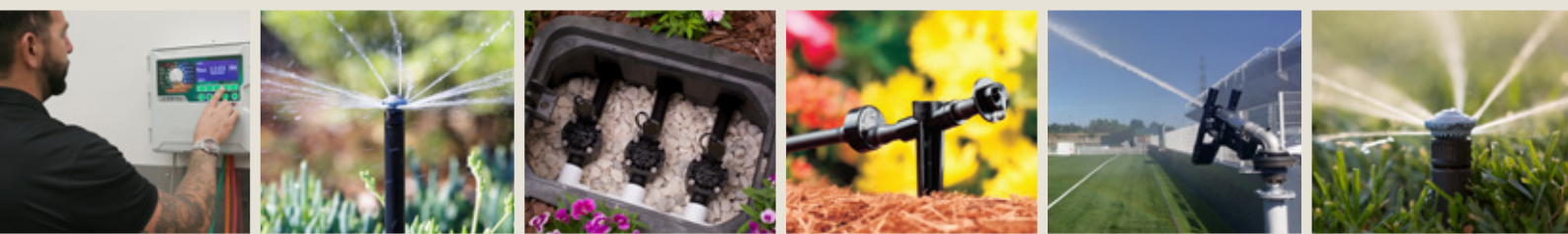




## International Landscape Irrigation Products 2021 Catalog



The Intelligent Use of Water.™



## Together, we can make a difference

At Rain Bird, we believe that saving water is a responsibility that we all share. Our industry can have a tremendous impact on water conservation by installing more efficient systems and teaching customers how to use them correctly. By working together, we can really make a difference.

Rain Bird's 25 Ways offers practical, effective tips and advice drawn from the company's 80-plus years of experience in the irrigation industry. Available at [25ways.rainbird.com](http://25ways.rainbird.com), these resources can be used anywhere and by anyone who wants to improve their watering efficiency.

## Water Saving Tips from Rain Bird

Visit [25ways.rainbird.com](http://25ways.rainbird.com) for a complete list of water saving tips and techniques in each of the following categories.



Improve Your Existing System



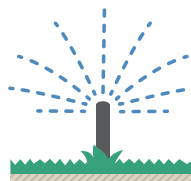
Water Only At The Right Times



Don't Overwater



Use The Right Products



Keep Your Water In Place



Update Your Landscape

## UNI-Spray™ Series

Compact and reliable spray heads for any application

### Features

- Small exposed cover makes the unit virtually invisible for more attractive landscapes
- Constructed of durable materials including corrosion resistant stainless steel, assuring long product life even in high pressure or surge conditions
- Pressure-activated wiper seal prevents excessive flow-by and water waste and keeps debris from entering upon retraction
- Two-piece ratchet mechanism allows easy nozzle pattern alignment and provides added durability
- Three Year Trade Warranty

### Operating Range

- Spacing: 0.8 to 7.3m\*\*
- Pressure: 1.0 to 4.8 bar

### Specifications

- Flow-by: 0 at 0.75 bar or greater; 0.04 m<sup>3</sup>/h; 0.60 l/m otherwise

### Models\*

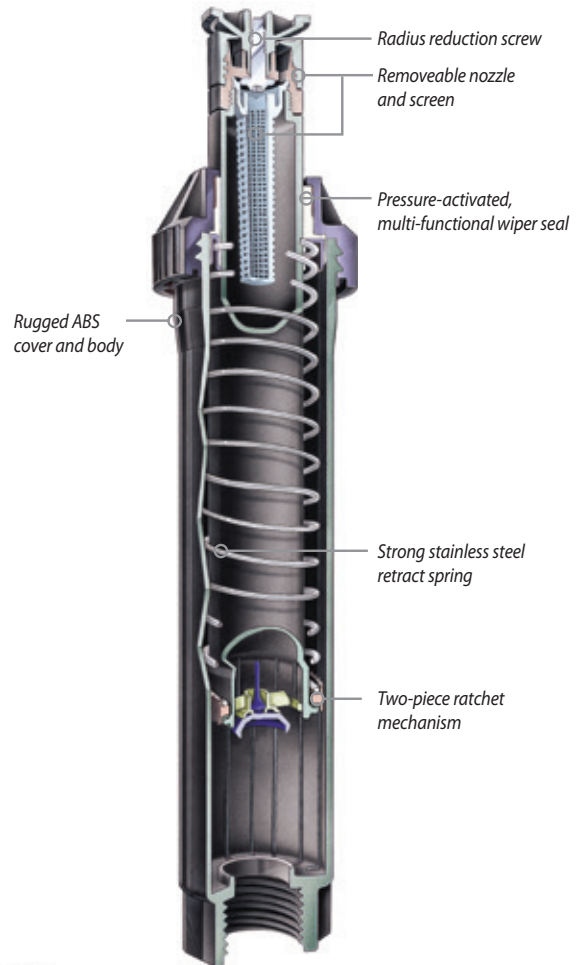
Select models shown. Review your regional price list for complete availability.

