Rotary Nozzle

Is it a spray or a rotor?

Rain Bird's Rotary Nozzle is a multi-streamed rotational spray that fits on a Rain Bird spray body or other ½" male threaded spray body. Distribution uniformity, precipitation rate, spacing, and run times are similar to a rotor.

The ideal solution for 13' to 24' (4,0 m to 7,3 m).

With the recent slowdown in new construction, a significant opportunity exists for converting over existing customers to more water efficient rotary nozzles.

Rotary Nozzles require 60% less flow and offer up to 30% water savings

- Color-coded for pattern indication with a flathead screw for radius adjustment
- Labeled for quick pattern recognition
- Black deflector for 13'-18' series
- Yellow deflector for 17'-24' series
- Left-edge indicator

13'-18' Series Rotary Nozzle - Range 13-18ft.

Pressure	Radius	Precip Rate (in/hr)
20	13	0.75
25	14	0.67
30	16	0.61
35	16	0.61
40	17	0.61
45	18	0.61
50	18	0.61
55	18	0.61

17'-24' Series Rotary Nozzle - Range 17-24ft.

Pressure	Radius	Precip Rate (in/hr)
20	17	0.79
25	19	0.71
30	21	0.65
35	22	0.65
40	23	0.65
45	23	0.65
50	24	0.65
55	24	0.65

See how much better Rain Bird Rotary Nozzles are for your landscape and your wallet.

Visit www.rainbird.com/rotarynozzles

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Specification Hotline
800-458-3005 (U.S. and Canada)

Rain Bird Technical Services
(800) RAINBIRD (1-800-724-6247)
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The Intelligent Use of Water™
www.rainbird.com

D39881

Rotary Nozzles

Profitable, Water Efficient Solutions

Better **Spray** | Better **Look** | Better **Price**

Why Rain Bird® Rotary Nozzles vs. the Competition

45% lower list price

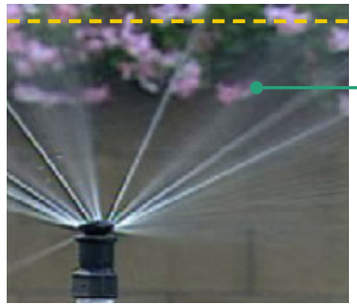
A 45% lower price means you can keep the savings or gain another competitive edge in bidding against other contractors.

Rain Bird Rotary Nozzle List Price	MP Rotator (MP2000) List Price
$5.25	$9.75

Better wind resistance, Bigger water droplets, Less misting

Stronger streams and lower trajectory makes the rotary nozzle ideal for windy conditions, putting down more water where you need it.

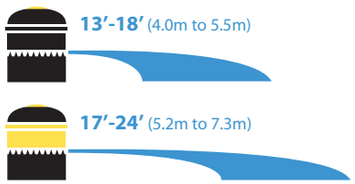
Rain Bird Rotary Nozzles



Leading Competitor

Set it and forget it

Our fixed arc solution will not drift over time and is available in 6 different patterns and 2 different radius ranges offering you the most flexibility in covering any irrigation area.

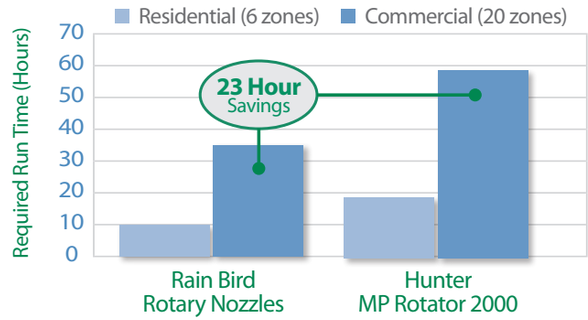


Use with rotors on the same zone

Matched precipitation rate allows you to mix and match our 5000 series rotors along with rotary nozzles, simplifying system installation.

33% less run time than competition

Most states are considering a water conservation policy, which limits the number of days and times you can run your irrigation system. By offering 50% higher precip rate than our leading competitor, Rain Bird rotary nozzles will ensure you get all of your zones irrigated in time.



Assumes average water requirements = .8"/week

Total System Installation = More cost savings and more profit!

Residential System Example (.8" water required per week)	Rain Bird Rotary Nozzle	Hunter MP Rotator 2000
# total zones	6	6
Weekly run time required (hours)	10.55	17.58
Costs (Does not include labor)		
Valves	$135.00	$165.00
Rotating Spray Nozzles	$315.00	$585.00
Spray Bodies	$148.80	$201.00
Controller	$177.00	$209.00
Piping (1000 ft)	$190.00	$190.00
Wiring	$120.00	$120.00
Total Costs (list price)	**$1,085.80**	**$1,470.00**

26% Savings

Better **Spray** | Better **Look** | Better **Price**

R13-18 Series (Black)

Arc	Pressure psi	Radius* ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
R13-18F	20	13	1.31	0.75	0.86
	25	14	1.46	0.67	0.77
	30	16	1.60	0.61	0.70
	35	16	1.73	0.61	0.70
	40	17	1.85	0.61	0.70
	45	18	1.96	0.61	0.70
	50	18	2.07	0.61	0.70
	55	18	2.17	0.61	0.70
R13-18TQ	20	13	0.98	0.75	0.86
	25	14	1.10	0.67	0.77
	30	16	1.20	0.61	0.70
	35	16	1.30	0.61	0.70
	40	17	1.39	0.61	0.70
	45	18	1.47	0.61	0.70
	50	18	1.55	0.61	0.70
	55	18	1.62	0.61	0.70
R13-18TT	20	13	0.87	0.75	0.86
	25	14	0.97	0.67	0.77
	30	16	1.07	0.61	0.70
	35	16	1.15	0.61	0.70
	40	17	1.23	0.61	0.70
	45	18	1.31	0.61	0.70
	50	18	1.38	0.61	0.70
	55	18	1.44	0.61	0.70
R13-18H	20	13	0.65	0.75	0.86
	25	14	0.73	0.67	0.77
	30	16	0.80	0.61	0.70
	35	16	0.86	0.61	0.70
	40	17	0.92	0.61	0.70
	45	18	0.98	0.61	0.70
	50	18	1.03	0.61	0.70
	55	18	1.08	0.61	0.70
R13-18T	20	13	0.44	0.75	0.86
	25	14	0.49	0.67	0.77
	30	16	0.53	0.61	0.70
	35	16	0.58	0.61	0.70
	40	17	0.62	0.61	0.70
	45	18	0.65	0.61	0.70
	50	18	0.69	0.61	0.70
	55	18	0.72	0.61	0.70
R13-18Q	20	13	0.33	0.75	0.86
	25	14	0.37	0.67	0.77
	30	16	0.40	0.61	0.70
	35	16	0.43	0.61	0.70
	40	17	0.46	0.61	0.70
	45	18	0.49	0.61	0.70
	50	18	0.52	0.61	0.70
	55	18	0.54	0.61	0.70

Note: *Rotary Nozzles tested on 4 inch pop-ups.*
Performance data taken in zero wind conditions
**Radius refers to recommended spacing to achieve optimal precipitation rate and distribution uniformity with head to head spacing*
■ *Square spacing based on 50% diameter of throw*
▲ *Triangular spacing based on 50% diameter of throw*

R13-18 Series (Black) METRIC

Arc	Pressure bar	Radius* m	Flow l/m	■ Precip mm/h	▲ Precip mm/h
R13-18F	1.4	4.0	4.95	19	22
	1.7	4.3	5.53	18	21
	2.1	4.8	6.06	15	18
	2.4	5.0	6.54	15	18
	2.8	5.2	6.99	15	18
	3.1	5.4	7.42	15	18
	3.4	5.5	7.82	15	18
	3.8	5.6	8.20	15	18
R13-18TQ	1.4	4.0	3.71	19	22
	1.7	4.3	4.15	18	21
	2.1	4.8	4.54	15	18
	2.4	5.0	4.91	15	18
	2.8	5.2	5.25	15	18
	3.1	5.4	5.56	15	18
	3.4	5.5	5.86	15	18
	3.8	5.6	6.15	15	18
R13-18TT	1.4	4.0	3.30	19	22
	1.7	4.3	3.69	18	21
	2.1	4.8	4.04	15	18
	2.4	5.0	4.36	15	18
	2.8	5.2	4.66	15	18
	3.1	5.4	4.95	15	18
	3.4	5.5	5.21	15	18
	3.8	5.6	5.47	15	18
R13-18H	1.4	4.0	2.47	19	22
	1.7	4.3	2.76	18	21
	2.1	4.8	3.03	15	18
	2.4	5.0	3.27	15	18
	2.8	5.2	3.50	15	18
	3.1	5.4	3.71	15	18
	3.4	5.5	3.91	15	18
	3.8	5.6	4.10	15	18
R13-18T	1.4	4.0	1.65	19	22
	1.7	4.3	1.84	18	21
	2.1	4.8	2.02	15	18
	2.4	5.0	2.18	15	18
	2.8	5.2	2.33	15	18
	3.1	5.4	2.47	15	18
	3.4	5.5	2.61	15	18
	3.8	5.6	2.73	15	18
R13-18Q	1.4	4.0	1.24	19	22
	1.7	4.3	1.38	18	21
	2.1	4.8	1.51	15	18
	2.4	5.0	1.64	15	18
	2.8	5.2	1.75	15	18
	3.1	5.4	1.85	15	18
	3.4	5.5	1.95	15	18
	3.8	5.6	2.05	15	18

Single row applications are not recommended
Do not reduce radius below 13' (4.0 m) on the R13-18 model and below 17' (5.2 m) on the R17-24 model
Installation on Rain Bird 1800®- SAM Spray Bodies recommended in sandy environments
Performance data derived from tests that conform with ASAE Standards; ASAE S398.1. See page 224 for complete ASAE Test Certification Statement.

