

Plastic U-Series Nozzles

Use 30% Less Water*

The patented U-Series nozzle is the first plastic nozzle with a second orifice for close-in watering and more uniform water distribution**. Its unique design uses 30% less water* than conventional spray nozzles. U-Series Nozzles shorten run times, save money and water, and reduce waste.

Features

- Additional orifice for close-in watering. Minimizes dry spots around spray heads
- Low scheduling coefficient for efficient watering**
- Matched precipitation rate between sets and matched flow (gpm, m³/h and l/s) and precipitation rates with 1800 Series MPR nozzles
- Greater design and installation flexibility. U-Series nozzles feature complete fixed arc sets in 8', 10', 12', and 15' radius options
- Fine mesh screen protects bottom orifice from debris
- Stainless steel adjustment screw to adjust flow and radius
- Five year trade warranty
- Fits all Rain Bird sprinklers and shrub adapters

Operating Range

- Spacing: 5 to 15 feet (1,8 to 4,6)
- Pressure: 15 to 30 psi (1 to 2,1 bar)
- Optimum pressure: 30 psi (2,1 bar)

*When U-Series dual-orifice nozzles are installed instead of standard nozzles on every spray head in the zone. Results may vary based on site-specific conditions such as sprinkler spacing, wind, temperature, soil and grass type.

Models

- U-8Q: 8-foot quarter-circle pattern nozzle
- U-8T: 8-foot one-third-circle pattern nozzle
- U-8H: 8-foot half-circle pattern nozzle
- U-8F: 8-foot full-circle pattern nozzle
- U-10Q: 10-foot quarter-circle pattern nozzles
- U-10T: 10-foot one-third-circle pattern nozzle
- U-10H: 10-foot half-circle pattern nozzle
- U-10F: 10-foot full-circle pattern nozzle
- U-12Q: 12-foot quarter-circle pattern nozzle
- U-12T: 12-foot one-third-circle pattern nozzle
- U-12H: 12-foot half-circle pattern nozzle
- U-12TT: 12-foot two-thirds-circle pattern nozzle
- U-12TQ: 12-foot three-quarter-circle pattern nozzle
- U-12F: 12-foot full-circle pattern nozzle
- U-15Q: 15-foot quarter-circle pattern nozzle
- U-15T: 15-foot one-third-circle pattern nozzle
- U-15H: 15-foot half-circle pattern nozzle
- U-15TT: 15-foot two-thirds-circle pattern nozzle
- U-15TQ: 15-foot three-quarter-circle pattern nozzle
- U-15F: 15-foot full-circle pattern nozzle

**Scheduling Coefficient (SC) measures the efficiency of spray heads. SC measures how much more you must water your ENTIRE area for the driest sections to receive sufficient water. The lower the SC, the better the spray heads distribute water.



How To Specify

1804 - U12H

Nozzle Series/Pattern
U12H: 12 Series U-Series nozzle
with half circle pattern

Model

1804: 4" (10.2 cm) pop-up height

Going Head-to-Head Against the Competition



Patented U-Series

Water flowing from both orifices results in a lower scheduling coefficient. This efficient design conserves water, saves money and reduces waste



Competitor A



Competitor B

Competitor A and B nozzles fail to provide efficient close-in watering which results in a higher scheduling coefficient

U8 Series						
10° Trajectory						
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h	
U-8F 	15	5	0.74	2.07	2.39	
	20	6	0.86	2.01	2.32	
	25	7	0.96	1.62	1.87	
	30	8	1.05	1.58	1.83	
U-8H 	15	5	0.37	2.07	2.39	
	20	6	0.42	2.01	2.32	
	25	7	0.47	1.62	1.87	
	30	8	0.52	1.58	1.83	
U-8T 	15	5	0.25	2.07	2.39	
	20	6	0.29	2.01	2.32	
	25	7	0.32	1.62	1.87	
	30	8	0.35	1.58	1.83	
U-8Q 	15	5	0.18	2.07	2.39	
	20	6	0.21	2.01	2.32	
	25	7	0.24	1.62	1.87	
	30	8	0.26	1.58	1.83	