- US400: 10 cm (4") pop-up height, body only
- US410: 10 cm (4") pop-up height with VAN-10 attached
- US412: 10 cm (4") pop-up height with VAN-12 attached
- US415: 10 cm (4") pop-up height with VAN-15 attached
- US418: 10 cm (4") pop-up height with VAN-18 attached

### Models with High-Efficiency Nozzles Pre-Attached\*

- US408HE: 10 cm (4") pop-up height with HE-VAN-8 attached
- US410HE: 10 cm (4") pop-up height with HE-VAN-10 attached
- US412HE: 10 cm (4") pop-up height with HE-VAN-12 attached
- US415HE: 10 cm (4") pop-up height with HE-VAN-15 attached

\* The UNI-Spray accepts all Rain Bird nozzles



UNI-Spray™



High Efficiency  
Variable Arc Nozzles  
(2.4 m, 3.0 m, 3.7 m, or 4.6 m)  
are available pre-installed

### How to Specify

US - 4 - 10HE

Nozzle Series/Pattern  
HE-VAN nozzle  
R-VAN18 Nozzle

Body  
10.2cm (4")

Model  
UNI-Spray



## What is a High-Efficiency Nozzle?

### Typical nozzles – Un-Even Watering

With typical nozzles, part of the lawn may not have enough water and other parts may be over-watered. A large portion of water may be lost to evaporation / misting, and over-spray.

### High-efficiency nozzles – Even Watering

High-efficiency nozzles provide better coverage. Better coverage means shorter zone run-times while keeping grass healthy. Shorter run-times means you will save up to 25%+ water vs. typical nozzles. Rain Bird's high-efficiency nozzles are also engineered to produce large water droplets to reduce wind drift.











## Standard or Low Precipitation Rate?

### Low Precipitation Rate Nozzles

Low precipitation rate nozzles are best used in sloped or compacted soil areas to minimize run-off. The low watering rate makes run-times longer.

### Standard Precipitation Rate Nozzles

Standard precipitation rate nozzles are best used for shorter distance irrigation, and when watering times may be limited due to city ordinances.

Low Precipitation Rate		Standard Precipitation Rate			
High-Efficiency Rotary Nozzles		High-Efficiency Nozzles		Standard Nozzles	
					
					
R-VAN		HE-VAN	U-Series	VAN	MPR
Adjustable Arc (45° - 270°)	Full Circle (360°)	Adjustable Arc	Fixed Arc	Adjustable Arc	Fixed Arc

## HE-VAN Series Nozzles

High-Efficiency Variable Arc Spray Nozzles

### Features

- HE-VAN's even coverage allows you to shorten run times by up to 35%, saving you water and money, while still maintaining a healthy lawn. HE-VAN has more than a 40 percent even-coverage improvement over existing variable arc nozzles
- HE-VAN nozzles have a unique stream pattern, designed for superior coverage and wind resistance. Low-trajectory spray and large water droplets prevent misting and airborne evaporation so the right amount of water is delivered to the right place. Gentle close-in watering eliminates dry-spots around the spray head
- HE-VAN nozzles throw to the exact specified radius, delivering the cleanest edge of any VAN on the market today
- Reduced zone run times, compared to competitive nozzles, help stay within tight watering windows, conserve water, and save money
- With full adjustability from 0° to 360°, you'll be able to efficiently water landscapes of all shapes, while saving time and stocking fewer nozzles
- Matched precipitation rates allow you to install Rain Bird HE-VAN, MPR and U-Series nozzles on the same zone
- HE-VAN nozzles have a tactile click to keep the arc setting from drifting over time
- Three year trade warranty

### Operating Range

- Spacing: 1.8 to 4.6m<sup>1</sup>
- Pressure: 1.0 to 2.1 bar
- Optimum pressure: 2.1 bar<sup>2</sup>

### Models

- HE-VAN-08: 1.8 to 2.4 m
- HE-VAN-10: 2.4 to 3.0 m
- HE-VAN-12: 2.7 to 3.7 m
- HE-VAN-15: 3.7 to 4.6 m

<sup>1</sup> These ranges are based on proper pressure at nozzle

<sup>2</sup> Rain Bird recommends using 1800/RD1800 PRS Spray Bodies to maintain optimum nozzle performance in higher pressure situations



Fits on all Rain Bird® 1800® Series Spray Heads, UNI-Spray™ Series Spray Heads and Rain Bird Shrub Adapters

For Optimum Performance, Use Rain Bird 1800 2.1 Bar Regulated or RD1800 2.1 Bar Regulated Spray Bodies



### How to Specify

#### HE-VAN-15





Radius Range  
8: 1.8 to 2.4 m  
10: 2.4 to 3.0 m  
12: 2.7 to 3.7 m  
15: 3.7 to 4.6 m





Feature  
VAN: Variable Arc





Model  
High Efficiency Nozzle







HE-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)
HE-VAN	Spray, Variable Arc	1.8m - 4.6m	> 0.70

