	2.0
	3.5	8.8	2.6	2.0	2.3
	4.0	9.1	3.0	2.2	2.5
0.75	2.0	8.8	2.6	2.0	2.3
	3.0	9.1	3.0	2.2	2.5
	3.5	9.4	3.4	2.3	2.6
1	4.0	9.8	3.8	2.4	2.8
	2.0	9.8	4.9	3.1	3.6
	3.0	10.1	5.7	3.4	3.9
2	3.5	10.4	6.1	3.4	3.9
	4.0	10.7	6.8	3.6	4.1
	2.0	11.3	9.1	4.3	4.9
	3.0	12.2	9.5	3.8	4.4
2.5	3.5	12.8	11.4	4.2	4.8
	4.0	13.1	12.5	4.4	5.0
	2.0	11.6	9.5	4.2	4.9
	3.0	11.9	10.6	4.5	5.2
Pre-Installed	3.5	12.2	12.1	4.9	5.6
	4.0	12.5	13.2	5.1	5.9
	2.0	11.6	13.6	6.1	7.0
	3.0	11.9	15.9	6.8	7.8
3	3.5	12.5	17.4	6.7	7.7
	4.0	12.8	18.9	6.9	8.0
	2.0	13.1	16.7	5.8	6.7
	3.0	13.4	19.3	6.4	7.4
4	3.5	14.0	21.2	6.5	7.5
	4.0	14.9	22.3	6.0	6.9
	2.0	13.1	16.7	5.8	6.7
	3.0	13.4	19.3	6.4	7.4
6	3.5	14.0	22.7	6.9	8.0
	4.0	14.6	23.8	6.7	7.7
	2.0	14.9	25.4	6.8	7.9
	3.0	13.7	22.3	7.1	8.2
8	3.5	14.0	22.7	6.9	8.0
	4.0	14.6	23.8	6.7	7.7
	2.0	14.9	25.4	6.8	7.9
	3.0	12.8	30.3	11.1	12.8
70	3.5	13.7	32.2	10.3	11.8
	4.0	14.9	36.0	9.7	11.2
	5.0	15.2	37.9	9.8	11.3

Low Angle Standard Performance Data

12 degree trajectory

Nozzle	Pressure (PSI)	Radius (ft)	Flow (GPM)	Precip (IN/HR)	Precip (IN/HR)
				■	▲
1	30	22	1.2	0.24	0.28
	40	24	1.7	0.28	0.33
	50	26	1.8	0.26	0.30
	60	28	2.0	0.25	0.28
3	30	29	3.0	0.34	0.40
	40	32	3.1	0.29	0.34
	50	35	3.5	0.28	0.32
4	60	37	3.8	0.27	0.31
	30	31	3.4	0.34	0.39
	40	34	3.9	0.32	0.37
6	50	37	4.4	0.31	0.36
	60	38	4.7	0.31	0.36
	40	38	6.5	0.43	0.50
	50	40	7.3	0.44	0.51
70	60	42	8.0	0.44	0.50
	70	44	8.6	0.43	0.49

Low Angle Metric Performance Data

12 degree trajectory

Nozzle	Pressure (bar)	Radius (meter)	Flow (l/m)	Precip (mm/hr)	Precip (mm/hr)
				■	▲
1	2.0	6.7	4.5	6.1	7.0
	3.0	7.3	6.4	7.2	8.3
	3.5	7.9	6.8	6.5	7.5
	4.0	8.5	7.6	6.2	7.2
3	2.0	8.8	11.4	8.7	10.1
	3.0	9.8	11.7	7.4	8.5
	3.5	10.7	13.2	7.0	8.1
4	4.0	11.3	14.4	6.8	7.8
	2.0	9.4	12.9	8.6	10.0
	3.0	10.4	14.8	8.2	9.5
	3.5	11.3	16.7	7.9	9.1
6	4.0	11.6	17.8	8.0	9.2
	3.0	11.6	24.6	11.0	12.7
	3.5	12.2	27.6	11.2	12.9
	4.0	12.8	30.3	11.1	12.8
70	5.0	13.4	32.6	10.9	12.5

All precipitation rates are calculated at 360 degrees. For precipitation rates at 180 degrees, multiply by 2. Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with nozzle retention screw.