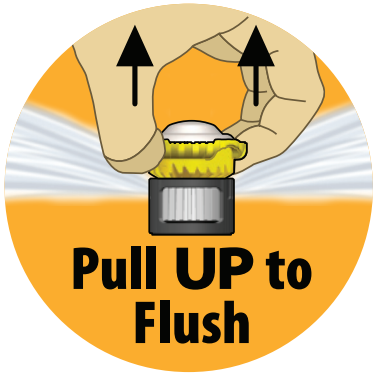
Rotary Nozzles Reference

Low-Flow / Low-Precipitation Rate

- Matched precipitation rate
- Fully hand adjustable
- No more clogging. Includes flush feature
- Thick streams + Low Trajectory = Maximum Wind Resistance
- Superior Coverage
- Use with 5000 MPR Series Rotors on the same zone for matched precipitation rate between 8' and 35'
- 3-Year Trade Warranty



R-VAN and R-Series Nozzles meet the requirements of the ASABE/ICC 802-2014 standard

The average DU(LQ) of the applicable products exceed 0.65 distribution uniformity.

Product	Type	Radius	DU(LQ)
R-VAN	Multi-stream, Variable Arc	8 - 24 ft.	> 0.70
R-Series	Multi-stream, Fixed Arc	13 - 24 ft.	> 0.70

To view the complete document of compliance for Rain Bird products that have been tested to meet the requirements of the ASABE/ICC 802-2014 standard and the California MWELO go to: www.rainbird.com/agency/california/MWELO.htm

Adjustable Arc (45° to 270°)

R-VAN14 (8' to 14')

R-VAN18 (13' to 18')

R-VAN1724 (17' to 24')

Full Circle (360°)

R1318F (13' to 18')

R1724F (17' to 24')

RAIN BIRD®

Rotary Nozzle Performance Data

Adjustable Arc Nozzles

R-VAN14 (8' - 14')

Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h) ■	Precip. (in/h) ▲
270°	30	13	0.87	0.66	0.76
	35	13	0.84	0.64	0.74
	40	14	0.94	0.62	0.71
	45	**14**	**0.92**	**0.60**	**0.70**
	50	15	1.11	0.63	0.73
	55	15	1.17	0.67	0.77
240°	30	13	0.77	0.66	0.76
	35	13	0.75	0.64	0.74
	40	14	0.84	0.62	0.71
	45	**14**	**0.82**	**0.60**	**0.70**
	50	15	0.99	0.63	0.73
	55	15	1.04	0.67	0.77
210°	30	13	0.68	0.66	0.76
	35	13	0.65	0.64	0.74
	40	14	0.73	0.62	0.71
	45	**14**	**0.72**	**0.60**	**0.70**
	50	15	0.86	0.63	0.73
	55	15	0.91	0.67	0.77
180°	30	13	0.58	0.66	0.76
	35	13	0.56	0.64	0.74
	40	14	0.63	0.62	0.71
	45	**14**	**0.61**	**0.60**	**0.70**
	50	15	0.74	0.63	0.73
	55	15	0.78	0.67	0.77
150°	30	13	0.48	0.66	0.76
	35	13	0.47	0.64	0.74
	40	14	0.52	0.62	0.71
	45	**14**	**0.51**	**0.60**	**0.70**
	50	15	0.62	0.63	0.73
	55	15	0.65	0.67	0.77
120°	30	13	0.39	0.66	0.76
	35	13	0.37	0.64	0.74
	40	14	0.42	0.62	0.71
	45	**14**	**0.41**	**0.60**	**0.70**
	50	15	0.49	0.63	0.73
	55	15	0.52	0.67	0.77
90°	30	13	0.29	0.66	0.76
	35	13	0.28	0.64	0.74
	40	14	0.31	0.62	0.71
	45	**14**	**0.31**	**0.60**	**0.70**
	50	15	0.37	0.63	0.73
	55	15	0.39	0.67	0.77
60°	30	13	0.19	0.66	0.76
	35	13	0.19	0.64	0.74
	40	14	0.21	0.62	0.71
	45	**14**	**0.20**	**0.60**	**0.70**
	50	15	0.25	0.63	0.73
	55	15	0.26	0.67	0.77
45°	30	13	0.15	0.66	0.76
	35	13	0.14	0.64	0.74
	40	14	0.16	0.62	0.71
	45	**14**	**0.15**	**0.60**	**0.70**
	50	15	0.19	0.63	0.73
	55	15	0.20	0.67	0.77

Recommended Operating Pressure: 45 psi

R-VAN18 (13' - 18')

Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h) ■	Precip. (in/h) ▲
270°	30	16	1.26	0.65	0.75
	35	16	1.35	0.64	0.74
	40	17	1.42	0.63	0.73
	45	**17**	**1.51**	**0.64**	**0.73**
	50	18	1.57	0.60	0.69
	55	18	1.62	0.60	0.69
240°	30	16	1.12	0.63	0.73
	35	16	1.20	0.68	0.78
	40	17	1.26	0.63	0.73
	45	**17**	**1.34**	**0.64**	**0.77**
	50	18	1.40	0.62	0.72
	55	18	1.44	0.64	0.74
210°	30	16	0.98	0.63	0.73
	35	16	1.05	0.68	0.78
	40	17	1.10	0.63	0.73
	45	**17**	**1.17**	**0.64**	**0.77**
	50	18	1.22	0.62	0.72
	55	18	1.26	0.64	0.74
180°	30	16	0.85	0.65	0.75
	35	16	0.91	0.64	0.74
	40	17	0.98	0.63	0.73
	45	**17**	**1.01**	**0.64**	**0.73**
	50	18	1.07	0.60	0.69
	55	18	1.09	0.60	0.69
150°	30	16	0.71	0.64	0.74
	35	16	0.76	0.68	0.79
	40	17	0.82	0.65	0.75
	45	**17**	**0.84**	**0.64**	**0.78**
	50	18	0.89	0.64	0.73
	55	18	0.91	0.65	0.75
120°	30	16	0.57	0.64	0.74
	35	16	0.61	0.68	0.79
	40	17	0.65	0.65	0.75
	45	**17**	**0.67**	**0.64**	**0.78**
	50	18	0.71	0.64	0.73
	55	18	0.73	0.65	0.75
90°	30	16	0.42	0.65	0.75
	35	16	0.47	0.64	0.74
	40	17	0.50	0.63	0.73
	45	**17**	**0.50**	**0.64**	**0.73**
	50	18	0.54	0.60	0.69
	55	18	0.58	0.60	0.69
60°	30	16	0.28	0.63	0.73
	35	16	0.31	0.71	0.82
	40	17	0.33	0.67	0.77
	45	**17**	**0.33**	**0.64**	**0.77**
	50	18	0.36	0.64	0.74
	55	18	0.39	0.69	0.80
45°	30	16	0.21	0.63	0.73
	35	16	0.24	0.71	0.82
	40	17	0.25	0.67	0.77
	45	**17**	**0.25**	**0.64**	**0.77**
	50	18	0.27	0.64	0.74
	55	18	0.29	0.69	0.80

For best results, use pressure-regulated Rain Bird PRS45 Spray Heads.

R-VAN1724 (17' - 24')

Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h) ■	Precip. (in/h) ▲
270°	30	21	2.26	0.70	0.81
	35	22	2.39	0.66	0.76
	40	23	2.55	0.63	0.73
	45	**23**	**2.73**	**0.64**	**0.73**
	50	24	2.76	0.61	0.70
	55	24	2.80	0.61	0.70
240°	30	21	2.15	0.70	0.81
	35	22	2.20	0.66	0.76
	40	23	2.30	0.63	0.73
	45	**23**	**2.35**	**0.64**	**0.73**
	50	24	2.42	0.61	0.70
	55	24	2.45	0.61	0.70
210°	30	21	1.87	0.70	0.81
	35	22	1.93	0.66	0.76
	40	23	2.02	0.63	0.73
	45	**23**	**2.06**	**0.64**	**0.73**
	50	24	2.13	0.61	0.70
	55	24	2.14	0.61	0.70
180°	30	21	1.41	0.70	0.81
	35	22	1.55	0.66	0.76
	40	23	1.69	0.63	0.73
	45	**23**	**1.83**	**0.64**	**0.73**
	50	24	1.91	0.61	0.70
	55	24	1.98	0.61	0.70
150°	30	21	1.34	0.70	0.81
	35	22	1.38	0.66	0.76
	40	23	1.44	0.63	0.73
	45	**23**	**1.46**	**0.64**	**0.73**
	50	24	1.53	0.61	0.70
	55	24	1.52	0.61	0.70
120°	30	21	1.07	0.70	0.81
	35	22	1.10	0.66	0.76
	40	23	1.15	0.63	0.73
	45	**23**	**1.17**	**0.64**	**0.73**
	50	24	1.22	0.61	0.70
	55	24	1.22	0.61	0.70
90°	30	21	0.73	0.70	0.81
	35	22	0.78	0.66	0.76
	40	23	0.85	0.63	0.73
	45	**23**	**0.91**	**0.64**	**0.73**
	50	24	0.98	0.61	0.70
	55	24	1.05	0.61	0.70
60°	30	21	0.53	0.70	0.81
	35	22	0.55	0.66	0.76
	40	23	0.58	0.63	0.73
	45	**23**	**0.58**	**0.64**	**0.73**
	50	24	0.61	0.61	0.70
	55	24	0.61	0.61	0.70
45°	30	21	0.40	0.70	0.81
	35	22	0.42	0.66	0.76
	40	23	0.43	0.63	0.73
	45	**23**	**0.44**	**0.64**	**0.73**
	50	24	0.46	0.61	0.70
	55	24	0.46	0.61	0.70

Full Circle Nozzles

R1318F (13' - 18')

Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h) ■	Precip. (in/h) ▲
360°	30	16	1.60	0.61	0.70
	35	16	1.73	0.61	0.70
	40	17	1.85	0.61	0.70
	45	**18**	**1.96**	**0.61**	**0.70**
	50	18	2.07	0.61	0.70
	55	18	2.17	0.61	0.70

R1724F (17' - 24')

Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in/h) ■	Precip. (in/h) ▲
360°	30	21	3.00	0.65	0.75
	35	22	3.24	0.65	0.75
	40	23	3.46	0.65	0.75
	45	**23**	**3.67**	**0.65**	**0.75**
	50	24	3.87	0.65	0.75
	55	24	4.06	0.65	0.75

Note: *All Rotary nozzles tested on 4" (10.2 cm) pop-ups*

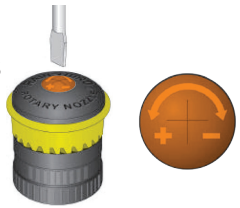
■ *Square spacing based on 50% diameter of throw*

▲ *Triangular spacing based on 50% diameter of throw*

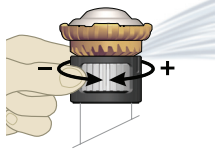
Performance data taken in zero wind conditions

- *R-VAN1724 and R1724F: Do not reduce the radius below 17'.*
- *R-VAN18 and R1318F: Do not reduce the radius below 13'.*
- *R-VAN14: Do not reduce the radius below 8'.*
- *Includes interpolation*

Full-Circle Radius Adjustment:



R-VAN Radius Adjustment:



R-VAN Arc Adjustment: