

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 2.4m to 10.7m
- Three year trade warranty

Operating Specifications

- Pressure Range: 2.1 to 3.8 bar
- Recommended Operating Pressure: 3.1 bar
- Spacing: 2.4 to 7.3m
- Adjustments: Arc and radius should be adjusted while water is running

Models

2.4 to 4.6m

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

4.0 to 5.5m

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

5.2 to 7.3m

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

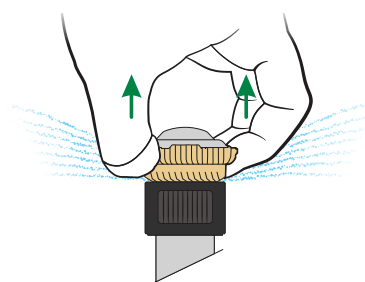
Strip Nozzles

- R-VAN-LCS: 1.5 x 4.6m Left Corner Strip
- R-VAN-RCS: 1.5 x 4.6m Right Corner Strip
- R-VAN-SST: 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 3.1 Bar Regulated or
RD1800 3.1 Bar Regulated Spray Bodies



How to Specify

R-VAN 18-360

Radius Range 2.4 to 4.6m

R-VAN14: 45° - 270°
R-VAN14-360: 360°

4.0 to 5.5m

R-VAN18: 45° - 270°
R-VAN18-360: 360°

5.2 to 7.3m

R-VAN24: 45° - 270°
R-VAN24-360: 360°

Strip Nozzles

R-VAN-LCS: 1.5 x 4.6m
R-VAN-RCS: 1.5 x 4.6m
R-VAN-SST: 1.5 x 9.1m

Model
R-VAN Adjustable Rotary Nozzle

R-VAN Nozzles meet the standard for high efficiency nozzles.

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

Product	Type	Radius	DU(LQ)
R-VAN	Multi-stream	2.4 to 7.3m	> 0.70



2.4m to 4.6m

4.0m to 5.5m

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
1.5 x 4.6m
Left Corner Strip

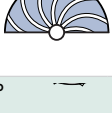
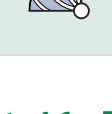


R-VAN-SST
1.5 x 9.1m
Side Strip

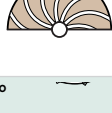
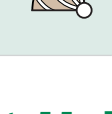


R-VAN-RCS
1.5 x 4.6m
Right Corner Strip

2.4 to 4.6m Adjustable Arc Nozzles (45° to 270°)

R-VAN14 2.4 to 4.6m						
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
270° 	2.1	4.0	0.19	3.18	16	19
	2.4	4.0	0.20	3.29	17	19
	2.8	4.3	0.21	3.48	15	18
	3.1	4.3	0.21	3.56	16	18
	3.4	4.6	0.25	4.20	16	19
210° 	3.8	4.6	0.27	4.43	17	20
	2.1	4.0	0.15	2.46	16	19
	2.4	4.0	0.15	2.57	17	19
	2.8	4.3	0.16	2.73	15	18
	3.1	4.3	0.17	2.76	16	18
180° 	3.4	4.6	0.20	3.26	16	19
	3.8	4.6	0.21	3.44	17	20
	2.1	4.0	0.13	2.12	16	19
	2.4	4.0	0.13	2.20	17	19
	2.8	4.3	0.14	2.31	15	18
90° 	3.1	4.3	0.14	2.38	16	18
	3.4	4.6	0.17	2.80	16	19
	3.8	4.6	0.18	2.95	17	20
	2.1	4.0	0.06	1.06	16	19
	2.4	4.0	0.07	1.10	17	19
	2.8	4.3	0.07	1.17	16	18
	3.1	4.3	0.07	1.21	15	18
	3.4	4.6	0.08	1.40	16	19
	3.8	4.6	0.09	1.48	17	20

4.0 to 5.5m Adjustable Arc Nozzles (45° to 270°)

R-VAN18 4.0 to 5.5m						
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
270° 	2.1	4.9	0.29	4.77	17	19
	2.4	4.9	0.31	5.11	16	19
	2.8	5.2	0.32	5.38	16	19
	3.1	5.2	0.34	5.72	16	19
	3.4	5.5	0.36	5.94	15	18
210° 	3.8	5.5	0.37	6.13	0	18
	2.1	4.9	0.22	3.71	16	19
	2.4	4.9	0.24	3.97	17	20
	2.8	5.2	0.25	4.16	16	19
	3.1	5.2	0.27	4.43	16	20
180° 	3.4	5.5	0.28	4.62	16	18
	3.8	5.5	0.29	4.77	16	19
	2.1	4.9	0.19	3.22	17	19
	2.4	4.9	0.21	3.44	16	19
	2.8	5.2	0.22	3.71	16	19
90° 	3.1	5.2	0.23	3.82	16	19
	3.4	5.5	0.24	4.05	15	18
	3.8	5.5	0.25	4.13	15	18
	2.1	4.9	0.10	1.59	17	19
	2.4	4.9	0.11	1.78	16	19
	2.8	5.2	0.11	1.89	16	19
	3.1	5.2	0.11	1.89	16	19
	3.4	5.5	0.12	2.04	15	18
	3.8	5.5	0.13	2.20	15	18

2.4 to 4.6m Full Circle Nozzles (360°)

R-VAN14-360 2.4 to 4.6m						
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
360° 	2.1	4.0	0.25	4.16	16	18
	2.4	4.0	0.25	4.24	16	19
	2.8	4.3	0.28	4.62	15	18
	3.1	4.3	0.29	4.81	16	18
	3.4	4.6	0.32	5.34	15	18
	3.8	4.6	0.33	5.49	16	18

4.0 to 5.5m Full Circle Nozzles (360°)

R-VAN18-360 4.0 to 5.5m						
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
360° 	2.1	4.9	0.38	6.25	16	18
	2.4	4.9	0.38	6.32	16	19
	2.8	5.2	0.41	6.81	15	18
	3.1	5.2	0.42	7.00	16	18
	3.4	5.5	0.47	7.76	15	18
	3.8	5.5	0.48	7.99	16	18

Note: All R-VAN nozzles tested on 10 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 5.2 m

R-VAN18 and R-VAN18-360: "Do not reduce the radius below 4.0 m

R-VAN14 and R-VAN14-360: "Do not reduce the radius below 2.4 m

5.2 to 7.3m Adjustable Arc Nozzles (45° to 270°)

R-VAN24 5.2 to 7.3m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
270° 	2.1	5.8	0.41	6.81	16	19
	2.4	6.1	0.44	7.38	16	18
	2.8	6.7	0.52	8.74	15	18
	3.1	7.0	0.57	9.54	15	18
	3.4	7.3	0.64	10.67	16	19
210° 	2.1	5.8	0.32	5.30	16	19
	2.4	6.1	0.35	5.75	16	18
	2.8	6.7	0.41	6.81	15	18
	3.1	7.0	0.45	7.42	15	18
	3.4	7.3	0.50	8.29	16	19
180° 	2.1	5.8	0.27	4.54	16	19
	2.4	6.1	0.30	4.92	16	18
	2.8	6.7	0.35	5.83	15	18
	3.1	7.0	0.38	6.36	15	18
	3.4	7.3	0.43	7.12	16	19
90° 	2.1	5.8	0.14	2.27	16	19
	2.4	6.1	0.15	2.46	16	18
	2.8	6.7	0.17	2.91	15	18
	3.1	7.0	0.19	3.18	15	18
	3.4	7.3	0.21	3.56	16	19
	3.8	7.3	0.22	3.63	16	19

5.2 to 7.3m Full Circle Nozzles (360°)

R-VAN24-360 5.2 to 7.3m						
Nozzle	Pressure bar	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
360° 	2.1	5.8	0.53	8.90	16	18
	2.4	6.1	0.57	9.54	15	18
	2.8	6.7	0.71	11.85	16	18
	3.1	7.0	0.79	13.17	16	19
	3.4	7.3	0.82	13.67	15	18
	3.8	7.3	0.85	14.16	16	18

Note: All R-VAN nozzles tested on 10 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 5.2 m

R-VAN18 and R-VAN18-360: "Do not reduce the radius below 4.0 m

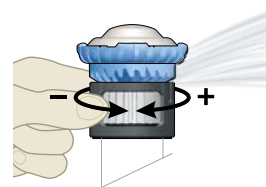
R-VAN14 and R-VAN18-360: "Do not reduce the radius below 2.4 m

Easy Adjustments

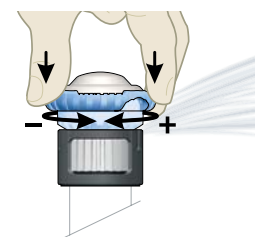
Adjustable Arc Nozzles

R-VAN14, R-VAN18, R-VAN24

RADIUS ADJUSTMENT



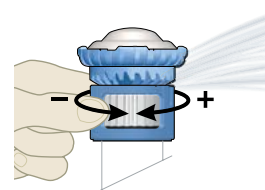
ARC ADJUSTMENT



Full Circle Nozzles

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

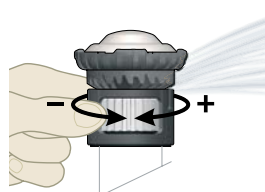
RADIUS ADJUSTMENT



Strip Nozzles

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

SIZE ADJUSTMENT



Did you know?

You Can use R-VAN Nozzles and 5000 Series MPR Rotors on the same zone!

- Matched precipitation rate (MPR) from 2.4m to 10.7m
- Superior coverage – >0.70 DU[LQ]
- Thick, wind-resistant streams – near to far



Strip Nozzles (Left Corner, Side, Right Corner)

R-VAN-LCS 1.5 x 4.6m						
Nozzle	Pressure bar	Size m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
Left Corner Strip	2.1	1.2x4.3	0.04	0.68	16	16
	2.4	1.5x4.6	0.05	0.83	14	14
	2.8	1.5x4.6	0.05	0.87	15	15
	3.1	1.5x4.6	0.05	0.91	16	16
	3.4	1.5x4.6	0.06	0.95	16	16
	3.8	1.8x4.9	0.06	1.06	14	14

R-VAN-RCS 1.5 x 4.6m						
Nozzle	Pressure bar	Size m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
Right Corner Strip	2.1	1.2x4.3	0.04	0.68	16	16
	2.4	1.5x4.6	0.05	0.83	14	14
	2.8	1.5x4.6	0.05	0.87	15	15
	3.1	1.5x4.6	0.05	0.91	16	16
	3.4	1.5x4.6	0.06	0.95	16	16
	3.8	1.8x4.9	0.06	1.06	14	14

R-VAN-SST 1.5 x 9.1m						
Nozzle	Pressure bar	Size m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
Side Strip	2.1	1.2x8.5	0.08	1.36	16	16
	2.4	1.5x9.1	0.10	1.67	14	14
	2.8	1.5x9.1	0.10	1.74	15	15
	3.1	1.5x9.1	0.11	1.82	16	16
	3.4	1.5x9.1	0.11	1.89	16	16
	3.8	1.8x9.8	0.13	2.12	14	14

Note: All R-VAN nozzles tested on 10 cm pop-ups
Performance data taken in zero wind conditions

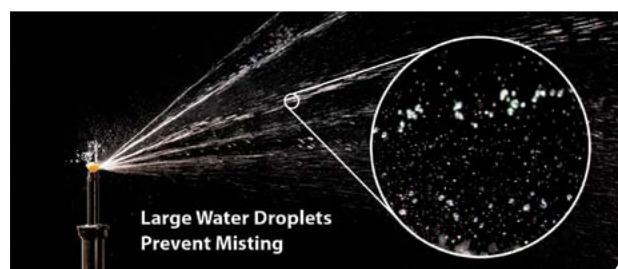
— Straight-line spacing based on 50% overlap of throw for LCS, SST, and RCS
▲ Triangular spacing based on 50% overlap of throw for LCS, SST, and RCS

R-VAN Requires Half the Models to Cover 45° to 360°



Offering Valuable Bottom-Line Savings

- Shorter zone run times save water and energy
- Lower precipitation rates reduce wasteful runoff and costly erosion
- Fewer nozzles needed to cover any area, reducing your inventory costs



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