

R-VAN Nozzles

High Efficiency, Multi-Stream

Rain Bird® R-VAN Adjustable Rotary Nozzles save more water, are easier to use, and are lower priced compared to leading rotating nozzles. R-VANs thick streams and large water droplets cut through the wind to deliver water where you want it. R-VANs are easier to use thanks to its hand-adjustable arc and radius.

Features

- Matched precipitation across radius, arcs, and pattern types
- Low precipitation rate reduces run-off and erosion
- Adjust arc and radius without tools
- A pull-up to flush feature clears the nozzle of dirt and debris
- Maintains efficient performance at high operating pressures without misting or fogging
- Compatible with all models of Rain Bird spray bodies, risers and adapters
- Installing with Rain Bird 5000 MPR Series Rotors allows for matched precipitation from 8' to 35' (2.4m to 10.7m)
- Three year trade warranty

Operating Specifications

- Pressure Range: 30 to 55 psi (2.1 to 3.8 bar)
- Recommended Operating Pressure: 45 psi (3.1 bar)
- Spacing: 8' to 24' (2.4 to 7.3m)
- Adjustments: Arc and radius should be adjusted while water is running

Models

8' - 14' (2.4 to 4.6m)

- R-VAN14: 45° - 270° Adjustable Arc
- R-VAN14-360: 360° Full Circle

13' - 18' (4.0 to 5.5m)

- R-VAN18: 45° - 270° Adjustable Arc
- R-VAN18-360: 360° Full Circle

17' - 24' (5.2 to 7.3m)

- R-VAN24: 45° - 270° Adjustable Arc
- R-VAN24-360: 360° Full Circle

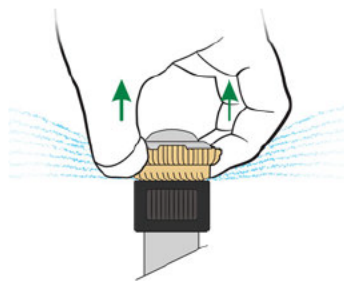
Strip Nozzles

- R-VAN-LCS: 5' x 15' (1.5 x 4.6m) Left Corner Strip
- R-VAN-RCS: 5' x 15' (1.5 x 4.6m) Right Corner Strip
- R-VAN-SST: 5' x 30' (1.5 x 9.1m) Side Strip

¹ Rain Bird recommends using 1800 P45 Spray Bodies to maintain optimum nozzle performance



R-VAN Nozzles



Pull Up HARD
to Flush

For Optimum Performance, Use
Rain Bird 1800 45 PSI Regulated or
RD1800 45 PSI Regulated Spray Bodies



How to Specify

R-VAN 18-360

Radius Range

8' - 14' (2.4 to 4.6m)

R-VAN14: 45° - 270°

R-VAN14-360: 360°

13' - 18' (4.0 to 5.5m)

R-VAN18: 45° - 270°

R-VAN18-360: 360°

17' - 24' (5.2 to 7.3m)

R-VAN24: 45° - 270°

R-VAN24-360: 360°

Strip Nozzles

R-VAN-LCS: 5' x 15' (1.5 x 4.6m)

R-VAN-RCS: 5' x 15' (1.5 x 4.6m)

R-VAN-SST: 5' x 30' (1.5 x 9.1m)

Model

R-VAN Adjustable Rotary Nozzle



R-VAN 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	8 - 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/mwebo

8' to 14'
(2.4m to 4.6m)

13' to 18'
(4.0m to 5.5m)

17' to 24'
(5.2m to 7.3m)

Strip Nozzles



R-VAN14
45° - 270°



R-VAN14-360
360°



R-VAN18
45° - 270°



R-VAN18-360
360°



R-VAN24
45° - 270°



R-VAN24-360
360°



R-VAN-LCS
5' x 15'
Left Corner Strip

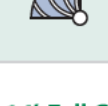


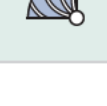
R-VAN-SST
5' x 30'
Side Strip



R-VAN-RCS
5' x 15'
Right Corner Strip

8' - 14' Adjustable Arc Nozzles (45° to 270°)

R-VAN14 8' - 14'					
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h
	30	13	0.84	0.64	0.76
	35	13	0.87	0.66	0.74
	40	14	0.92	0.60	0.71
	45	14	0.94	0.62	0.70
	50	15	1.11	0.63	0.73
	55	15	1.17	0.67	0.77
	30	13	0.65	0.64	0.76
	35	13	0.68	0.66	0.74
	40	14	0.72	0.60	0.71
	45	14	0.73	0.62	0.70
	50	15	0.86	0.63	0.73
	55	15	0.91	0.67	0.77
	30	13	0.56	0.64	0.76
	35	13	0.58	0.66	0.74
	40	14	0.61	0.60	0.71
	45	14	0.63	0.62	0.70
	50	15	0.74	0.63	0.73
	55	15	0.78	0.67	0.77
	30	13	0.28	0.64	0.76
	35	13	0.29	0.66	0.74
	40	14	0.31	0.62	0.71
	45	14	0.32	0.61	0.70
	50	15	0.37	0.63	0.73
	55	15	0.39	0.67	0.77

R-VAN14 2.4 to 4.6m					
Nozzle	Pressure bar	Radius m	Flow l/m	Precip mm/h	Precip mm/h
	2.1	4.0	3.18	16	19
	2.4	4.0	3.29	17	19
	2.8	4.3	3.48	15	18
	3.1	4.3	3.56	16	18
	3.4	4.6	4.20	16	19
	3.8	4.6	4.43	17	20
	2.1	4.0	2.46	16	19
	2.4	4.0	2.57	17	19
	2.8	4.3	2.73	15	18
	3.1	4.3	2.76	16	18
	3.4	4.6	3.26	16	19
	3.8	4.6	3.44	17	20
	2.1	4.0	2.12	16	19
	2.4	4.0	2.20	17	19
	2.8	4.3	2.31	15	18
	3.1	4.3	2.38	16	18
	3.4	4.6	2.80	16	19
	3.8	4.6	2.95	17	20
	2.1	4.0	1.06	16	19
	2.4	4.0	1.10	17	19
	2.8	4.3	1.17	16	18
	3.1	4.3	1.21	15	18
	3.4	4.6	1.40	16	19
	3.8	4.6	1.48	17	20

8' - 14' Full Circle Nozzles (360°)

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

R-VAN14-360 2.4 to 4.6m					
Nozzle	Pressure bar	Radius m	Flow l/m	Precip mm/h	Precip mm/h
	2.1	4.0	4.16	16	18
	2.4	4.0	4.24	16	19
	2.8	4.3	4.62	15	18
	3.1	4.3	4.81	16	18
	3.4	4.6	5.34	15	18
	3.8	4.6	5.49	16	18

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

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)

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
Left	30	4'x14'	0.18	0.62	0.62
Corner	35	5'x15'	0.22	0.56	0.56
Strip	40	5'x15'	0.23	0.59	0.59
 45	50	5'x15'	0.24	0.62	0.62
	55	6'x16'	0.25	0.64	0.64
			0.28	0.56	0.56

R-VAN-SST 5' x 30'					
Nozzle	Pressure psi	Size ft.	Flow gpm	Precip In/h	Precip In/h
Side	30	4'x28'	0.36	0.62	0.62
Strip	35	5'x30'	0.44	0.56	0.56
	40	5'x30'	0.46	0.59	0.59
 45	50	5'x30'	0.48	0.62	0.62
	55	6'x32'	0.50	0.64	0.64
			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
Right	30	4'x14'	0.18	0.62	0.62
Corner	35	5'x15'	0.22	0.56	0.56
Strip	40	5'x15'	0.23	0.59	0.59
 45	50	5'x15'	0.24	0.62	0.62
	55	6'x16'	0.25	0.64	0.64
			0.28	0.56	0.56

Note: All R-VAN nozzles tested on 4" (10.2 cm) pop-ups
Performance data taken in zero wind conditions

R-VAN-LCS 1.5 x 4.6m					
Nozzle	Pressure bar	Size m	Flow l/m	Precip mm/h	Precip mm/h
Left	2.1	1.2x4.3	0.68	16	16
Corner	2.4	1.5x4.6	0.83	14	14
Strip	2.8	1.5x4.6	0.87	15	15
 3.1	3.4	1.5x4.6	0.91	16	16
	3.8	1.8x4.9	1.06	16	16
				14	14

R-VAN-SST 1.5 x 9.1m					
Nozzle	Pressure bar	Size m	Flow l/m	Precip mm/h	Precip mm/h
Side	2.1	1.2x8.5	1.36	16	16
Strip	2.4	1.5x9.1	1.67	14	14
	2.8	1.5x9.1	1.74	15	15
 3.1	3.4	1.5x9.1	1.82	16	16
	3.8	1.8x9.8	2.12	16	14

R-VAN-RCS 1.5 x 4.6m					
Nozzle	Pressure bar	Size m	Flow l/m	Precip mm/h	Precip mm/h
Right	2.1	1.2x4.3	0.68	16	16
Corner	2.4	1.5x4.6	0.83	14	14
Strip	2.8	1.5x4.6	0.87	15	15
 3.1	3.4	1.5x4.6	0.91	16	16
	3.8	1.8x4.9	1.06	14	14

— Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS
▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

Easy Adjustments

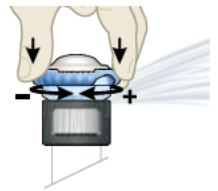
Adjustable Arc Nozzles

R-VAN14, R-VAN18, R-VAN24

RADIUS ADJUSTMENT



ARC ADJUSTMENT



Full Circle Nozzles

R-VAN14-360, R-VAN18-360,
RVAN24-360

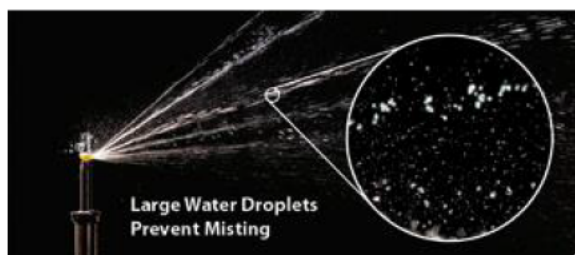
RADIUS ADJUSTMENT



Strip Nozzles

R-VAN-LCS, R-VAN-RCS,
R-VAN-SST

SIZE ADJUSTMENT



Improving Watering Efficiencies Up to 30%

- Gentle, rotating streams create uniform coverage at lower precipitation rates
- Multi-stream technology optimizes absorption for healthier lawns
- Larger droplets and thicker streams cut through wind and keep water in target zone