8 Series HE-VAN						
24° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
	1.0	1.5	0.19	3.14	82	95
	1.4	1.8	0.22	3.62	66	76
	1.7	2.1	0.25	4.05	54	62
	2.1	2.4	0.27	4.43	45	52
	1.0	1.5	0.14	2.35	82	95
	1.4	1.8	0.16	2.72	66	76
	1.7	2.1	0.18	3.04	54	62
	2.1	2.4	0.20	3.33	45	52
	1.0	1.5	0.10	1.57	82	95
	1.4	1.8	0.11	1.81	66	76
	1.7	2.1	0.12	2.02	54	62
	2.1	2.4	0.13	2.22	45	52
	1.0	1.5	0.05	0.78	82	95
	1.4	1.8	0.05	0.91	66	76
	1.7	2.1	0.06	1.01	54	62
	2.1	2.4	0.07	1.11	45	52

12 Series HE-VAN						
23° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
	1.0	2.7	0.38	6.33	50.5	58.3
	1.4	3.0	0.44	7.31	47.3	54.6
	1.7	3.4	0.49	8.18	43.7	50.4
	2.1	3.7	0.54	8.96	40.2	46.4
	1.0	2.7	0.28	4.75	50.5	58.3
	1.4	3.0	0.33	5.48	47.3	54.6
	1.7	3.4	0.37	6.16	43.7	50.4
	2.1	3.7	0.40	6.72	40.2	46.4
	1.0	2.7	0.19	3.17	50.5	58.3
	1.4	3.0	0.22	3.66	47.3	54.6
	1.7	3.4	0.25	4.09	43.7	50.4
	2.1	3.7	0.27	4.48	40.2	46.4
	1.0	2.7	0.09	1.58	50.5	58.3
	1.4	3.0	0.11	1.83	47.3	54.6
	1.7	3.4	0.12	2.04	43.7	50.4
	2.1	3.7	0.13	2.24	40.2	46.4

10 Series HE-VAN						
27° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
	1.0	2.1	0.29	4.78	64	74
	1.4	2.4	0.34	5.52	56	65
	1.7	2.7	0.37	6.17	50	57
	2.1	3.1	0.41	6.76	44	51
	1.0	2.1	0.22	3.59	64	74
	1.4	2.4	0.25	4.14	56	65
	1.7	2.7	0.28	4.63	50	57
	2.1	3.1	0.31	5.07	44	51
	1.0	2.1	0.15	2.39	64	74
	1.4	2.4	0.17	2.76	56	65
	1.7	2.7	0.19	3.09	50	57
	2.1	3.1	0.21	3.38	44	51
	1.0	2.1	0.07	1.20	64	74
	1.4	2.4	0.08	1.38	56	65
	1.7	2.7	0.09	1.54	50	57
	2.1	3.1	0.10	1.69	44	51

15 Series HE-VAN						
25° Trajectory						
Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
	1.0	3.4	0.59	9.91	52.9	61.1
	1.4	3.7	0.69	11.44	51.3	59.3
	1.7	4.3	0.77	12.79	42.2	48.7
	2.1	4.6	0.84	14.01	40.2	46.5
	1.0	3.4	0.45	7.43	52.9	61.1
	1.4	3.7	0.51	8.58	51.3	59.3
	1.7	4.3	0.58	9.59	42.2	48.7
	2.1	4.6	0.63	10.51	40.2	46.5
	1.0	3.4	0.30	4.95	52.9	61.1
	1.4	3.7	0.34	5.72	51.3	59.3
	1.7	4.3	0.38	6.39	42.2	48.7
	2.1	4.6	0.42	7.00	40.2	46.5
	1.0	3.4	0.15	2.48	52.9	61.1
	1.4	3.7	0.17	2.86	51.3	59.3
	1.7	4.3	0.19	3.20	42.2	48.7
	2.1	4.6	0.21	3.50	40.2	46.5

**Note:** All HE-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  
**Note:** Radius reduction over 25% of the normal throw of the nozzle is not recommended

## 5000 Series

Engineered to be the Industry's Most Reliable and Best Performing Rotor

### Features

- Oversized wiper seal prevents leaks and protects internals from debris
- Rain Curtain™ nozzles deliver even distribution over the entire radius including large wind resistant droplets and gentle close-in watering resulting in greener turf using less water
- A history of proven performance and reliability tested in millions of installations
- Self-flushing arc adjustment port that prevents buildup of debris
- 5 year trade warranty

### Operating Specifications

- Precipitation rate: 5 to 38 mm/h
- Radius: 7.6 to 15.2 m
- Radius may be reduced up to 25% with radius reduction screw
- Pressure: 1.7 to 4.5 bar
- Flow Rate: 3.0 to 36.6 l/m; 0.17 to 2.19 m³/h
- Reversing full- and part-circle adjustment from 40° - 360°
- Standard nozzle trajectory of 25°. Low angle nozzle trajectory of 10°. MPR nozzles varied nozzle trajectory between 12° - 25°.