U8 Series							METRIC
10° Trajectory							
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
U-8F 	1.0	1.7	0.16	2.8	52	60	
	1.5	2.1	0.20	3.4	47	55	
	2.0	2.4	0.23	3.9	41	48	
	2.1	2.4	0.24	4.0	40	46	
U-8H 	1.0	1.7	0.08	1.4	52	60	
	1.5	2.1	0.10	1.7	47	55	
	2.0	2.4	0.12	1.9	41	48	
	2.1	2.4	0.12	2.0	40	46	
U-8T 	1.0	1.7	0.05	0.9	52	60	
	1.5	2.1	0.07	1.1	47	55	
	2.0	2.4	0.08	1.3	41	48	
	2.1	2.4	0.08	1.3	40	46	
U-8Q 	1.0	1.7	0.04	0.7	52	60	
	1.5	2.1	0.05	0.8	47	55	
	2.0	2.4	0.06	1.0	41	48	
	2.1	2.4	0.06	1.0	40	46	

U10 Series						
12° Trajectory						
Nozzle	Pressure psi	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h	
U-10F 	15	7	1.16	2.07	2.39	
	20	8	1.34	2.01	2.32	
	25	9	1.50	1.62	1.87	
	30	10	1.64	1.58	1.83	
U-10H 	15	7	0.58	2.07	2.39	
	20	8	0.67	2.01	2.32	
	25	9	0.75	1.62	1.87	
	30	10	0.82	1.58	1.83	
U-10T 	15	7	0.39	2.07	2.39	
	20	8	0.45	2.01	2.32	
	25	9	0.50	1.62	1.87	
	30	10	0.55	1.58	1.83	
U-10Q 	15	7	0.29	2.07	2.39	
	20	8	0.33	2.01	2.32	
	25	9	0.37	1.62	1.87	
	30	10	0.41	1.58	1.83	

U10 Series							METRIC
12° Trajectory							
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h	
U-10F 	1.0	2.1	0.26	4.4	52	60	
	1.5	2.6	0.30	5.3	47	55	
	2.0	3.0	0.34	6.1	41	48	
	2.1	3.1	0.37	6.2	40	46	
U-10H 	1.0	2.1	0.13	2.2	52	60	
	1.5	2.6	0.15	2.6	47	55	
	2.0	3.0	0.17	3.1	41	48	
	2.1	3.1	0.19	3.1	40	46	
U-10T 	1.0	2.1	0.09	1.5	52	60	
	1.5	2.6	0.10	1.8	47	55	
	2.0	3.0	0.11	2.0	41	48	
	2.1	3.1	0.12	2.1	40	46	
U-10Q 	1.0	2.1	0.07	1.1	52	60	
	1.5	2.6	0.08	1.3	47	55	
	2.0	3.0	0.08	1.5	41	48	
	2.1	3.1	0.09	1.6	40	46	

Note: All U-Series nozzles tested on 4" (10.2 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

Radius refers to recommended product spacing. Actual radii along arc may vary

U12 Series					
<i>23° Trajectory</i>					
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h
	15	9	1.80	2.14	2.47
	20	10	2.10	2.02	2.34
	25	11	2.40	1.91	2.21
	30	12	2.60	1.74	2.01
	15	9	1.35	2.14	2.47
	20	10	1.58	2.02	2.34
	25	11	1.80	1.91	2.21
	30	12	1.95	1.74	2.01
	15	9	1.20	2.14	2.47
	20	10	1.40	2.02	2.34
	25	11	1.60	1.91	2.21
	30	12	1.74	1.74	2.01
	15	9	0.90	2.14	2.47
	20	10	1.05	2.02	2.34
	25	11	1.20	1.91	2.21
	30	12	1.30	1.74	2.01
	15	9	0.60	2.14	2.47
	20	10	0.70	2.02	2.34
	25	11	0.80	1.91	2.21
	30	12	0.87	1.74	2.01
	15	9	0.45	2.14	2.47
	20	10	0.53	2.02	2.34
	25	11	0.60	1.91	2.21
	30	12	0.65	1.74	2.01

U12 Series						METRIC
<i>23° Trajectory</i>						
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
	1.0	2.7	0.40	6.8	55	63
	1.5	3.2	0.48	8.3	47	54
	2.0	3.6	0.59	9.7	46	53
	2.1	3.7	0.60	9.8	44	51
	1.0	2.7	0.30	5.1	55	63
	1.5	3.2	0.36	6.3	47	54
	2.0	3.6	0.45	7.3	46	53
	2.1	3.7	0.45	7.4	44	51
	1.0	2.7	0.26	4.5	55	63
	1.5	3.2	0.32	5.6	47	54
	2.0	3.6	0.40	6.5	46	53
	2.1	3.7	0.40	6.6	44	51
	1.0	2.7	0.20	3.4	55	63
	1.5	3.2	0.24	4.2	47	54
	2.0	3.6	0.30	4.8	46	53
	2.1	3.7	0.30	4.9	44	51
	1.0	2.7	0.13	2.3	55	63
	1.5	3.2	0.16	2.8	47	54
	2.0	3.6	0.20	3.2	46	53
	2.1	3.7	0.20	3.3	44	51
	1.0	2.7	0.10	1.7	55	63
	1.5	3.2	0.12	2.1	47	54
	2.0	3.6	0.15	2.4	46	53
	2.1	3.7	0.15	2.5	44	51

U15 Series					
<i>23° Trajectory</i>					
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip In/h	Precip In/h
	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
	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
	15	11	1.74	2.07	2.39
	20	12	2.01	2.01	2.32
	25	14	2.21	1.62	1.87
	30	15	2.48	1.58	1.83
	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
	15	11	0.87	2.07	2.39
	20	12	1.00	2.01	2.32
	25	14	1.10	1.62	1.87
	30	15	1.23	1.58	1.83
	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

U15 Series						METRIC
<i>23° Trajectory</i>						
Nozzle	Pressure bar	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
	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
	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
	1.0	3.4	0.40	6.6	52	60
	1.5	3.9	0.48	7.9	47	55
	2.0	4.5	0.55	9.2	41	48
	2.1	4.6	0.56	9.4	40	46
	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
	1.0	3.4	0.20	3.3	52	60
	1.5	3.9	0.24	3.9	47	55
	2.0	4.5	0.28	4.6	41	48
	2.1	4.6	0.28	4.7	40	46
	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

Specifications

The nozzle shall have a fixed arc of _____ degrees (_____ circle) and shall be capable of covering a _____ feet radius (FT. RAD.)/(meter) at _____ pounds per square inch (psi)/(Bars) with a discharge rate of _____ gallons per minute, (GPM)/(m³/h, l/s). The angle of trajectory shall be _____ degrees.

The nozzle shall have dual orifices for both in-close watering and standard pattern watering. The lower orifice shall be a labyrinth type orifice to assure correct distribution of water close to the spray head.

The nozzle shall be constructed of UV-resistant plastic. The radius adjustment screw shall be of stainless steel.

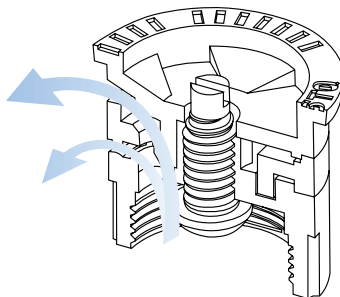
The part-circle nozzle shall accept the blue finer mesh screen and the full-circle nozzle shall accept the 1800 Series filter screen to protect nozzles against clogging and to allow for radius adjustment.

The nozzle shall have a precipitation rate matched with other 1800 Series MPR nozzles.

The nozzle shall be as manufactured by Rain Bird Corporation, Azusa, California.



U-Series nozzles offer better, more uniform water distribution. Water flowing from both orifices combines to form a continuous water stream. Eliminates gaps for more uniform coverage throughout the entire watering area



Rain Bird® U-Series Nozzles produce spray patterns from two orifices to form a continuous water stream. The result is that gaps in coverage are eliminated so the entire watering area is more uniformly covered.

(Based on tests conducted at the Rain Bird Product Research Center. Tests conducted on Rain Bird and principal competitors' part-circle nozzles)

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