



High-Efficiency Variable Arc Spray Nozzles (HE-VAN)

Features

- Easy arc adjustment from 0° to 360° with a simple twist of the center collar to increase or decrease arc setting.
- ExactEdge™ takes the guesswork out of arc adjustment. As you turn the nozzle to the desired arc setting, you'll feel it lock into place for a clean, consistent edge every time.
- Patent pending Flow Control Technology provides superior close-in watering and uniform coverage across the entire pattern.
- Thicker streams and large water droplets for greater wind resistance.
- Matched precipitation rates with Rain Bird® MPR and U-Series Nozzles.
- A strong top deflector to minimize nozzle damage due to normal wear and tear.
- No special tools required.
- Stainless steel adjustment screw to adjust flow and radius, up to a 25% reduction in radius.
- Shipped with blue filter screens (0.02 x 0.02) to maintain precise radius adjustment and prevent clogging.
- Fits on all Rain Bird® 1800® Series Spray Heads, UNI-Spray™ Series Spray Heads and Rain Bird Shrub Adapters.

Models

- HE-VAN-12
- HE-VAN-15

Operating Range

- Radius*
 - » HE-VAN-12:
 - 9 to 12 feet (2,7 to 3,7 m)
 - » HE-VAN-15:
 - 11 to 15 feet (3,4 to 4,6 m)

Rain Bird® HE-VAN Efficiency Ratings

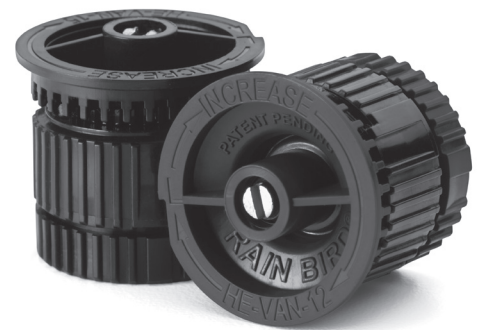
- Rain Bird® HE-VAN Nozzles deliver an average DU_{LQ} of 70%, more than a 40% improvement over typical variable arc spray nozzles.
- Rain Bird® HE-VAN Nozzles deliver a $SC \leq 1.6$, which is 35% lower than the typical variable arc spray nozzle.

Definitions

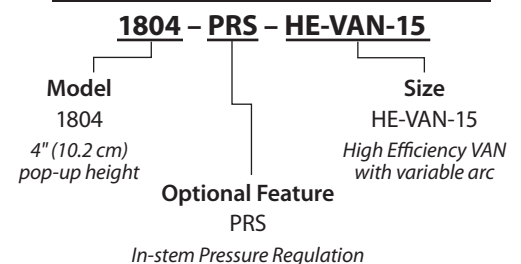
- **Distribution Uniformity (DU_{LQ}):** DU in irrigation is a measure of how uniformly water is applied to the area being watered.
 - » DU_{LQ} is calculated by taking the volume in the lowest quarter of catch can measurements and dividing it by the average volume of all catch can measurements.
- **Scheduling Coefficient (SC):** SC is a measure of how long a zone must be run in order to provide adequate water to the driest spot.

Specifications

- The plastic HE-VAN Nozzle deflector is constructed of UV-resistant plastic.
- The radius adjustment screw is constructed of stainless steel.
- The HE-VAN Nozzles is designed with patent pending Flow Control Technology to deliver an average DU_{LQ} of 70% and a SC of ≤ 1.6 .
- The nozzle accepts the Rain Bird blue filter screen to allow for radius adjustment.
- The plastic HE-VAN Nozzle is manufactured by Rain Bird Corporation, Azusa, California.



How to Specify



*These ranges are based on proper pressure at nozzle.

12 Series HE-VAN					
Nozzle	Pressure (psi)	Radius (ft.)	Flow (gpm)	■ Precipitation Rate (in/hr)	▲ Precipitation Rate (in/hr)
360° Arc					
	15	9	1.67	1.99	2.30
	20	10	1.93	1.86	2.15
	25	11	2.16	1.72	1.99
	30	12	2.37	1.58	1.83
270° Arc					
	15	9	1.25	1.99	2.30
	20	10	1.45	1.86	2.15
	25	11	1.62	1.72	1.99
	30	12	1.77	1.58	1.83
180° Arc					
	15	9	0.84	1.99	2.30
	20	10	0.97	1.86	2.15
	25	11	1.08	1.72	1.99
	30	12	1.18	1.58	1.83
90° Arc					
	15	9	0.42	1.99	2.30
	20	10	0.48	1.86	2.15
	25	11	0.54	1.72	1.99
	30	12	0.59	1.58	1.83

15 Series HE-VAN					
Nozzle	Pressure (psi)	Radius (ft.)	Flow (gpm)	■ Precipitation Rate (in/hr)	▲ Precipitation Rate (in/hr)
360° Arc					
	15	11	2.62	2.08	2.40
	20	12	3.02	2.02	2.33
	25	14	3.38	1.66	1.92
	30	15	3.70	1.58	1.83
270° Arc					
	15	11	1.96	2.08	2.40
	20	12	2.27	2.02	2.33
	25	14	2.53	1.66	1.92
	30	15	2.78	1.58	1.83
180° Arc					
	15	11	1.31	2.08	2.40
	20	12	1.51	2.02	2.33
	25	14	1.69	1.66	1.92
	30	15	1.85	1.58	1.83
90° Arc					
	15	11	0.65	2.08	2.40
	20	12	0.76	2.02	2.33
	25	14	0.84	1.66	1.92
	30	15	0.93	1.58	1.83

12 Series HE-VAN						Metric
Nozzle	Pressure (bar)	Radius (m)	Flow (m³/h)	Flow (l/m)	■ Precipitation Rate (mm/h)	▲ Precipitation Rate (mm/h)
360° Arc						
	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
270° Arc						
	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
180° Arc						
	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
90° Arc						
	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

15 Series HE-VAN						Metric
Nozzle	Pressure (bar)	Radius (m)	Flow (m³/h)	Flow (l/m)	■ Precipitation Rate (mm/h)	▲ Precipitation Rate (mm/h)
360° Arc						
	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
270° Arc						
	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
180° Arc						
	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
90° Arc						
	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



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