### Optional Features

- **Plus (+) Flow shutoff** – “The Green Top.” Reduce downtime on jobs by flushing and nozzling rotors without running back and forth to the controller or valves
- **PRS (R)** with flow optimizer technology. The 3.1 bar pressure regulator lowers water bills, provides exact flow of each rotor, equalizes lateral lines, and eliminates misting and fogging
- **SAM Seal-A-Matic™** check valve holds up to 2.1 m of elevation change
- **Stainless steel (SS) riser** helps deter vandalism on public turf areas (available on 5004 and 5006 models)


### Models

Consult “How to Specify” table for product models and features. Not all combinations are offered.


- 5004: 4" (10 cm) pop-up
- 5006: 6" (15 cm) pop-up
- 5012: 12" (30.5 cm) pop-up




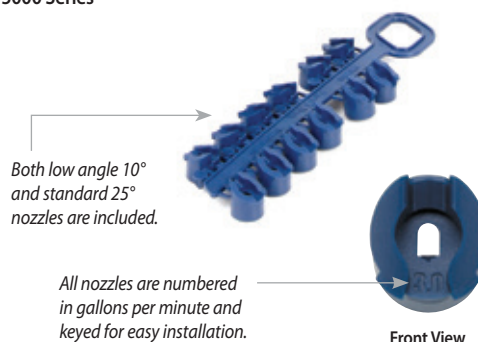
5000 Series

 5 to 37 mm/h

 1.7 to 4.5 bar

 3.0 to 36.6 l/m  
0.17 to 2.19 m³/h

 4": 10 cm  
6": 15 cm  
12": 30.5 cm  
4": 18.5 cm  
6": 24.5 cm  
12": 42.9 cm  
3/4" NPT



### How to Specify

5004 - + - PC - SAM-R-SS

Options  
SAM  
R: PRS  
SS: Stainless Steel

Rotation  
PC: Reversing Part Circle  
FC: Full Circle

Model  
Plus (Flow Shut-off)

Model  
5004: 4" (10 cm) pop-up  
5006: 6" (15 cm) pop-up  
5012: 12" (30.5 cm) pop-up

Note: Certain specifications not available for some rotor series.

5000 Series Std. Angle Rain Curtain™ Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
2.0	1.5	10.2	0.28	4.8	5	6
	2.0	10.8	0.36	6.0	6	7
	2.5	10.9	0.44	7.2	7	9
	3.0	11.2	0.55	9.0	9	10
	4.0	11.6	0.71	12.0	11	12
	5.0	12.1	0.91	15.0	13	15
	6.0	12.4	1.05	17.4	15	17
	8.0	11.8	1.45	24.0	32	37
2.5	1.5	10.4	0.31	5.4	6	7
	2.0	11.0	0.41	6.6	7	8
	2.5	11.3	0.50	8.4	8	9
	3.0	11.2	0.62	10.2	9	11
	4.0	12.3	0.81	13.2	11	13
	5.0	12.7	1.03	17.4	13	15
	6.0	13.2	1.21	20.4	14	16
	8.0	13.3	1.63	27.0	24	28
3.0	1.5	10.6	0.34	6.0	6	7
	2.0	11.2	0.45	7.8	7	8
	2.5	11.3	0.56	9.6	9	10
	3.0	12.1	0.69	11.4	9	11
	4.0	12.7	0.89	15.0	11	13
	5.0	13.5	1.13	18.6	12	14
	6.0	13.4	1.34	22.2	13	17
	8.0	13.4	1.79	30.0	23	27
3.5	1.5	10.7	0.37	6.0	7	8
	2.0	11.3	0.49	8.4	8	9
	2.5	11.3	0.60	10.2	9	11
	3.0	12.2	0.74	12.6	10	12
	4.0	12.8	0.97	16.2	12	14
	5.0	13.7	1.23	20.4	13	15
	6.0	14.2	1.45	24.0	13	15
	8.0	14.9	1.93	32.4	20	24
4.0	1.5	10.6	0.40	6.6	7	8
	2.0	11.1	0.52	9.0	8	10
	2.5	11.3	0.64	10.8	10	12
	3.0	12.2	0.80	13.2	11	12
	4.0	12.8	1.04	17.4	13	15
	5.0	13.7	1.32	22.2	14	16
	6.0	14.9	1.55	25.8	14	16
	8.0	15.2	2.06	34.2	21	25
4.5	1.5	10.4	0.42	7.2	8	9
	2.0	10.7	0.55	9.0	10	11
	2.5	11.3	0.68	11.4	11	12
	3.0	12.2	0.84	13.8	11	13
	4.0	12.8	1.10	18.0	13	15
	5.0	13.7	1.40	23.4	15	17
	6.0	14.6	1.64	28.2	15	18
	8.0	15.2	2.19	36.6	19	22

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1. See page 144 for complete ASABE Test Certification Statement.

