

UNI-Spray™ Series

The Universal Spray Head

Primary Application

The UNI-Spray™ is designed for those applications where flexibility and convenience are primary considerations. These reliable, compact spray heads are shipped with or without pre-installed Variable Arc Nozzles (VANs) that are adjustable from 0° to full circle operation, saving hours of installation time, effort and money.

Features

- Pressure-activated, wiper seal prevents excessive flow-by and water waste. Keeps debris from entering upon retraction.
- Durable stem ratchet allows for quick and easy nozzle pattern alignment.
- Small exposed cover makes the unit virtually invisible for more attractive landscapes.
- Rugged cover and body provide durability in high pressure and surge conditions.
- Plastic and stainless steel materials resist corrosion.
- UNI-Spray™ accepts all Rain Bird® Series nozzles which simplifies inventory management.
- Three-year trade warranty.

Operating Range

- Spacing: 10 VAN Series:
8 to 10 feet (2,4 to 3,0 m)
- 12 VAN Series: 10 to 12 feet (3,0 to 3,7 m)
- 15 VAN Series: 12 to 15 feet (3,7 to 4,6 m)
- 18 VAN Series: 14 to 18 feet (4,3 to 5,5 m)
- Pressure: 15 to 70 psi (1,0 to 4,8 bar)
- Optimum Pressure: 30 psi (2 bar)
- Adjustable nozzle arc range: 0°-360°

Specifications

- Flow-by: 0 at 10 psi (0,75 bar) or greater; 0.50 Gpm (0,11 m³/h; 0,03 l/s) otherwise

Dimensions

- ½" (15/21) NPT female threaded inlet
- Body height:
- US-400: 5 7/8" (15 cm)
- Exposed surface diameter: 1 ¼" (3,2 cm)

Models*

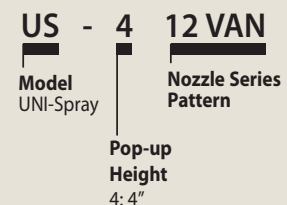
- US-400: 4" pop-up height (10,3 cm)
- US-410 VAN: 4" pop-up height (10,3 cm) with 10-VAN attached
- US-412 VAN: 4" pop-up height (10,3 cm) with 12-VAN attached
- US-415 VAN: 4" pop-up height (10,3 cm) with 15-VAN attached
- US-418 VAN: 4" pop-up height (10,3 cm) with 18-VAN attached

**The UNI-Spray™ sprinkler body accepts all Rain Bird nozzles.*

For performance data of other Rain Bird nozzles, see the Landscape Irrigation Products Catalog-Sprays Section.



How To Specify



This specifies a UNI-Spray body with a 4" (10,3 cm) pop-up height; 12 foot (3,6 m) variable arc nozzle (VAN)

10 Series VAN						
10° Trajectory						
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h	
360° Arc 	15	7	1.93	3.80	4.39	
	20	8	2.32	3.50	4.04	
	25	9	2.52	3.00	3.46	
	30	10	2.60	2.50	2.89	
270° Arc 	15	7	1.45	3.80	4.39	
	20	8	1.75	3.50	4.04	
	25	9	1.89	3.00	3.46	
	30	10	2.10	2.70	3.12	
180° Arc 	15	7	0.97	3.80	4.39	
	20	8	1.20	3.50	4.04	
	25	9	1.26	3.00	3.46	
	30	10	1.45	2.80	3.23	
90° Arc 	15	7	0.48	3.80	4.39	
	20	8	0.58	3.50	4.04	
	25	9	0.63	3.00	3.46	
	30	10	0.75	2.90	3.35	

10 Series VAN							METRIC
10° Trajectory							
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
360° Arc 	1.0	2.1	0.44	7.3	96	111	
	1.5	2.4	0.53	9.0	89	103	
	2.0	2.7	0.57	9.8	76	88	
	2.1	3.1	0.59	9.8	63	73	
270° Arc 	1.0	2.1	0.33	5.5	96	111	
	1.5	2.4	0.4	6.8	89	103	
	2.0	2.7	0.43	7.8	76	88	
	2.1	3.1	0.48	7.9	68	79	
180° Arc 	1.0	2.1	0.22	3.7	96	111	
	1.5	2.4	0.27	4.6	89	103	
	2.0	2.7	0.29	5.3	76	88	
	2.1	3.1	0.33	5.5	71	82	
90° Arc 	1.0	2.1	0.11	1.8	96	111	
	1.5	2.4	0.13	2.3	89	103	
	2.0	2.7	0.14	2.7	76	88	
	2.1	3.1	0.17	2.8	73	85	

12 Series VAN						
15° Trajectory						
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h	
360° Arc 	15	9	1.56	1.86	2.14	
	20	10	1.86	1.79	2.06	
	25	11	2.12	1.68	1.95	
	30	12	2.36	1.58	1.82	
270° Arc 	15	9	1.17	1.86	2.14	
	20	10	1.39	1.79	2.06	
	25	11	1.59	1.68	1.94	
	30	12	1.77	1.58	1.82	
180° Arc 	15	9	0.78	1.86	2.14	
	20	10	0.93	1.79	2.06	
	25	11	1.06	1.68	1.95	
	30	12	1.18	1.58	1.82	
90° Arc 	15	9	0.39	1.86	2.14	
	20	10	0.46	1.79	2.06	
	25	11	0.53	1.68	1.95	
	30	12	0.59	1.58	1.82	

