



**Полная линейка
Вращающихся Форсунок R-VAN**

Péter Orbán

Москва 2019

The Intelligent Use of Water.™

Вращающиеся форсунки R-VAN



Teaser

Полная линейка Вращающихся форсунок R-VAN

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

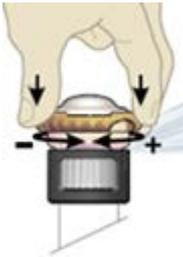
R-VAN-SST
1.5 x 9.1m
Side Strip

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

Форсунки R-VAN: Удобство, Производительность, Экономия

Настройка без инструмента

Настройка сектора:



Настройка радиуса:



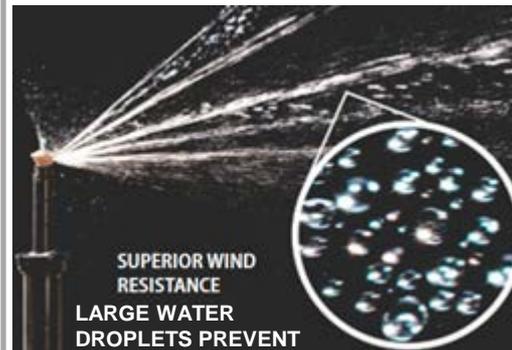
Возможность промывки



Pull UP to Flush



Ветроустойчивые струи



SUPERIOR WIND RESISTANCE
LARGE WATER DROPLETS PREVENT

Требуется на 38% меньше моделей. Одинаковый уровень осадков

Rain Bird	<p>Все 0.6"/ч заданный уровень осадков</p>  <p>R-VAN14 45-270° R-VAN14-360 360° R-VAN18 45-270° R-VAN18-360 360° R-VAN24 45-270° R-VAN24-360 45-270° R-VAN-LCS Left Corner R-VAN-RCS Right Corner R-VAN-SST Side Strip 5000 MPR Rotor 40° - 360°</p>
	<p>0.4"/ч</p>  <p>MPCORNER 45-105° MP1000-90 90°-210° MP1000-210 210-270° MP1000-360 360° MP2000-90 90°-210° MP2000-210 210-270° MP2000-360 360° MP3000-90 90°-210° MP3000-210 210-270° MP3000-360 360° MP3500-90 90°-210°</p>
Hunter	<p>НЕ заданный уровень осадков</p> <p>0.8"/ч</p>  <p>MP800SR90 90-210° MP800SR360 360°</p>
	<p>0.6"/ч</p>  <p>MPLCS515 Left Corner MPRCS515 Right Corner MPSS530 Side Strip</p>

R-VAN vs. MP Rotator

9 Моделей
(Покрытие 2.4 - 7.3 м)

Настройка вручную

Возможность промывки

**Заданный
уровень осадков**

**На 33% короче
время полива**

Ветроустойчивые струи

**Эффективный полив на
дальней дистанции**



15 Моделей
(Покрытие 2.5 - 10.3)

Необходим инструмент

Не промывается

**Уровень осадков
не задан**

Долгий полив

Тонкие струи

**Много струй +
Дальняя дистанция
= Туман**

Все форсунки R-VAN имеют такой же заданный уровень осадков как MPR форсунки для роторов 5000 серии

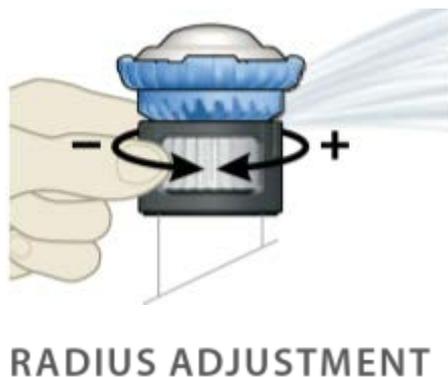
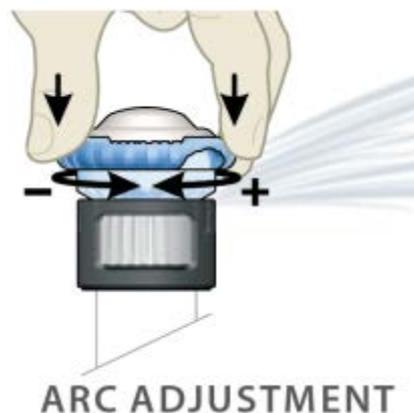
Требуется меньше моделей форсунок



Чтобы обеспечить сектор полива от 45° до 360°
требуется в половину меньше моделей R-VAN чем MP Rotator.

Настройка без инструмента

R-VAN



MP Rotator



R-VAN настраивается руками.

Настройка MP Rotator требует наличие инструмента который всегда должен быть с собой и который легко потерять или забыть.

Промывка при засоре

R-VAN

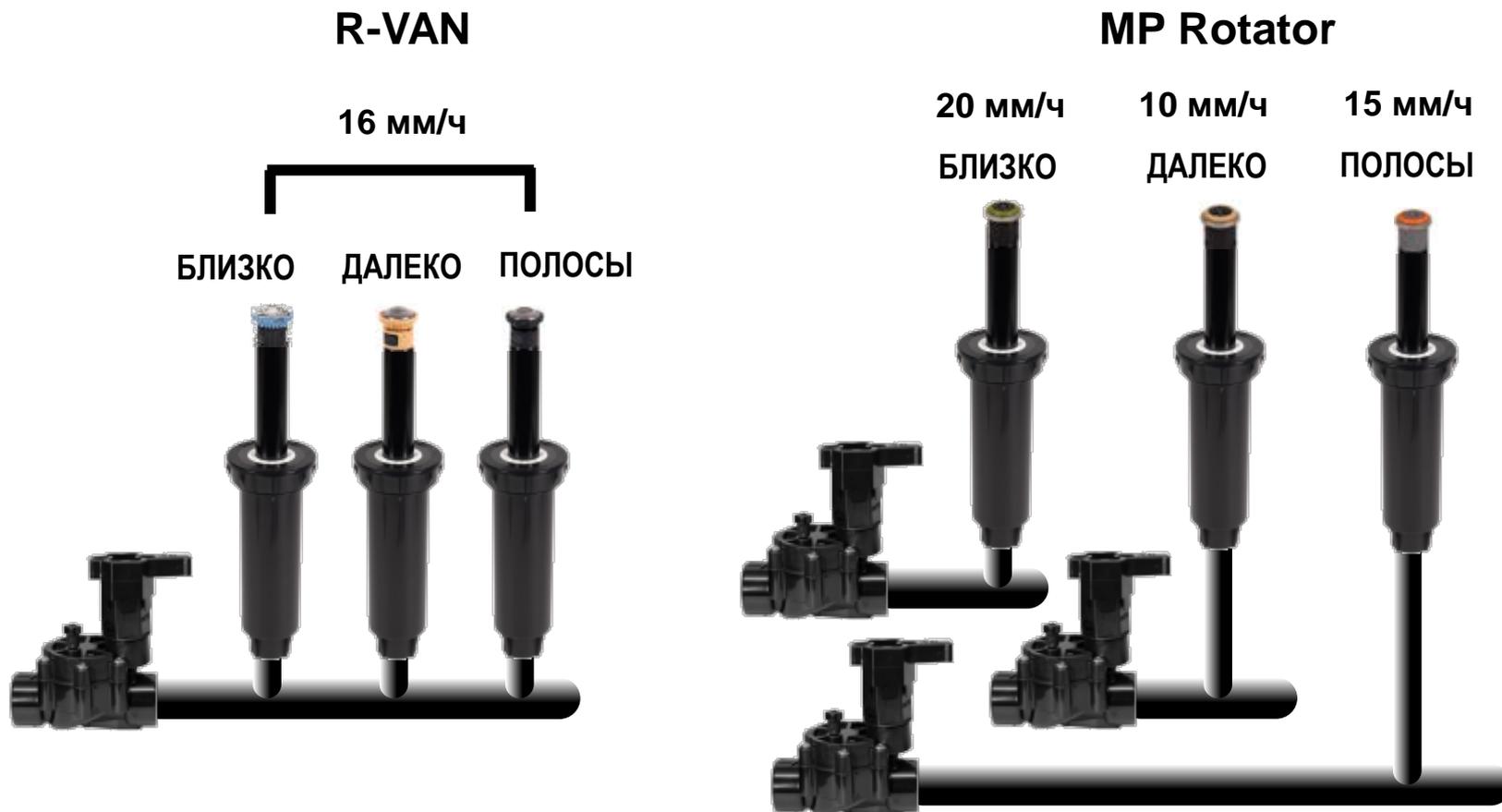


MP Rotator



**Засорившийся MP Rotator
надо менять.**

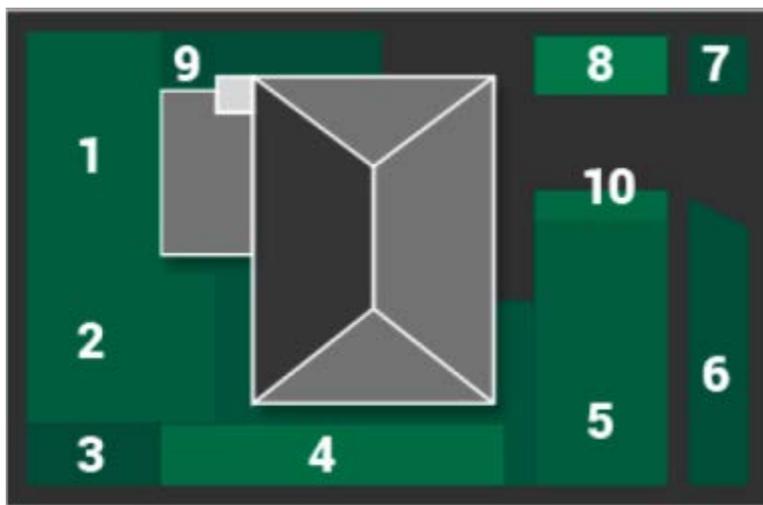
Прикладной аспект Заданного Уровня Осадков



Форсунки MP Rotator разных типов необходимо устанавливать в разных зонах

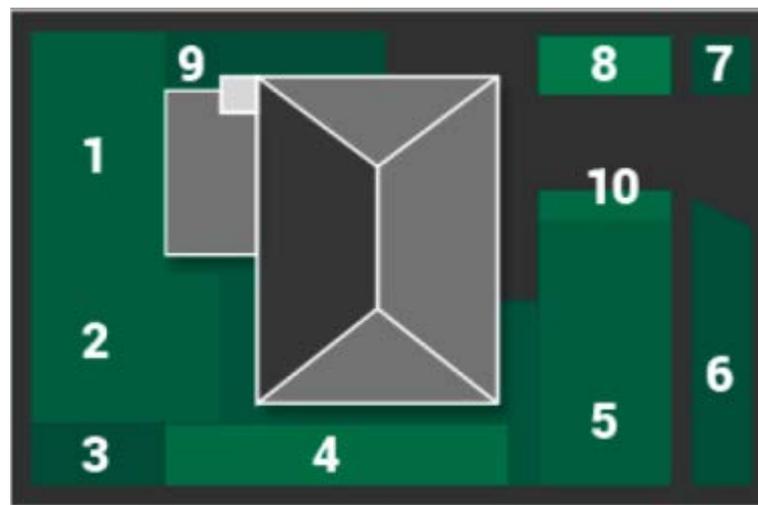
На 33% короче время полива

R-VAN



10 зон за 5 часов

MP Rotator



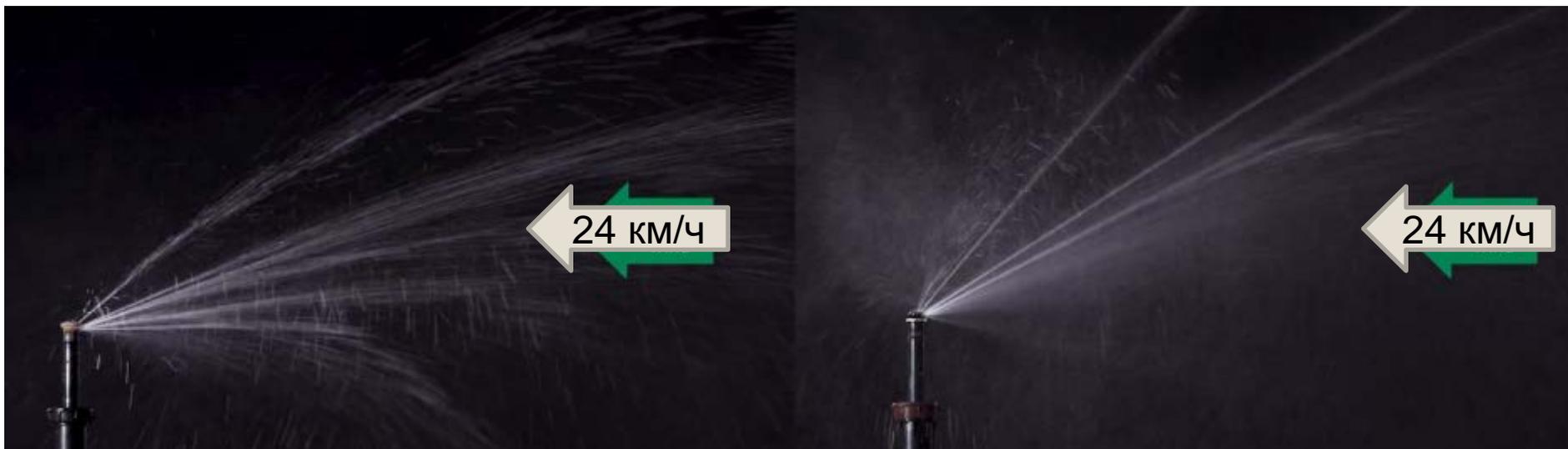
10 зон за 7.5 часов

R-VAN идеально подходят для мест, где время полива ограничивается

Ветроустойчивые струи

R-VAN

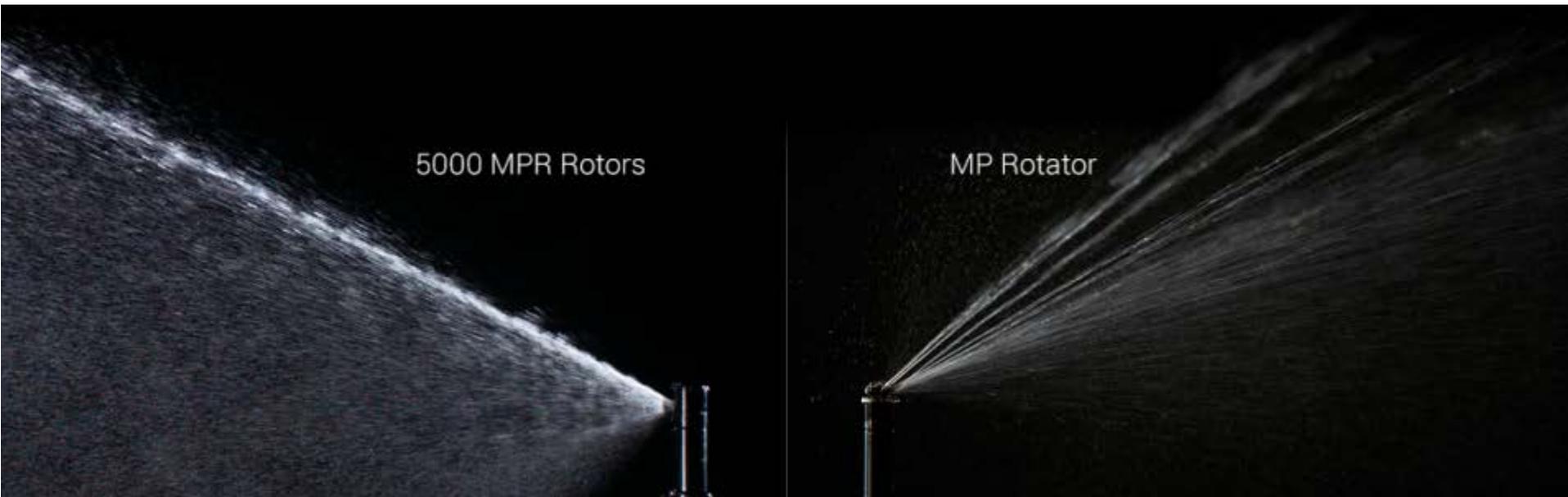
MP Rotator



R-VAN до 30% эффективнее, чем MP Rotator.

Эффективный полив на дальней дистанции

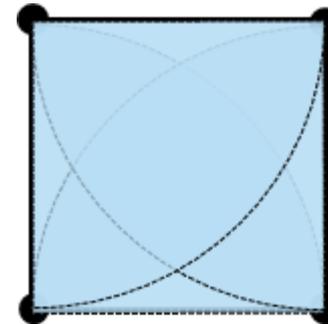
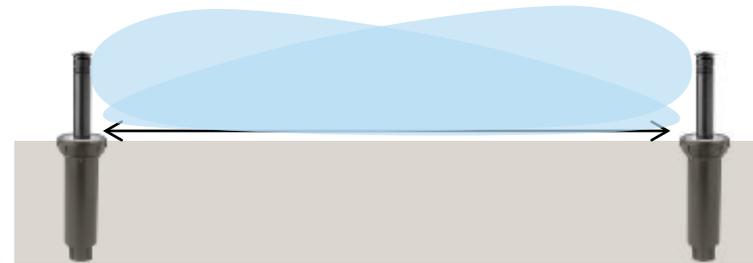
Роторный оросители более эффективны при поливе на дальней дистанции благодаря сильной, ветроустойчивой струе



Роторные оросители Rain Bird серии 5000 с MPR форсунками могут быть установлены в той же зоне, что и R-VAN.

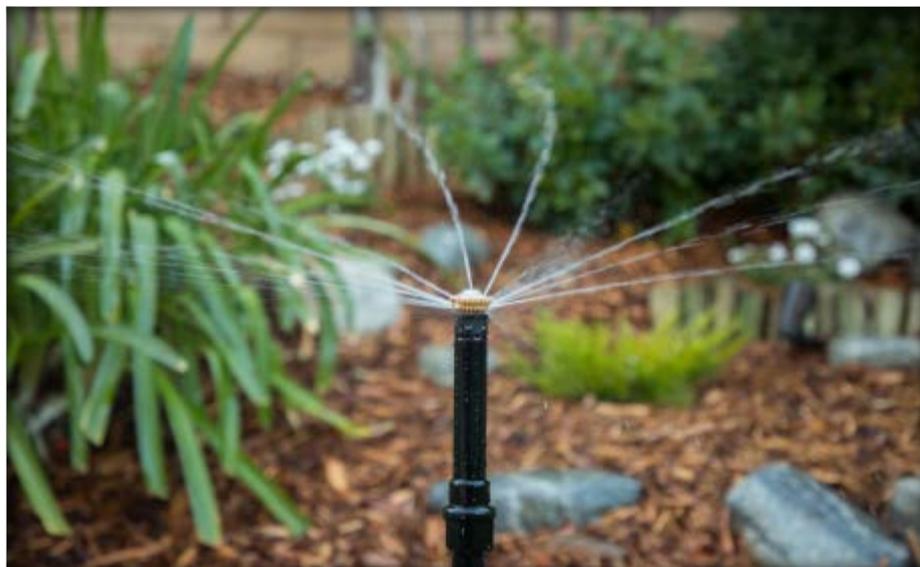
Перекрытие форсунок

- Форсунки оросителей должны устанавливаться так, чтобы перекрывать друг друга и достичь равномерного распределения воды
- Классические паттерны для обеспечения перекрытия – Четверть круга, Половина, Полный круг
- Угловые и полосовые форсунки также должны перекрывать друг друга!



Идеальное сочетание

- Для оптимальной работы R-VAN комбинируйте их с оросителями RD 1800 SAM P45,



Техническое описание R-VAN



Tech Spec

R-VAN Adjustable Rotary 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. R-VANs are also 21% lower list priced and require half the SKUs to achieve 45° to 360° coverage vs. the leading rotating nozzle brand.

Features

- Matched precipitation across radius, arc, 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
- Color coded and laser marked identification of R-VAN model
- Maintains efficient performance at high operating pressures with misting or fogging
- Compatible with all model Rain Bird spray bodies, riser and adapters
- Installing with Rain Bird 509 Series Rotor allows for max precipitation from 8" to 35" (20.3 to 10.7m)
- Three year trade warranty

Operating Range

- Pressure Range: 30 to 55 psi (2.1 to 3.8 bar)
- Recommended Operating 45 psi (3.1 bar)
- Spacing: 8" to 24" (2.0 to 7.3)
- Adjustments: Arc and radius adjusted while water is running

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

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

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



R-VAN Adjustable Rotary Nozzles

Tech Spec

Adjustable Arc Nozzles (45° to 270°)

R-VAN14 8" SP (2.0 to 4.6m)					
SP	Pressure (psi)	Flow (gpm)	Rate (in./hr)	Rate (mm/hr)	Rate (mm/min)
45°	30	1.11	0.022	0.56	14.3
45°	45	1.11	0.022	0.56	14.3
45°	60	1.11	0.022	0.56	14.3
90°	30	1.11	0.022	0.56	14.3
90°	45	1.11	0.022	0.56	14.3
90°	60	1.11	0.022	0.56	14.3
135°	30	1.11	0.022	0.56	14.3
135°	45	1.11	0.022	0.56	14.3
135°	60	1.11	0.022	0.56	14.3
180°	30	1.11	0.022	0.56	14.3
180°	45	1.11	0.022	0.56	14.3
180°	60	1.11	0.022	0.56	14.3
225°	30	1.11	0.022	0.56	14.3
225°	45	1.11	0.022	0.56	14.3
225°	60	1.11	0.022	0.56	14.3
270°	30	1.11	0.022	0.56	14.3
270°	45	1.11	0.022	0.56	14.3
270°	60	1.11	0.022	0.56	14.3

R-VAN18 13" SP (4.0 to 5.5m)					
SP	Pressure (psi)	Flow (gpm)	Rate (in./hr)	Rate (mm/hr)	Rate (mm/min)
45°	30	1.11	0.022	0.56	14.3
45°	45	1.11	0.022	0.56	14.3
45°	60	1.11	0.022	0.56	14.3
90°	30	1.11	0.022	0.56	14.3
90°	45	1.11	0.022	0.56	14.3
90°	60	1.11	0.022	0.56	14.3
135°	30	1.11	0.022	0.56	14.3
135°	45	1.11	0.022	0.56	14.3
135°	60	1.11	0.022	0.56	14.3
180°	30	1.11	0.022	0.56	14.3
180°	45	1.11	0.022	0.56	14.3
180°	60	1.11	0.022	0.56	14.3
225°	30	1.11	0.022	0.56	14.3
225°	45	1.11	0.022	0.56	14.3
225°	60	1.11	0.022	0.56	14.3
270°	30	1.11	0.022	0.56	14.3
270°	45	1.11	0.022	0.56	14.3
270°	60	1.11	0.022	0.56	14.3

Full Circle Nozzles (360°)

R-VAN14-360 8" SP (2.0 to 4.6m)					
SP	Pressure (psi)	Flow (gpm)	Rate (in./hr)	Rate (mm/hr)	Rate (mm/min)
360°	30	1.11	0.022	0.56	14.3
360°	45	1.11	0.022	0.56	14.3
360°	60	1.11	0.022	0.56	14.3

R-VAN18-360 13" SP (4.0 to 5.5m)					
SP	Pressure (psi)	Flow (gpm)	Rate (in./hr)	Rate (mm/hr)	Rate (mm/min)
360°	30	1.11	0.022	0.56	14.3
360°	45	1.11	0.022	0.56	14.3
360°	60	1.11	0.022	0.56	14.3

Strip Nozzles (Left Corner, Side, Right Corner)

R-VAN14-S 8" SP (2.0 to 4.6m)					
SP	Pressure (psi)	Flow (gpm)	Rate (in./hr)	Rate (mm/hr)	Rate (mm/min)
45°	30	1.11	0.022	0.56	14.3
45°	45	1.11	0.022	0.56	14.3
45°	60	1.11	0.022	0.56	14.3

R-VAN18-S 13" SP (4.0 to 5.5m)					
SP	Pressure (psi)	Flow (gpm)	Rate (in./hr)	Rate (mm/hr)	Rate (mm/min)
45°	30	1.11	0.022	0.56	14.3
45°	45	1.11	0.022	0.56	14.3
45°	60	1.11	0.022	0.56	14.3

Note: All SKUs include a 3-year trade warranty. Performance data based on 45 psi and 100°F water. All other conditions may vary.