R17-24 Series (Yellow)

Arc	Pressure psi	Radius* ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
R17-24F	20	17	2.45	0.79	0.92
	25	19	2.74	0.71	0.82
	30	21	3.00	0.65	0.75
	35	22	3.24	0.65	0.75
	40	23	3.46	0.65	0.75
	45	23	3.67	0.65	0.75
	50	24	3.87	0.65	0.75
	55	24	4.06	0.65	0.75
R17-24TQ	20	17	1.84	0.79	0.92
	25	19	2.05	0.71	0.82
	30	21	2.25	0.65	0.75
	35	22	2.43	0.65	0.75
	40	23	2.60	0.65	0.75
	45	23	2.76	0.65	0.75
	50	24	2.90	0.65	0.75
	55	24	3.05	0.65	0.75
R17-24TT	20	17	1.63	0.79	0.92
	25	19	1.83	0.71	0.82
	30	21	2.00	0.65	0.75
	35	22	2.16	0.65	0.75
	40	23	2.31	0.65	0.75
	45	23	2.45	0.65	0.75
	50	24	2.58	0.65	0.75
	55	24	2.71	0.65	0.75
R17-24H	20	17	1.22	0.79	0.92
	25	19	1.37	0.71	0.82
	30	21	1.50	0.65	0.75
	35	22	1.62	0.65	0.75
	40	23	1.73	0.65	0.75
	45	23	1.84	0.65	0.75
	50	24	1.94	0.65	0.75
	55	24	2.03	0.65	0.75
R17-24T	20	17	0.82	0.79	0.92
	25	19	0.91	0.71	0.82
	30	21	1.00	0.65	0.75
	35	22	1.08	0.65	0.75
	40	23	1.15	0.65	0.75
	45	23	1.22	0.65	0.75
	50	24	1.29	0.65	0.75
	55	24	1.35	0.65	0.75
R17-24Q	20	17	0.61	0.79	0.92
	25	19	0.68	0.71	0.82
	30	21	0.75	0.65	0.75
	35	22	0.81	0.65	0.75
	40	23	0.87	0.65	0.75
	45	23	0.92	0.65	0.75
	50	24	0.97	0.65	0.75
	55	24	1.02	0.65	0.75

Note: *Rotary Nozzles tested on 4 inch pop-ups.*
Performance data taken in zero wind conditions
**Radius refers to recommended spacing to achieve optimal precipitation rate and distribution uniformity with head to head spacing*
■ *Square spacing based on 50% diameter of throw*
▲ *Triangular spacing based on 50% diameter of throw*

R17-24 Series (Yellow) METRIC

Arc	Pressure bar	Radius* m	Flow l/m	■ Precip mm/h	▲ Precip mm/h
R17-24F	1.4	5.2	9.27	20	23
	1.7	5.8	10.37	18	21
	2.1	6.4	11.36	16	19
	2.4	6.7	12.26	16	19
	2.8	6.9	13.10	16	19
	3.1	7.1	13.89	16	19
	3.4	7.3	14.65	16	19
	3.8	7.4	15.37	16	19
R17-24TQ	1.4	5.2	6.95	20	23
	1.7	5.8	7.78	18	21
	2.1	6.4	7.57	16	19
	2.4	6.7	8.18	16	19
	2.8	6.9	8.74	16	19
	3.1	7.1	10.43	16	19
	3.4	7.3	11.00	16	19
	3.8	7.4	11.53	16	19
R17-24TT	1.4	5.2	6.18	20	23
	1.7	5.8	6.91	18	21
	2.1	6.4	7.57	16	19
	2.4	6.7	8.18	16	19
	2.8	6.9	8.74	16	19
	3.1	7.1	9.27	16	19
	3.4	7.3	9.77	16	19
	3.8	7.4	10.25	16	19
R17-24H	1.4	5.2	4.62	20	23
	1.7	5.8	5.19	18	21
	2.1	6.4	5.68	16	19
	2.4	6.7	6.17	16	19
	2.8	6.9	6.55	16	19
	3.1	7.1	6.97	16	19
	3.4	7.3	7.34	16	19
	3.8	7.4	7.68	16	19
R17-24T	1.4	5.2	3.09	20	23
	1.7	5.8	3.46	18	21
	2.1	6.4	3.79	16	19
	2.4	6.7	4.09	16	19
	2.8	6.9	4.37	16	19
	3.1	7.1	4.64	16	19
	3.4	7.3	4.89	16	19
	3.8	7.4	5.13	16	19
R17-24Q	1.4	5.2	2.31	20	23
	1.7	5.8	2.57	18	21
	2.1	6.4	2.84	16	19
	2.4	6.7	3.07	16	19
	2.8	6.9	3.29	16	19
	3.1	7.1	3.48	16	19
	3.4	7.3	3.67	16	19
	3.8	7.4	3.86	16	19

Single row applications are not recommended
Do not reduce radius below 13' (4.0 m) on the R13-18 model and below 17' (5.2 m) on the R17-24 model
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Performance data derived from tests that conform with ASAE Standards; ASAE S398.1. See page 224 for complete ASAE Test Certification Statement.