12 Series VAN							METRIC
15° Trajectory							
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
360° Arc 	1.0	2.7	0.35	5.80	48	55	
	1.5	3.2	0.44	7.37	43	50	
	2.0	3.6	0.52	8.75	41	47	
	2.1	3.7	0.54	9.02	40	46	
270° Arc 	1.0	2.7	0.26	4.35	48	55	
	1.5	3.2	0.33	5.53	43	50	
	2.0	3.6	0.39	6.56	41	47	
	2.1	3.7	0.41	6.76	40	46	
180° Arc 	1.0	2.7	0.17	2.90	48	55	
	1.5	3.2	0.22	3.69	43	50	
	2.0	3.6	0.26	4.37	41	47	
	2.1	3.7	0.27	4.51	40	46	
90° Arc 	1.0	2.7	0.09	1.45	48	55	
	1.5	3.2	0.11	1.84	43	50	
	2.0	3.6	0.13	2.19	41	47	
	2.1	3.7	0.14	2.25	40	46	

Note: Turning the radius reduction screw may be required to achieve catalog radius and flow when the arc is set at less than maximum arc

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions

15 Series VAN

23° Trajectory

Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
360° Arc 	15	11	2.60	2.07	2.39
	20	12	3.00	2.01	2.32
	25	14	3.30	1.62	1.87
	30	15	3.70	1.58	1.83
270° Arc 	15	11	1.95	2.07	2.39
	20	12	2.25	2.01	2.32
	25	14	2.48	1.62	1.87
	30	15	2.78	1.58	1.83
180° Arc 	15	11	1.30	2.07	2.39
	20	12	1.50	2.01	2.32
	25	14	1.65	1.62	1.87
	30	15	1.85	1.58	1.83
90° Arc 	15	11	0.65	2.07	2.39
	20	12	0.75	2.01	2.32
	25	14	0.82	1.62	1.87
	30	15	0.92	1.58	1.83

15 Series VAN

METRIC

23° Trajectory

Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
360° Arc 	1.0	3.4	0.60	9.8	52	60
	1.5	3.9	0.72	11.8	47	55
	2.0	4.5	0.84	13.7	41	48
	2.1	4.6	0.84	14.0	40	46
270° Arc 	1.0	3.4	0.45	7.4	52	60
	1.5	3.9	0.54	8.8	47	55
	2.0	4.5	0.63	10.3	41	48
	2.1	4.6	0.63	10.5	40	46
180° Arc 	1.0	3.4	0.30	4.9	52	60
	1.5	3.9	0.36	5.9	47	55
	2.0	4.5	0.42	6.9	41	48
	2.1	4.6	0.42	7.0	40	46
90° Arc 	1.0	3.4	0.15	2.5	52	60
	1.5	3.9	0.18	2.9	47	55
	2.0	4.5	0.21	3.4	41	48
	2.1	4.6	0.21	3.5	40	46

18 Series VAN

26° Trajectory

Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
360° Arc 	15	14	4.21	2.07	2.39
	20	15	4.70	2.01	2.32
	25	17	4.86	1.62	1.87
	30	18	5.32	1.58	1.83
270° Arc 	15	14	3.16	2.07	2.39
	20	15	3.52	2.01	2.32
	25	17	3.65	1.62	1.87
	30	18	3.99	1.58	1.83
180° Arc 	15	14	2.11	2.07	2.39
	20	15	2.35	2.01	2.32
	25	17	2.43	1.62	1.87
	30	18	2.66	1.58	1.83
90° Arc 	15	14	1.05	2.07	2.39
	20	15	1.17	2.01	2.32
	25	17	1.22	1.62	1.87
	30	18	1.33	1.58	1.83

18 Series VAN

METRIC

26° Trajectory

Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
360° Arc 	1.0	4.3	0.96	15.9	52	60
	1.5	4.8	1.07	18.0	47	55
	2.0	5.4	1.20	19.8	41	48
	2.1	5.5	1.21	20.1	40	46
270° Arc 	1.0	4.3	0.72	12.0	52	60
	1.5	4.8	0.80	13.5	47	55
	2.0	5.4	0.90	14.8	41	48
	2.1	5.5	0.91	15.1	40	46
180° Arc 	1.0	4.3	0.48	8.0	52	60
	1.5	4.8	0.54	9.0	47	55
	2.0	5.4	0.60	9.9	41	48
	2.1	5.5	0.61	10.1	40	46
90° Arc 	1.0	4.3	0.24	4.0	52	60
	1.5	4.8	0.27	4.5	47	55
	2.0	5.4	0.30	5.0	41	48
	2.1	5.5	0.30	5.0	40	46

Note: Turning the radius reduction screw may be required to achieve catalog radius and flow when the arc is set at less than maximum arc

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data taken in zero wind conditions

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