Note: All SKUs include a 3-year trade warranty. Performance data based on 45 psi and 100°F water. All other conditions may vary.

Tech Spec

R-VAN Adjustable Rotary Nozzles

Adjustable Arc Nozzles

R-VAN14, R-VAN18, R-VAN24



Full Circle Nozzles

R-VAN14-360, R-VAN18-360, R-VAN24-360



Strip Nozzles

R-VAN14-S, R-VAN18-S, R-VAN24-S



All Models



No Tools Required

Pull UP to Flush

For Optimum Performance, Use Rain Bird 1800 or RD1800 Spray Bodies with 45 PSI Pressure Regulation

Performance Data Notes

- R-VAN tested on 4 inch (10.2cm) spray bodies.
- Performance data taken in zero-wind conditions.
- Radius refers to recommended spacing to achieve optimal precipitation rate and distribution uniformly with head to head spacing.
- Square spacing based on 50% diameter of throw.
- Single row applications are not recommended.
- Installation on Rain Bird 1800/AM-PSI spray bodies recommended in sandy environments.
- Performance data derived from tests that conform with ASAE and ASABE standards: ASAE S308.1, ASABE D37.1, S308.4.

Specifications

- The R-VAN nozzle shall have a variable arc that is adjustable without a tool at specified operating pounds per square inch (psi).
- The R-VAN nozzle shall have a radius that is adjustable without a tool at specified operating pounds per square inch (psi).
- The R-VAN nozzle shall have multiple arc distances and have a matched precipitation rate of ____ inch (mm)/hr.
- The R-VAN nozzle shall have a variable arc of 45° to 270°.
- The R-VAN nozzle variable arc shall be capable of covering a ____ foot (meter) radius at ____ pounds per square inch (psi).
- The R-VAN nozzle shall have a discharge rate of ____ gallons per minute (lpm).
- The R-VAN nozzle angle of the trajectory shall vary from 4 to 30°.
- The R-VAN nozzle shall be constructed of UV resistant plastic. The protective metal cap shall be of stainless steel.
- The R-VAN nozzle shall include a removable mesh screen to protect the nozzle against clogging. Nozzle include a nylon screen (40 mesh / 400 Microns) or a white screen (20 mesh / 800 Microns) depending on the model.
- The R-VAN nozzle shall have a precipitation rate matched with Rain Bird 1800 Series APB Rotary Nozzles.
- The R-VAN nozzle shall have a 3 year trade warranty.



How to Specify

R-VAN	18-360
Radius Range	2.0 to 4.6m
Pressure	30 to 55 psi
Flow Rate	1.11 gpm
Rate	0.022 in./hr
Rate	0.56 mm/hr
Rate	14.3 mm/min
Material	UV Resistant Plastic
Screen	40 Mesh / 400 Microns
Screen	20 Mesh / 800 Microns
Warranty	3 Year Trade Warranty

Rain Bird Corporation
8801 S. Southwestern Blvd.
Tucson, AZ 85746
Phone: (520) 741-4100
Fax: (520) 741-6122

Rain Bird Corporation
18100 Santa Maria Avenue
Azusa, CA 91702
Phone: (626) 812-3300
Fax: (626) 812-4011

Rain Bird International, Inc.
1500 West Green Road, Suite 100
Azusa, CA 91702
Phone: (626) 812-4011
Fax: (626) 812-4100

Rain Bird Technical Services
Rain Bird Mexico S. de CV (S. de CV)
S. de CV, and Canada

www.rainbird.com

All trademarks and registered trademarks of Rain Bird Corporation © 2017 Rain Bird Corporation 10/17

10088

Таблица производительности

R-VAN Rotary Nozzles



R-VAN

- ✓ Adjust by hand
- ✓ Pull-up to flush
- ✓ Even watering
- ✓ Wind resistant

MP Rotator

- ✗ Tool required
- ✗ Clogs
- ✗ Not matched precipitation
- ✗ Thin streams

Nozzle Performance Data

Nozzles

Noz. #	Precep. (in./h)	Pressure (psi)	Radius (ft.)	Flow (gpm)	Precep. (in./h)
R-VAN24 (17'-24')					
270°	30	19	1.80	0.64	0.74
	35	20	1.96	0.63	0.72
	40	22	2.11	0.61	0.71
	45	23	2.24	0.61	0.71
	50	24	2.32	0.63	0.73
	55	24	2.38	0.64	0.74
R-VAN18-360 (13'-18')					
360°	30	19	1.60	0.64	0.74
	35	20	1.74	0.63	0.72
	40	22	1.96	0.61	0.71
	45	23	2.24	0.61	0.71
	50	24	2.51	0.63	0.73
	55	24	2.56	0.64	0.74
R-VAN18-360 (17'-24')					
360°	30	19	1.90	0.64	0.74
	35	20	1.57	0.63	0.72
	40	22	1.80	0.61	0.71
	45	23	1.96	0.61	0.71
	50	24	2.19	0.63	0.72
	55	24	2.24	0.64	0.74
R-VAN18-360 (17'-24')					
360°	30	19	1.30	0.64	0.74
	35	20	1.30	0.63	0.72
	40	22	1.54	0.61	0.71
	45	23	1.68	0.61	0.71
	50	24	1.88	0.63	0.73
	55	24	1.92	0.64	0.74
R-VAN150 (17'-24')					
150°	30	19	1.00	0.64	0.74
	35	20	1.08	0.63	0.72
	40	22	1.28	0.61	0.71
	45	23	1.40	0.61	0.71
	50	24	1.51	0.63	0.73
	55	24	1.60	0.64	0.74
R-VAN120 (17'-24')					
120°	30	19	0.80	0.64	0.74
	35	20	0.87	0.63	0.72
	40	22	1.03	0.61	0.71
	45	23	1.12	0.61	0.71
	50	24	1.25	0.63	0.73
	55	24	1.28	0.64	0.74
R-VAN90 (17'-24')					
90°	30	19	0.60	0.64	0.74
	35	20	0.65	0.63	0.72
	40	22	0.77	0.61	0.71
	45	23	0.84	0.61	0.71
	50	24	0.94	0.63	0.73
	55	24	0.96	0.64	0.74
R-VAN60 (17'-24')					
60°	30	19	0.40	0.64	0.74
	35	20	0.43	0.63	0.72
	40	22	0.51	0.61	0.71
	45	23	0.56	0.61	0.71
	50	24	0.63	0.63	0.73
	55	24	0.64	0.64	0.74
R-VAN45 (17'-24')					
45°	30	19	0.30	0.64	0.74
	35	20	0.33	0.63	0.72
	40	22	0.39	0.61	0.71
	45	23	0.42	0.61	0.71
	50	24	0.47	0.63	0.73
	55	24	0.48	0.64	0.74

Full Circle Nozzles

Precep. (in./h)	Pressure (psi)	Radius (ft.)	Flow (gpm)	Precep. (in./h)	
R-VAN14-360 (8'-14')					
360°	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-VAN18-360 (13'-18')					
360°	30	16	1.25	0.62	0.72
	35	16	1.67	0.63	0.73
	40	17	1.93	0.60	0.69
	45	17	1.85	0.62	0.71
	50	18	2.05	0.61	0.70
	55	18	2.11	0.63	0.72
R-VAN24-360 (17'-24')					
360°	30	19	2.35	0.63	0.72
	35	20	2.52	0.61	0.70
	40	22	3.13	0.62	0.72
	45	23	3.48	0.63	0.73
	50	24	3.61	0.60	0.70
	55	24	3.74	0.62	0.72
R-VANLCS (5' x 15')					
Left Corner Strip	30	4x14	0.18	0.62	0.63
Corner Strip	35	5x15	0.22	0.56	0.56
Strip	40	5x15	0.23	0.59	0.59
	45	5x15	0.24	0.62	0.62
	50	5x15	0.25	0.64	0.64
	55	5x16	0.28	0.56	0.56
R-VANSSST (5' x 30')					
Side Strip	30	4x28	0.36	0.62	0.62
Strip	35	5x30	0.44	0.56	0.56
	40	5x30	0.46	0.59	0.59
	45	5x30	0.48	0.62	0.62
	50	5x30	0.50	0.64	0.64
	55	5x32	0.56	0.56	0.56
R-VANRCS (5' x 15')					
Right Corner Strip	30	4x14	0.18	0.62	0.62
Strip	35	5x15	0.22	0.56	0.56
	40	5x15	0.23	0.59	0.59
	45	5x15	0.24	0.62	0.62
	50	5x15	0.25	0.64	0.64
	55	5x16	0.28	0.56	0.56

8' to 14'

R-VAN14
45° - 270°

R-VAN14-360
360°

13' to 18'

R-VAN18
45° - 270°

R-VAN18-360
360°

17' to 24'

R-VAN24
45° - 270°

R-VAN24-360
360°

Strip Nozzles

R-VANLCS
5' x 15'
Left Corner Strip

R-VANSSST
5' x 30'
Side Strip

R-VANRCS
5' x 15'
Right Corner Strip



Precep. (in./h)	Pressure (psi)	Radius (ft.)	Flow (gpm)	Precep. (in./h)
35	13	0.15	0.66	0.76
40	14	0.16	0.61	0.70
45	14	0.16	0.63	0.73
50	15	0.19	0.63	0.73
55	15	0.20	0.67	0.77

Precep. (in./h)	Pressure (psi)	Radius (ft.)	Flow (gpm)	Precep. (in./h)
35	16	0.24	0.71	0.82
40	17	0.25	0.69	0.79
45	17	0.25	0.67	0.77
50	18	0.27	0.64	0.74
55	18	0.29	0.69	0.80

Recommended Operating Pressure: 45 psi
 For best results, use pressure-regulated Rain Bird PERS® spray heads.
 Note: All Rotary nozzles listed are 1/2" (12.7 mm) pop-ups.
 *Performance data taken in zero wind conditions.
 †Includes installation tolerances.

■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw
 ◆ Straight line spacing based on 50% overlap of throw for LCS, SSST and RCS

- Rain Bird reserves the right to update its products, which could result in changes to their radii.
 - R-VAN14 and R-VAN18-360: Do not reduce the radius below 12'.
 - R-VAN18 and R-VAN18-360: Do not reduce the radius below 12'.
 - R-VAN14 and R-VAN18-360: Do not reduce the radius below 12'.

Таблица производительности

Rotary Nozzle Performance Data

Adjustable Arc Nozzles					Full Circle Nozzles														
R-VAN14 (8" - 14")					R-VAN18 (13" - 18")					R-VAN24 (17" - 24")					R-VAN14-360 (8" - 14")				
Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in./h)	Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in./h)	Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in./h)	Arc	Pressure psi	Radius ft.	Flow gpm	Precip. (in./h)
	30	13	0.94	0.64 0.70		30	16	1.26	0.65 0.75		30	19	1.80	0.64 0.74		30	13	1.10	0.63 0.72
	35	13	0.87	0.66 0.74		35	16	1.35	0.64 0.74		35	20	1.95	0.63 0.72		35	13	1.12	0.64 0.74
	40	14	0.92	0.60 0.71		40	17	1.42	0.63 0.73		40	22	2.31	0.61 0.71		40	14	1.22	0.60 0.69
	45	14	0.94	0.62 0.70		45	17	1.51	0.64 0.73		45	23	2.52	0.61 0.71		45	14	1.27	0.62 0.71
	50	15	1.11	0.63 0.73		50	18	1.57	0.60 0.69		50	24	2.82	0.63 0.73		50	15	1.41	0.60 0.70
	55	15	1.17	0.67 0.77		55	18	1.62	0.60 0.69		55	24	2.88	0.64 0.74		55	15	1.45	0.62 0.72
	30	13	0.75	0.64 0.74		30	16	1.12	0.63 0.73		30	19	1.60	0.64 0.74		30	16	1.05	0.62 0.72
	35	13	0.78	0.66 0.76		35	16	1.20	0.68 0.78		35	20	1.74	0.63 0.72		35	16	1.67	0.63 0.73
	40	14	0.82	0.60 0.70		40	17	1.26	0.63 0.73		40	22	2.06	0.61 0.71		40	17	1.80	0.60 0.69
	45	14	0.84	0.62 0.73		45	17	1.34	0.67 0.77		45	23	2.24	0.61 0.71		45	17	1.85	0.62 0.71
	50	15	0.99	0.63 0.73		50	18	1.40	0.62 0.72		50	24	2.51	0.63 0.73		50	18	2.05	0.61 0.70
	55	15	1.04	0.67 0.77		55	18	1.44	0.64 0.74		55	24	2.56	0.64 0.74		55	18	2.11	0.63 0.72
	30	13	0.65	0.64 0.76		30	16	0.98	0.63 0.73		30	19	1.40	0.64 0.74		30	16	1.05	0.62 0.72
	35	13	0.68	0.66 0.74		35	16	1.05	0.68 0.78		35	20	1.52	0.63 0.72		35	16	1.67	0.63 0.73
	40	14	0.72	0.60 0.71		40	17	1.10	0.63 0.73		40	22	1.80	0.61 0.71		40	17	1.80	0.60 0.69
	45	14	0.73	0.62 0.70		45	17	1.17	0.64 0.77		45	23	1.96	0.61 0.71		45	17	1.85	0.62 0.71
	50	15	0.86	0.63 0.73		50	18	1.22	0.62 0.72		50	24	2.19	0.63 0.72		50	18	2.05	0.61 0.70
	55	15	0.91	0.67 0.77		55	18	1.26	0.64 0.74		55	24	2.24	0.64 0.74		55	18	2.11	0.63 0.72
	30	13	0.56	0.64 0.76		30	16	0.85	0.65 0.75		30	19	1.20	0.64 0.74		30	19	2.35	0.63 0.72
	35	13	0.58	0.66 0.74		35	16	0.91	0.64 0.74		35	20	1.30	0.63 0.72		35	20	2.52	0.61 0.70
	40	14	0.61	0.60 0.71		40	17	0.98	0.63 0.73		40	22	1.54	0.61 0.71		40	22	3.13	0.62 0.71
	45	14	0.63	0.59 0.70		45	17	1.01	0.64 0.75		45	23	1.68	0.61 0.71		45	23	3.48	0.63 0.73
	50	15	0.74	0.63 0.73		50	18	1.07	0.60 0.69		50	24	1.88	0.63 0.73		50	24	3.61	0.60 0.70
	55	15	0.78	0.67 0.77		55	18	1.09	0.60 0.69		55	24	1.92	0.64 0.74		55	24	3.74	0.62 0.72
	30	13	0.47	0.64 0.74		30	16	0.71	0.64 0.74		30	19	1.00	0.64 0.74		30	19	2.35	0.63 0.72
	35	13	0.48	0.66 0.76		35	16	0.76	0.68 0.79		35	20	1.08	0.63 0.72		35	20	2.52	0.61 0.70
	40	14	0.52	0.61 0.70		40	17	0.82	0.65 0.75		40	22	1.28	0.61 0.71		40	22	3.13	0.62 0.71
	45	14	0.53	0.63 0.73		45	17	0.84	0.67 0.78		45	23	1.40	0.61 0.71		45	23	3.48	0.63 0.73
	50	15	0.62	0.63 0.73		50	18	0.89	0.64 0.73		50	24	1.57	0.63 0.73		50	24	3.61	0.60 0.70
	55	15	0.65	0.67 0.77		55	18	0.91	0.65 0.75		55	24	1.60	0.64 0.74		55	24	3.74	0.62 0.72
	30	13	0.37	0.64 0.74		30	16	0.57	0.64 0.74		30	19	0.80	0.64 0.74		30	19	2.35	0.63 0.72
	35	13	0.39	0.66 0.76		35	16	0.61	0.68 0.79		35	20	0.87	0.63 0.72		35	20	2.52	0.61 0.70
	40	14	0.41	0.61 0.70		40	17	0.65	0.65 0.75		40	22	1.03	0.61 0.71		40	22	3.13	0.62 0.71
	45	14	0.43	0.63 0.73		45	17	0.67	0.67 0.78		45	23	1.12	0.61 0.71		45	23	3.48	0.63 0.73
	50	15	0.49	0.63 0.73		50	18	0.71	0.64 0.73		50	24	1.25	0.63 0.73		50	24	3.61	0.60 0.70
	55	15	0.52	0.67 0.77		55	18	0.73	0.65 0.75		55	24	1.28	0.64 0.74		55	24	3.74	0.62 0.72
	30	13	0.28	0.64 0.74		30	16	0.40	0.65 0.75		30	19	0.60	0.64 0.74		30	19	2.35	0.63 0.72
	35	13	0.29	0.66 0.74		35	16	0.47	0.64 0.74		35	20	0.65	0.63 0.72		35	20	2.52	0.61 0.70
	40	14	0.31	0.62 0.71		40	17	0.50	0.63 0.73		40	22	0.77	0.61 0.71		40	22	3.13	0.62 0.71
	45	14	0.32	0.61 0.70		45	17	0.50	0.64 0.75		45	23	0.84	0.61 0.71		45	23	3.48	0.63 0.73
	50	15	0.37	0.63 0.73		50	18	0.54	0.60 0.69		50	24	0.94	0.63 0.73		50	24	3.61	0.60 0.70
	55	15	0.39	0.67 0.77		55	18	0.58	0.60 0.69		55	24	0.96	0.64 0.74		55	24	3.74	0.62 0.72
	30	13	0.19	0.64 0.74		30	16	0.28	0.63 0.73		30	19	0.40	0.64 0.74		30	19	2.35	0.63 0.72
	35	13	0.19	0.66 0.76		35	16	0.31	0.71 0.82		35	20	0.43	0.63 0.72		35	20	2.52	0.61 0.70
	40	14	0.21	0.61 0.70		40	17	0.33	0.67 0.77		40	22	0.51	0.61 0.71		40	22	3.13	0.62 0.71
	45	14	0.21	0.63 0.73		45	17	0.33	0.67 0.77		45	23	0.56	0.61 0.71		45	23	3.48	0.63 0.73
	50	15	0.25	0.63 0.73		50	18	0.36	0.64 0.74		50	24	0.63	0.63 0.73		50	24	3.61	0.60 0.70
	55	15	0.26	0.67 0.77		55	18	0.39	0.69 0.80		55	24	0.64	0.64 0.74		55	24	3.74	0.62 0.72
	30	13	0.14	0.64 0.74		30	16	0.21	0.63 0.73		30	19	0.30	0.64 0.74		30	19	2.35	0.63 0.72
	35	13	0.15	0.66 0.76		35	16	0.24	0.71 0.82		35	20	0.33	0.63 0.72		35	20	2.52	0.61 0.70
	40	14	0.16	0.61 0.70		40	17	0.25	0.67 0.77		40	22	0.39	0.61 0.71		40	22	3.13	0.62 0.71
	45	14	0.16	0.63 0.73		45	17	0.25	0.67 0.77		45	23	0.42	0.61 0.71		45	23	3.48	0.63 0.73
	50	15	0.19	0.63 0.73		50	18	0.27	0.64 0.74		50	24	0.47	0.63 0.73		50	24	3.61	0.60 0.70
	55	15	0.20	0.67 0.77		55	18	0.29	0.69 0.80		55	24	0.48	0.64 0.74		55	24	3.74	0.62 0.72

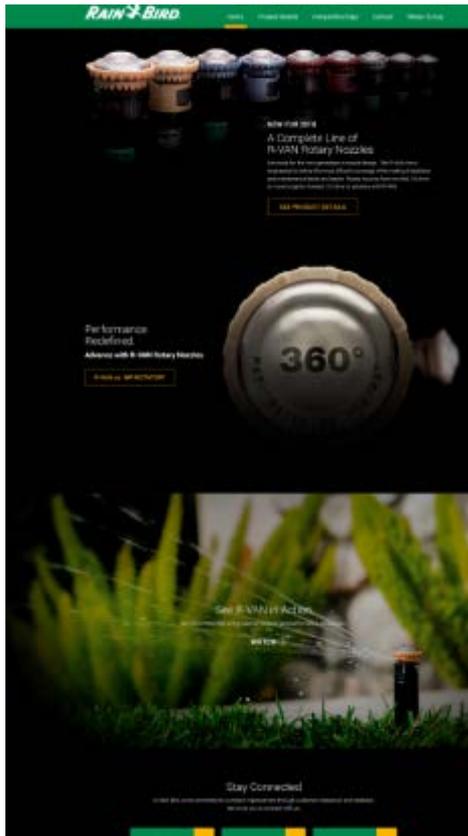
Recommended Operating

Настольные дисплеи R-VAN



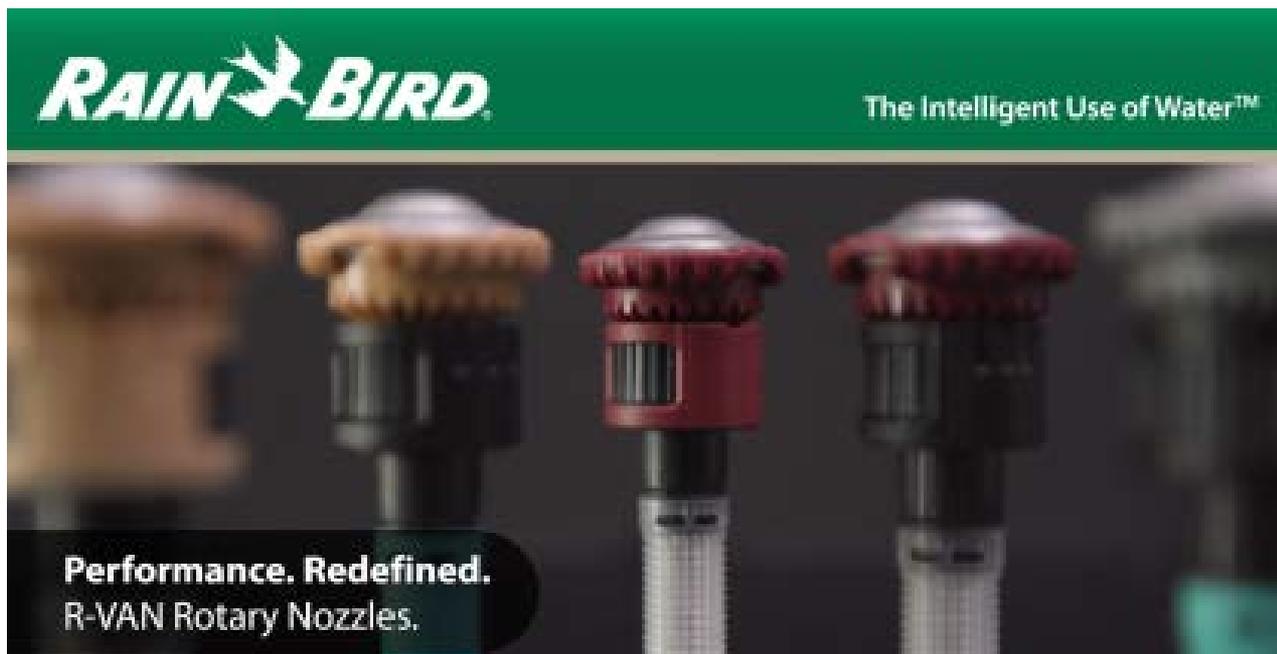
Настольный дисплей

Микро веб-сайт R-VAN



rvanrotarynozzlesinternational.com

Вращающаяся форсунка R-VAN



[Launch Keynote](#)



**KEEP
GROWING
AND
AIM HIGH**