5000 Series Low Angle Nozzle Performance						
Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
1.7	1.0 LA	7.6	0.17	3.0	6	7
	1.5 LA	8.2	0.26	4.2	8	9
	2.0 LA	8.8	0.33	5.4	9	10
	3.0 LA	8.8	0.51	8.4	13	15
2.0	1.0 LA	8.0	0.18	3.0	6	6
	1.5 LA	8.6	0.28	4.8	8	9
	2.0 LA	9.1	0.36	6.0	9	10
	3.0 LA	9.3	0.55	9.0	13	15
2.5	1.0 LA	8.6	0.20	3.6	5	6
	1.5 LA	9.2	0.32	5.4	8	9
	2.0 LA	9.5	0.41	6.6	9	10
	3.0 LA	10.1	0.62	10.2	12	14
3.0	1.0 LA	8.8	0.22	3.6	6	7
	1.5 LA	9.4	0.35	6.0	8	9
	2.0 LA	9.7	0.45	7.8	10	11
	3.0 LA	10.6	0.68	11.4	12	14
3.5	1.0 LA	8.8	0.24	4.2	6	7
	1.5 LA	9.4	0.38	6.6	9	10
	2.0 LA	9.9	0.49	8.4	10	11
	3.0 LA	10.8	0.74	12.6	13	15
4.0	1.0 LA	8.8	0.26	4.2	7	8
	1.5 LA	9.4	0.41	6.6	9	11
	2.0 LA	10.1	0.52	9.0	10	12
	3.0 LA	11.0	0.80	13.2	13	15
4.5	1.0 LA	8.8	0.27	4.8	7	8
	1.5 LA	9.4	0.44	7.2	10	11
	2.0 LA	10.1	0.56	9.0	11	13
	3.0 LA	11.0	0.84	13.8	14	16

**Tools**

**Holdup Tool with Bubble Level**

**Features**

- Combination holdup tool/ bubble level makes proper installation easier
- Works with 5000, Falcon® 6504, and 8005



HOLDUPTOOL

**Model**

- HOLDUPTOOL

**Rotor Tool**

**Features**

- Flat blade screwdriver and pull-up tool all in one
- Works with 3500, 5000, Falcon® 6504, and 8005



ROTORTOOL

**Model**

- ROTORTOOL



## 5000 PRS Std. Angle Rain Curtain™ Nozzle Performance

Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
1.7	1.5	10.1	0.25	4.2	5	6
	2.0	10.7	0.34	5.4	6	7
	2.5	10.7	0.41	6.6	7	8
	3.0	11.0	0.51	8.4	8	10
	4.0	11.3	0.66	10.8	10	12
	5.0	11.9	0.84	13.8	12	14
	6.0	11.9	0.97	16.2	14	16
	8.0	11.0	1.34	22.2	22	26
2.0	1.5	10.2	0.28	4.8	5	6
	2.0	10.8	0.36	6.0	6	7
	2.5	10.9	0.44	7.2	7	9
	3.0	11.2	0.55	9.0	9	10
	4.0	11.6	0.71	12.0	11	12.6
	5.0	12.1	0.91	15.0	13	15
	6.0	12.4	1.05	17.4	15	17
	8.0	11.8	1.45	24.0	32	37
2.5	1.5	10.4	0.31	5.4	6	7
	2.0	11.0	0.41	6.6	7	8
	2.5	11.3	0.50	8.4	8	9
	3.0	11.2	0.62	10.2	9	11
	4.0	12.3	0.81	13.2	11	13
	5.0	12.7	1.03	17.4	13	15
	6.0	13.2	1.21	20.4	14	16
	8.0	13.3	1.63	27.0	24	18
3.0	1.5	10.6	0.34	6.0	6	7
	2.0	11.2	0.45	7.8	7	8
	2.5	11.3	0.56	9.6	9	10
	3.0	12.1	0.69	11.4	9	11
	4.0	12.7	0.89	16.8	11	13
	5.0	13.5	1.13	18.6	12	14
	6.0	13.9	1.34	22.2	14	16
	8.0	14.1	1.79	30.0	23	27
3.5 – 5.2	1.5	10.6	0.35	6.0	6	7
	2.0	11.2	0.47	7.8	8	9
	2.5	11.3	0.58	10.2	9	11
	3.0	12.1	0.71	12.0	10	11
	4.0	12.7	0.92	15.6	12	13
	5.0	13.5	1.17	19.2	13	15
	6.0	13.9	1.39	22.8	14	17
	8.0	14.1	1.85	31.2	18	21

## 5000 PRS Low Angle Nozzle Performance

Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
1.7	1.0 LA	7.6	0.17	3.0	6	7
	1.5 LA	8.2	0.26	4.2	8	9
	2.0 LA	8.8	0.33	5.4	9	10
	3.0 LA	8.8	0.51	8.4	13	15
2.0	1.0 LA	8.0	0.18	3.0	6	6
	1.5 LA	8.6	0.28	4.8	8	9
	2.0 LA	9.1	0.36	6.0	9	10
	3.0 LA	9.3	0.55	9.0	13	15
2.5	1.0 LA	8.6	0.20	3.6	5	6
	1.5 LA	9.2	0.32	5.4	8	9
	2.0 LA	9.5	0.41	6.6	9	10
	3.0 LA	10.1	0.62	10.2	12	14
3.0	1.0 LA	8.8	0.22	3.6	6	7
	1.5 LA	9.4	0.35	6.0	8	9
	2.0 LA	9.7	0.45	7.8	10	11
	3.0 LA	10.6	0.68	11.4	12	14
3.5 – 5.2	1.0 LA	8.8	0.23	3.6	6	7
	1.5 LA	9.4	0.36	6.0	8	10
	2.0 LA	9.7	0.47	7.8	10	12
	3.0 LA	10.6	0.70	12.0	13	15

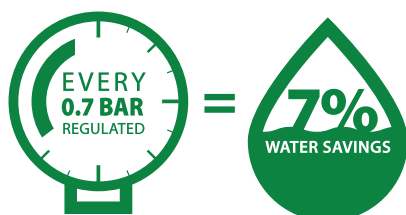
Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1. See page 144 for complete ASABE Test Certification Statement.



## 5000 Series MPR Nozzles

Perfectly Balanced Coverage with the 5000 Series Rotor

### Features

- Rain Curtain™ nozzles deliver even distribution over the entire radius including large wind resistant droplets and gentle close-in watering resulting in greener turf using less water
- Precipitation rate is automatically matched with a uniform radius that does not require stream deflection
- Matched 0.6"/hour precipitation rates enable large and small turf areas to be zoned together by mixing rotors and Rain Bird R-VAN rotary nozzles

### Models

- 5000MPRMPK: 5000/5000 Plus Series MPR nozzle tree multi pack- 7.6 m, 9.1 m, 10.7 m radius in Quarter, Third, Half, Full arc



Installing Rotors with 5000 series MPR nozzles and Rain Bird R-VAN Rotary Nozzles in the same zone allows for matched precipitation from 2.4m to 10.7m







5000 Series MPR Nozzles







### How to Specify

<b>5000 - MPR - 25 - Q</b>	
Model Rotor	Pattern Q=Quarter T=Third H=Half F=Full
	Radius Range 25' (7.6 m) 30' (9.1 m) 35' (10.7 m)
	Nozzle Matched Precipitation rate





#### 5000-MPR-25 (Red)

Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	7.0	0.17	3.0	13.7	15.8
	2.4	7.3	0.20	3.6	14.9	17.3
	3.1	7.6	0.23	3.6	15.6	18.1
	3.8	7.6	0.25	4.2	17.4	20.1
	4.5	7.6	0.27	4.8	18.9	21.9
Third 	1.7	7.0	0.23	3.6	13.9	16.0
	2.4	7.3	0.27	4.8	15.4	17.8
	3.1	7.6	0.31	5.4	16.2	18.7
	3.8	7.6	0.35	6.0	18.0	20.7
	4.5	7.6	0.38	6.6	19.6	22.6
Half 	1.7	7.0	0.33	5.4	13.3	15.4
	2.4	7.3	0.39	6.6	14.7	17.0
	3.1	7.6	0.45	7.2	15.5	17.9
	3.8	7.6	0.50	8.4	17.3	20.0
	4.5	7.6	0.55	9.0	18.9	21.8
Full 	1.7	7.0	0.63	10.8	12.8	14.8
	2.4	7.3	0.76	12.6	14.2	16.4
	3.1	7.6	0.87	14.4	14.9	17.3
	3.8	7.6	0.97	16.2	16.6	19.2
	4.5	7.6	1.05	17.4	18.1	20.9

#### 5000-MPR-30 (Green)

Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	8.8	0.23	3.6	12.0	13.8
	2.4	9.1	0.28	4.8	13.4	15.4
	3.1	9.1	0.32	5.4	15.2	17.6
	3.8	9.1	0.35	6.0	17.0	19.6
	4.5	9.1	0.38	6.6	18.4	21.2
Third 	1.7	8.8	0.30	4.8	11.7	13.5
	2.4	9.1	0.37	6.0	13.2	15.2
	3.1	9.1	0.42	7.2	15.1	17.4
	3.8	9.1	0.47	7.8	16.8	19.4
	4.5	9.1	0.51	8.4	18.3	21.1
Half 	1.7	8.8	0.49	8.4	12.5	14.4
	2.4	9.1	0.59	9.6	14.1	16.2
	3.1	9.1	0.67	11.4	16.1	18.6
	3.8	9.1	0.75	12.6	17.9	20.7
	4.5	9.1	0.82	13.8	19.6	22.6
Full 	1.7	8.8	0.96	16.2	12.3	14.2
	2.4	9.1	1.15	19.2	13.8	15.9
	3.1	9.1	1.31	21.6	15.7	18.1
	3.8	9.1	1.45	24.0	17.4	20.0
	4.5	9.1	1.57	26.4	18.8	21.7

