

GEAR DRIVE

CR500

ROTOR



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Irritrol Systems' new CR500 mid-range, gear rotor offers a wide variety of state-of-the-art features designed to provide reliable full and part-circle operation in one unit. Ideal for light commercial and residential use, contractors will appreciate the rotor's ease of installation and service.

Convenience-enhancing features include an easy-to-see arc indicator for simple adjustment from 40° to 360°, a 5-inch pop-up height, automatic arc return if nozzle turret is tampered with, and a pre-installed check valve to eliminate low-head drainage.

The CR500 rotor was designed with durability in mind. A heavy-duty retract spring, pressure-activated seal and sturdy trip mechanism all ensure long-term, reliable operation.

The CR500 rotor— designed to meet the specific needs of the contractor.

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Features

- 5" pop-up to nozzle
- Top arc indicator for simple adjustment
- Nine interchangeable, reusable standard nozzles: one pre-installed and eight on a nozzle tree
- Automatic arc return to pre-set arc if nozzle turret is tampered with
- Part- and full-circle coverage in one head
- Continuous rotation provides even coverage when set at 360°
- Pre-installed check valve eliminates low-head drainage
- Riser pull-up slot for easy nozzle removal and insertion
- Arc adjustment from 40° to 360°
- Standard rubber cover
- Stainless steel radius adjustment screw allows up to 25% radius reduction
- Heavy-duty retract spring
- Pressure-activated seal
- Robust trip mechanism
- Three-year warranty

Specifications

- Recommended operating pressure: 30-70 psi
- Radius: 32'-50'
- Optimum operating pressure: 50 psi
- Flow rate: 0.5-10 GPM
- Nozzle trajectory: 26°
- Precipitation range: matched precipitation rates from .3"- .5" per hour at 60 psi

Dimensions

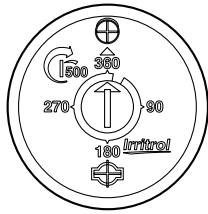
- Cap diameter: 2.9"
- Height: 7.6"
- Pop-up: 5"
- $\frac{3}{4}$ " threaded NPT inlet
- Check valve maintains up to 8' in elevation change



Nozzle tree

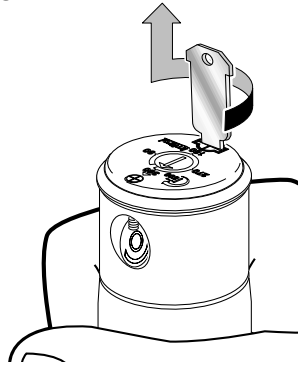


Fingertip Adjustments



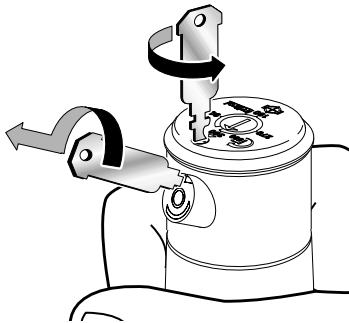
Contractor-friendly Rotor

Key features include an easy-to-see arc adjustment dial, pull-up keyhole and radius adjustment/nozzle retention screw.



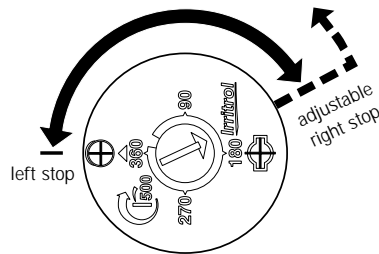
Pulling Up the Riser

Multiple-purpose key and riser pull-up make it fast and easy to adjust and service all CR500 nozzles.



Changing a Nozzle

Each of the CR500 rotor's nine interchangeable nozzles can be removed in seconds.



Adjusting the Arc

Arc setting can be quickly adjusted from the top of the riser.



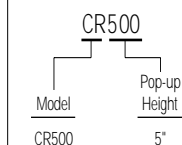
CR500

R O T O R

Pressure psi	Nozzle Number	Radius ft.	Flow GPM	Pressure psi	Nozzle Number	Radius ft.	Flow GPM
30	0.50	28	0.5	50	0.50	29	0.7
	0.75	29	0.7		0.75	31	0.9
	1	32	1.3		1	34	1.6
	2	37	2.4		2	42	3.0
	2.5	38	2.5		2.5	40	3.2
	3	38	3.6		3	41	4.6
	4	43	4.4		4	46	5.6
	6	45	5.9		6	48	6.3
40	8	42	8.0		8	49	9.5
	0.50	29	0.6	60	0.50	30	0.8
	0.75	30	0.8		0.75	32	1.0
	1	33	1.5		1	35	1.8
	2	40	2.5		2	43	3.3
	2.5	39	2.8		2.5	41	3.5
	3	39	4.2		3	42	5.0
	4	44	5.1		4	49	5.9
	6	46	6.0		6	49	6.7
	8	45	8.5		8	50	10.0

Data represents test results in zero wind. Adjust for local conditions. Radius may be reduced with radius adjustment screw.

MODELS HOW TO SPECIFY



Irritrol
SYSTEMS

BEYOND THE EXPECTED

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