

# Rain Bird Complete Nozzle Solutions



## ROTARY NOZZLES

Use with 1800-P45 or RD1800-P45



## HE-VAN SERIES NOZZLES

Use with 1800-PRS or RD1800-PRS



## VAN SERIES NOZZLES

Use with 1800 or 1800-PRS



## MPR SERIES NOZZLES

Use with 1800 or 1800-PRS

### Adjustable Arc Nozzles (45° to 270°)

R-VAN14 8' - 14'						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
270°	30	13	0.84	0.64	0.76	0.76
	35	13	0.87	0.66	0.74	0.74
	40	14	0.92	0.66	0.71	0.71
	45	14	0.94	0.62	0.70	0.70
	50	15	1.11	0.63	0.73	0.73
	55	15	1.17	0.67	0.77	0.77
210°	30	13	0.65	0.64	0.76	0.76
	35	13	0.68	0.66	0.74	0.74
	40	14	0.71	0.66	0.71	0.71
	45	14	0.73	0.62	0.70	0.70
	50	15	0.86	0.63	0.73	0.73
	55	15	0.91	0.67	0.77	0.77
180°	30	13	0.56	0.64	0.76	0.76
	35	13	0.58	0.66	0.74	0.74
	40	14	0.61	0.66	0.71	0.71
	45	14	0.63	0.62	0.70	0.70
	50	15	0.74	0.63	0.73	0.73
	55	15	0.78	0.67	0.77	0.77
90°	30	13	0.28	0.64	0.76	0.76
	35	13	0.29	0.66	0.74	0.74
	40	14	0.31	0.62	0.71	0.71
	45	14	0.32	0.61	0.70	0.70
	50	15	0.37	0.63	0.73	0.73
	55	15	0.39	0.67	0.77	0.77

R-VAN18 13' - 18'						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
270°	30	16	1.26	0.65	0.75	0.75
	35	16	1.35	0.64	0.74	0.74
	40	17	1.42	0.63	0.73	0.73
	45	17	1.51	0.64	0.73	0.73
	50	18	1.57	0.60	0.69	0.69
	55	18	1.62	0.60	0.69	0.69
210°	30	16	0.98	0.63	0.73	0.73
	35	16	1.05	0.68	0.78	0.78
	40	17	1.10	0.63	0.73	0.73
	45	17	1.17	0.64	0.77	0.77
	50	18	1.22	0.62	0.72	0.72
	55	18	1.26	0.64	0.74	0.74
180°	30	16	0.85	0.65	0.75	0.75
	35	16	0.91	0.66	0.74	0.74
	40	17	0.98	0.63	0.73	0.73
	45	17	1.01	0.64	0.73	0.73
	50	18	1.07	0.60	0.69	0.69
	55	18	1.09	0.60	0.69	0.69
90°	30	16	0.42	0.65	0.75	0.75
	35	16	0.47	0.64	0.74	0.74
	40	17	0.50	0.63	0.73	0.73
	45	17	0.50	0.64	0.73	0.73
	50	18	0.54	0.60	0.69	0.69
	55	18	0.58	0.60	0.69	0.69

R-VAN24 17' - 24'						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
270°	30	19	1.80	0.64	0.74	0.74
	35	20	1.95	0.63	0.72	0.72
	40	22	2.31	0.61	0.71	0.71
	45	23	2.52	0.61	0.71	0.71
	50	24	2.82	0.63	0.73	0.73
	55	24	2.88	0.64	0.74	0.74
210°	30	19	1.40	0.64	0.74	0.74
	35	20	1.52	0.63	0.72	0.72
	40	22	1.80	0.61	0.71	0.71
	45	23	1.96	0.61	0.71	0.71
	50	24	2.19	0.63	0.73	0.73
	55	24	2.24	0.64	0.74	0.74
180°	30	19	1.20	0.64	0.74	0.74
	35	20	1.30	0.63	0.72	0.72
	40	22	1.54	0.61	0.71	0.71
	45	23	1.68	0.61	0.71	0.71
	50	24	1.88	0.63	0.73	0.73
	55	24	1.92	0.64	0.74	0.74
90°	30	19	0.60	0.63	0.72	0.72
	35	20	0.65	0.63	0.72	0.72
	40	22	0.77	0.61	0.71	0.71
	45	23	0.84	0.61	0.71	0.71
	50	24	0.94	0.63	0.73	0.73
	55	24	0.96	0.64	0.74	0.74

### Full Circle Nozzles (360°)

R-VAN14 8' - 14'						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
360°	30	13	1.10	0.63	0.72	0.72
	35	13	1.12	0.64	0.74	0.74
	40	14	1.22	0.60	0.69	0.69
	45	14	1.27	0.62	0.70	0.70
	50	15	1.41	0.60	0.70	0.70
	55	15	1.45	0.62	0.72	0.72