#### 5000-MPR-35 (Beige)

Nozzle	Pressure bar	Radius m	Flow m <sup>3</sup> /h	Flow l/m	Precip mm/h	Precip mm/h
Quarter 	1.7	9.8	0.32	5.4	13.4	15.4
	2.4	10.4	0.38	6.6	14.1	16.3
	3.1	10.7	0.44	7.2	15.3	17.7
	3.8	10.7	0.48	7.8	17.0	19.6
	4.5	10.7	0.52	9.0	18.4	21.3
Third 	1.7	9.8	0.40	6.6	12.7	14.6
	2.4	10.4	0.49	8.4	13.6	15.8
	3.1	10.7	0.56	9.6	14.7	17.0
	3.8	10.7	0.62	10.2	16.4	18.9
	4.5	10.7	0.68	11.4	17.9	20.7
Half 	1.7	9.8	0.62	10.2	13.1	15.2
	2.4	10.4	0.76	12.6	14.1	16.3
	3.1	10.7	0.87	14.4	15.2	17.6
	3.8	10.7	0.96	16.2	16.9	19.5
	4.5	10.7	1.05	17.4	18.4	21.3
Full 	1.7	9.8	1.22	20.4	12.8	14.8
	2.4	10.4	1.50	25.2	14.0	16.2
	3.1	10.7	1.72	28.8	15.1	17.5
	3.8	10.7	1.91	31.8	16.8	19.4
	4.5	10.7	2.09	34.8	18.3	21.2

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASABE Standards; ASABE S398.1. See page 144 for complete ASABE Test Certification Statement.

## HV Series

High Value Valve. High Performance. Big Savings.

### Features

- Patented, eccentric, balanced pressure, Buna-N diaphragm with self-cleaning 200 micron pilot water filter and captured stainless steel spring – Eccentric design provides smoother closing, less water hammer
- Only four durable, captured multi-drive bonnet screws that come out with half the number of turns for fast and easy servicing – at least twice as fast as the competition
- Glass-filled polypropylene body for strength (slip by slip model bodies are PVC)
- All popular model configurations available
- Compact design, 6.5 cm spin radius for tight installations
- Reverse flow, normally closed design
- External bleed to manually flush system of dirt and debris during installation and system start-up
- Internal bleed for spray-free manual operation
- Operates in low-flow and Landscape Drip applications when a 74 micron filter is installed upstream

### Specifications

- Pressure: 1,0 to 10,3 bar
- Flow: 0,05 to 6,82 m<sup>3</sup>/h; 0,01 to 1,89 l/s; for flows below 0,68 m<sup>3</sup>/h; 0,19 l/s or any Landscape Drip application, use a 200 mesh filter installed upstream
- Operating Temperatures: Water temperature up to 43° C; ambient temperature up to 52° C
- 24 VAC 50/60 Hz (cycles/sec.) solenoid
- Inrush current: 0.290A at 50/60 Hz
- Holding current: 0.091A at 50/60 Hz
- Solenoid Coil resistance: 70-85 Ohms (4.4° C - 43° C)

HV Valve Pressure Loss (bar)			METRIC	
Flow m <sup>3</sup> /h	l/m	1" HV bar	1" HV-MB bar	
0.25	4.17	0.11	0.12	
0.75	12.50	0.14	0.14	
1.00	16.67	0.16	0.16	
2.00	33.34	0.23	0.19	
5.00	83.35	0.32	0.31	
7.50	125.03	0.42	0.94	

\* Rain Bird recommends flow rates in the supply line not to exceed 2.3 m/s in order to reduce the effects of water hammer

### Dimensions

- Height: 11.7 cm
- Height (F): 14.3 cm
- Height (MM): 11.4 cm
- Length: 11.2 cm
- Length (MM): 14.4 cm
- Width: 7.9 cm

### Models

Select models shown. Review your regional price list for complete availability.

- I100-HV-BSP: 1" BSP female x female
- I100-HVF-BSP: 1" BSP female x female
- I100-HVF-BSP-9V: 1" BSP female x female, 9V DC Latching Solenoid
- I100-HV-MM: 1" male x male
- I100-HV-MM-9V: 1" male x male, 9V DC Latching Solenoid

### Recommendations

1. Rain Bird recommends flow rates that result in discharge velocities in the supply line not to exceed 2.3 m/s in order to reduce the effects of water hammer.
2. Rain Bird residential valves cannot be used with PRS pressure regulating modules.
3. Not recommended for use with two-wire systems.



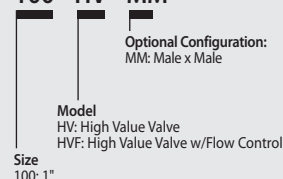
100HV



100HVF

### How to Specify

100 - HV - MM



Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type (1" only)

## ESP-RZXE Series Controllers

The Rain Bird ESP-RZXE WiFi Compatible Series provides a contractor grade, fixed station irrigation controller for residential and light commercial applications. The ESP-RZXE Controller provides zone based set up that is easier to understand by untrained users. 4, 6 and 8 zone models are available.

### Applications

The ESP-RZXE provides flexible scheduling features that make the controller ideal for a wide variety of applications including residential and light-commercial irrigation systems.

### Features

#### Easy to Use

- The ESP-RZXE Controller was designed with ease of use in mind. Zone-based scheduling allows every valve to be scheduled independently; no more explaining “programs” to end users, virtually eliminating call-backs. The large LCD display shows all of the programming for each zone at the same time.
- Simple graphic based user interface is easy to explain and presents every controller feature at your fingertips.

#### Easy to Install

- The ESP-RZXE Controller requires only two mounting screws. A guide for ½” or ¾” conduit allows for professional installation of field wires into the cabinet.

