

Irritrol®



The Irritrol® 550R rotor delivers basic simplicity and dependable action all in one rotor. With its proven $\frac{3}{4}$ " gear-driven design, 50' range and a full 5" pop-up, this rotor combines professional quality and outstanding value. Installation is made simple with Irritrol's familiar top arc adjustment and all-in-one full- and part-circle operation from 40 to 360 degrees. And, with the ability to quick check the arc with positive left and right stops, set-up time is further reduced. The 550R comes with a wide selection of nozzles (8 standard and 4 low angle nozzles) making it the ideal rotor for your everyday installations.

550R SERIES

POP-UP ROTOR

FAMILIAR TOP ADJUSTMENT, WET OR DRY

For fast convenient installation

REVERSING FULL- AND PART-CIRCLE OPERATION

Allows you to adjust the rotor from 40° to 360°

NON-FLUSHING WIPER SEAL

Reduces leaks caused by debris trapped under seal

ALL ADJUSTMENTS MADE WITH A STANDARD SCREWDRIVER

No special tools required

STANDARD RUBBER COVER

Provides added protection against debris and keeps playing areas safe

WIDE SELECTION OF NOZZLES

8 standard and 4 low angle nozzles included with each rotor to handle a wide range of applications

POSITIVE LEFT AND RIGHT STOPS (FIXED LEFT STOP)

Reduces set-up time by allowing you to quick check the arc

OPTIONAL CHECK VALVE HOLDS UP TO 7' OF ELEVATION CHANGE

Eliminates water waste

FULL 5" POP-UP

Fits in competitive footprint without extra digging

OPTIONAL STAINLESS STEEL RISER

Helps to deter vandalism and provides longer life

SLIP CLUTCH

Protects against tampering and vandalism



$\frac{3}{4}$ " GEAR-DRIVEN ROTOR

IRRITROL.COM

OPERATING SPECIFICATIONS

- Inlet: 3/4" female-threaded NPT
- Adjustable arc range: 40° to 360°
- Flow range: .74 – 9.70 gpm
- Recommended operating pressure: 45 psi
- Precipitation rate: .20 – .99 inches per hour
- Overall height (retracted): 7 3/8"
- Radius: 25' – 50'
- Pressure range: 25 to 65 psi
- Standard nozzle trajectory: 25°
- Low angle nozzle trajectory: 12°
- 8 standard and 4 low angle nozzles included
(unit comes with 3.0 nozzle pre-installed)
- Riser height: 5"
- Five-year warranty

AVAILABLE 550R MODELS

Model	Description
550R	3/4" inlet, 5" lawn pop-up
550RS	3/4" inlet, shrub
550RHP	3/4" inlet, 12" high-pop
550R-CV	3/4" inlet, 5" lawn pop-up w/check valve
550R-NP	3/4" inlet, 5" lawn pop-up w/non-potable cover
550R-SC	3/4" inlet, 5" lawn pop-up w/slip clutch
550R-NP-SC	3/4" inlet, 5" lawn pop-up w/non-potable cover, and slip clutch
550R-SS-SC	3/4" inlet, 5" lawn pop-up w/sst riser and slip clutch
550R-SS-NP-SC	3/4" inlet, 5" lawn pop-up w/sst riser, non potable cover and slip clutch

OPTIONAL ACCESSORIES

- Recycled-water indicator cover (purple)
- Field-installable check valve (118-3209)

SPECIFYING INFORMATION

550-XXX - XX-XX-XX

MODEL	POP-UP TYPE	OPTIONS
550 - 3/4" rotor	R - lawn pop-up RS - shrub RHP - high-pop	CV - Check Valve NP - Non-Potable SS - Stainless Steel Riser SC - Slip Clutch

Example: 550R rotor, 3/4" female threaded, with stainless steel riser, non-potable cover, and slip clutch = **550R-SS-NP-SC**



PERFORMANCE DATA

550R Rotor - Standard Nozzle

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h ■	Precip. in/h ▲
1.5	25	33	1.15	0.20	0.23
	35	34	1.38	0.23	0.27
	45	35	1.59	0.25	0.29
	55	35	1.74	0.27	0.32
	65	36	1.88	0.28	0.32
2.0	25	35	1.45	0.23	0.26
	35	36	1.80	0.27	0.31
	45	37	2.12	0.30	0.34
	55	37	2.30	0.32	0.37
	65	37	2.58	0.36	0.42
2.5	25	35	1.75	0.28	0.32
	35	36	2.20	0.33	0.38
	45	37	2.55	0.36	0.41
	55	37	2.80	0.39	0.45
	65	37	3.05	0.43	0.50
3.0	25	36	2.20	0.33	0.38
	35	38	2.60	0.35	0.40
	45	40	3.05	0.37	0.42
	55	40	3.52	0.42	0.49
	65	40	3.80	0.46	0.53
4.0	25	37	2.95	0.41	0.48
	35	40	3.55	0.43	0.49
	45	42	4.10	0.45	0.52
	55	42	4.45	0.49	0.56
	65	43	4.85	0.50	0.58
5.0	25	39	3.75	0.47	0.55
	35	41	4.50	0.52	0.60
	45	43	5.10	0.53	0.61
	55	45	5.75	0.55	0.63
	65	45	6.10	0.58	0.67
6.0	25	39	4.20	0.53	0.61
	35	43	5.20	0.55	0.63
	45	46	6.05	0.60	0.69
	55	47	6.65	0.58	0.67
	65	48	7.25	0.61	0.70
8.0	25	36	5.75	0.85	0.99
	35	43	7.10	0.74	0.85
	45	47	8.05	0.70	0.81
	55	48	8.95	0.75	0.86
	65	50	9.70	0.75	0.86

550R Rotor - Low Angle Nozzle

Nozzle	Pressure psi	Radius ft.	Flow GPM	Precip. in/h ■	Precip. in/h ▲
1.0 LA	25	25	0.74	0.23	0.26
	35	28	0.94	0.23	0.27
	45	28	1.02	0.23	0.27
	55	29	1.14	0.26	0.30
	65	29	1.25	0.29	0.33
1.5 LA	25	27	1.10	0.29	0.34
	35	30	1.35	0.29	0.33
	45	31	1.52	0.30	0.35
	55	31	1.75	0.35	0.40
	65	31	1.90	0.38	0.44
2.0 LA	25	29	1.40	0.32	0.37
	35	31	1.72	0.34	0.40
	45	32	2.05	0.39	0.45
	55	33	2.25	0.40	0.46
	65	33	2.45	0.43	0.50
3.0 LA	25	29	2.20	0.50	0.58
	35	33	2.60	0.46	0.53
	45	34	3.05	0.51	0.59
	55	36	3.40	0.51	0.58
	65	36	3.70	0.55	0.63

1. Precipitation rates based on half-circle operation
 2. ■ square spacing based on 50% diameter of throw
 3. ▲ triangular spacing based on 50% diameter of throw
- Note: Data collected in zero wind conditions

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