R-VAN18 13' - 18'						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
360°	30	16	1.65	0.62	0.72	0.72
	35	16	1.67	0.63	0.73	0.73
	40	17	1.80	0.60	0.69	0.69
	45	17	1.85	0.62	0.71	0.71
	50	18	2.05	0.61	0.70	0.70
	55	18	2.11	0.63	0.72	0.72

### Strip Nozzles (Left Corner, Side, Right Corner)

R-VAN-LCS 5' x 15'						
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
Left Corner	30	4'x14'	0.18	0.62	0.62	0.62
Strip	35	5'x15'	0.22	0.56	0.56	0.56
Right Corner	40	5'x15'	0.23	0.59	0.59	0.59
Strip	45	5'x15'	0.24	0.62	0.62	0.62
Strip	50	5'x15'	0.25	0.64	0.64	0.64
Strip	55	6'x16'	0.28	0.56	0.56	0.56

R-VAN-SST 5' x 30'						
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
Side Strip	30	4'x28'	0.36	0.62	0.62	0.62
Strip	35	5'x30'	0.44	0.56	0.56	0.56
Strip	40	5'x30'	0.46	0.59	0.59	0.59
Strip	45	5'x30'	0.48	0.62	0.62	0.62
Strip	50	5'x30'	0.50	0.64	0.64	0.64
Strip	55	6'x32'	0.56	0.56	0.56	0.56

R-VAN-RCS 5' x 15'						
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
Right Corner	30	4'x14'	0.18	0.62	0.62	0.62
Strip	35	5'x15'	0.22	0.56	0.56	0.56
Strip	40	5'x15'	0.23	0.59	0.59	0.59
Strip	45	5'x15'	0.24	0.62	0.62	0.62
Strip	50	5'x15'	0.25	0.64	0.64	0.64
Strip	55	6'x16'	0.28	0.56	0.56	0.56

Note: All R-VAN nozzles tested on 4" (10.2 cm) pop-ups  
 ■ Square spacing based on 50% diameter of throw  
 ▲ Triangular spacing based on 50% diameter of throw  
 ▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS  
 ▲ Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS  
 Performance data taken in zero wind conditions  
 R-VAN24 and R-VAN24-360: "Do not reduce the radius below 17' (5.2 m)  
 R-VAN18 and R-VAN18-360: "Do not reduce the radius below 13' (4.0 m)  
 R-VAN14 and R-VAN14-360: "Do not reduce the radius below 8' (2.4 m)

8 Series HE-VAN						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
360° Arc	15	5	0.83	3.19	3.68	3.68
	20	6	0.96	2.56	2.95	2.95
	25	7	1.07	2.10	2.42	2.42
	30	8	1.17	1.76	2.03	2.03
270° Arc	15	5	0.62	3.19	3.68	3.68
	20	6	0.72	2.56	2.95	2.95
	25	7	0.80	2.10	2.42	2.42
	30	8	0.88	1.76	2.03	2.03
180° Arc	15	5	0.41	3.19	3.68	3.68
	20	6	0.48	2.56	2.95	2.95
	25	7	0.53	2.10	2.42	2.42
	30	8	0.59	1.76	2.03	2.03
90° Arc	15	5	0.21	3.19	3.68	3.68
	20	6	0.24	2.56	2.95	2.95
	25	7	0.27	2.10	2.42	2.42
	30	8	0.29	1.76	2.03	2.03

10 Series HE-VAN						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
360° Arc	15	7	1.26	2.48	2.86	2.86
	20	8	1.46	2.19	2.53	2.53
	25	9	1.63	1.94	2.24	2.24
	30	10	1.78	1.72	1.98	1.98
270° Arc	15	7	0.95	2.48	2.86	2.86
	20	8	1.09	2.19	2.53	2.53
	25	9	1.22	1.94	2.24	2.24
	30	10	1.34	1.72	1.98	1.98
180° Arc	15	7	0.63	2.48	2.86	2.86
	20	8	0.73	2.19	2.53	2.53
	25	9	0.81	1.94	2.24	2.24
	30	10	0.89	1.72	1.98	1.98
90° Arc	15	7	0.32	2.48	2.86	2.86
	20	8	0.36	2.19	2.53	2.53
	25	9	0.41	1.94	2.24	2.24
	30	10	0.45	1.72	1.98	1.98

12 Series HE-VAN						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h	Precip In/h
360° Arc	15	9	1.67	1.99	2.30	2.30
	20	10	1.93	1.86	2.15	2.15
	25	11	2.16	1.72	1.99	1.99
	30	12	2.37	1.58	1.83	1.83
270° Arc	15	9	1.25	1.99	2.30	2.30
	20	10	1.45	1.86		