#### Controller Hardware

- Plastic wall-mount case
- 2 x AAA batteries for time and date backup
- Wire nuts for outdoor models

#### Controller Features

- WiFi compatible with the Rain Bird LNK WiFi Module
- Large LCD display with easy to navigate user interface
- Weather Sensor input with software override
- Master valve/pump start circuit
- Non-Volatile (100- year) program memory
- Programmable under battery power

#### Scheduling Features

- Zone based scheduling, allows for independent schedules assigned to each zone. (Run times, Start Times and Watering Days are customizable by zone)
- Contractor Rapid Programming™ automatically copies the Start Times and Watering Days from zone 1 to all remaining zones at initial set up
- 6 independent Start Times per zone
- 4 Watering Days options by zone: Custom days of week, ODD calendar days, EVEN calendar days, Cyclic (every 1 – 14 days)
- Manually water ALL zones or SINGLE zone on demand

### Advanced Features

- Electronic diagnostic circuit breaker
- Contractor Rapid Programming™ and “Copy previous Zone” for faster initial set up
- Contractor Default™ Save / Restore
- Rain Sensor bypass
- Rain Sensor bypass by Zone
- Manual water single or all zones

### Operating Specifications

- Zone timing: 0 to 199 min
- Seasonal Adjust: -90% to +100%
- Independent schedule per zone
- 6 Start Times per zone
- Program Day Cycles include Custom days of the week, Odd, Even, & Cyclical dates

### Electrical Specifications

- Input required: 230 VAC ± 10%, 50Hz
- Power back-up: 2 x AAA batteries maintain time and date while nonvolatile memory maintains the programming

### Certifications

- CE, IRAM, IPX4, RCM.
- For current certifications visit: [www.rainbird.com/RZXE](http://www.rainbird.com/RZXE)

### Dimensions

#### INDOOR

- Width: 16.9 cm
- Height: 15.0 cm
- Depth: 3.9 cm

#### OUTDOOR

- Width: 20.1 cm
- Height: 19.9 cm
- Depth: 3.9 cm

### MODELS

- RZXE4i-230V Indoor, 4 stations
- RZXE6i-230V Indoor, 6 stations
- RZXE8i-230V Indoor, 8 stations
- RZXE4-230V Outdoor, 4 stations
- RZXE6-230V Outdoor, 6 stations
- RZXE8-230V Outdoor, 8 stations



Outdoor Model



ESP-RZXE Indoor Model



## WPX Series

Battery-Operated Controller

### Features

#### Controller Features

- Waterproof case ensures long life, even when installed in a valve box
- Common programming features are easily accessed on one screen, making programming quick and easy
- Operates for approximately one full year using one 9-volt alkaline battery, or two years with two 9-volt alkaline batteries
- Large LCD display with easy to navigate user interface
- Sensor input with bypass override
- Mast valve/pump-start circuit (multi-zone units only)
- Non-volatile (100-year) program memory
- IP68 certified for protection against dust and water intrusion
- Plastic controller case has outstanding resistance to weather, yellowing and aging

#### Scheduling Features

- Dedicated manual watering button for easy operation
- Automatic zone-stacking ensures that only one valve irrigates at the same time. WPX will automatically irrigate the lower number zone first if zones are scheduled to water at the same time
- Contractor Rapid Programming™ automatically copies the start times and watering days from zone 1 to all remaining zones at initial setup
- Run times, start times, and watering days are customizable by zone
- 6 start times per zone
- 4 watering day options per zone: Custom days of the week, Cyclic, and ODD or EVEN calendar days
- Delay watering (1 to 9 days)

#### Controller Dimensions

- Width: 13.59 cm
- Height: 10.26 cm
- Depth: 6.15 cm
- Weight: 907 g

WPX Series  
Battery-Operated Controller



#### LCD Screen Size

- Width: 5.72 cm
- Height: 3.18 cm

#### Optional Wall Mount Dimensions

- Width: 10.76 cm
- Height: 17.60 cm
- Depth: 4.99 cm
- Weight: 107 g

#### Certifications

- cULus, CE, IP68. For current certifications visit: [www.rainbird.com/WPX](http://www.rainbird.com/WPX)

#### Models

- WPX1: 1-Zone Controller
- WPX2: 2-Zone Controller
- WPX4: 4-Zone Controller
- WPX6: 6-Zone Controller
- WPX1SOL: 1-Zone + 9V Solenoid
- WPX1DVKIT: 1-Zone + 1" DV Valve
- 9VMOUNT: Wall-mount kit



Optional wall mount bracket

## The Intelligent Use of Water.™

LEADERSHIP • EDUCATION • PARTNERSHIPS • PRODUCTS

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At Rain Bird, we believe it is our responsibility to develop products and technologies that use water efficiently. Our commitment also extends to education, training and services for our industry and our communities.

The need to conserve water has never been greater. We want to do even more, and with your help, we can. Visit [www.rainbird.com](http://www.rainbird.com) for more information about The Intelligent Use of Water.™



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