RAIN BIRD®

TECH SPECS

115-E Rotor

Maximum Throw for Unparalleled Performance

The 115-E rotor combines the longest radius on the market with excellent distribution uniformity and reliability. For sports fields, parks and other large turf or artificial turf applications requiring maximum spacing, the 115-E offers unparalleled performance and value.

Features

- 115' (35,1m) throw at 120 psi (8,3 bars) inlet pressure
- Pressure regulated case
- Electric Valve-in-Head
- Standard rubber cover for added safety on playing surfaces
- Color-coded Rain Curtain™ nozzles
- Maximum inlet pressure of 175 psi (12,1 bars) ensures long life at high pressure
- The 115-E part-circle model offers 360° reversing, full-circle operation. Non-reversing full-circle model also available
- Settable stator allows for adjustable rotation time for syringe speeds or maximum radius settings
- Diffuser screw allows radius reduction up to 10 percent without changing nozzles
- True closed-case design with self-flushing action prevents internal from sticking up
- Water-lubricated, heavy-duty, and replaceable gear drive offers reliable, durable rotation in an environmentally friendly design
- Easy arc adjustment from the top requires no special tools for fast modifications.
- Five-year trade warranty

Operating Range

- Radius: 85 - 115 feet (25,9 to 35,1 m)
- Factory Pressure Settings: 80 psi, 100 psi, 120 psi (Fully Open)
- Flow Rate: 40.6 - 72.9 GPM (2,6 - 4,6 l/s) (9,22 - 16,56 m^3/h)
- Adjustable Rotation Time Range: 360° in 1.5 to 4 minutes, preset to 4 minutes
- Maximum Stream Height: 24 feet (7,3 m)

Specifications

- 1.5" inlet (3,8 cm) (15/21) female NPT or BSP
- Nozzle outlet trajectory: 25°
- Case Type: Heavy duty, reinforced polypropylene w/ snap cover accessibility and Top-Serviceable Rock Screen™

Dimensions

- Body Height: 13.4" (34,0 cm)
- Top Diameter: 8.25" (21,0 cm)
- Pop-up Height: 3.25" (8,3 cm)

Models and Options

- Available in part-circle and full-circle models
- Universal hose adapter (P/N D05205 model UHA)
- Optional artificial grass cover (P/N B99500 model KITGRCOV)
- Optional artificial grass cover without artificial grass for custom artificial grass installation (P/N B99600 model KITGRCVNG)

Tools

- Snap Ring Pliers (P/N D02203 model SRP)
- Selector Valve Key (P/N B41720 model EGLSVK)
- Valve Insertion Tool (P/N B41700 model VTDR)
- Installation Socket (P/N D02237 model ISTSRS)

How to Specify

115-E - XX - XX - XXX - XXX

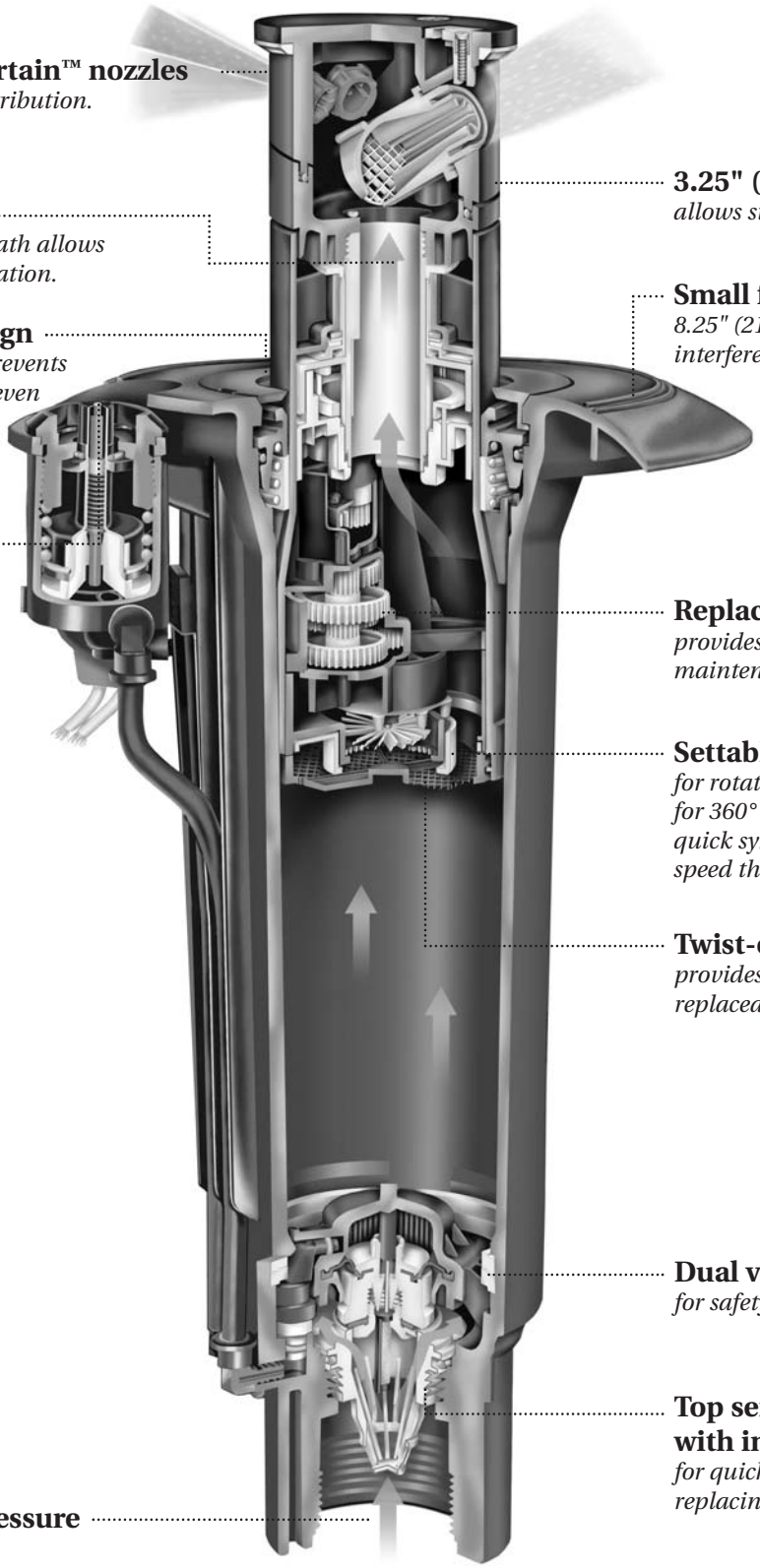
Model	Nozzle	Pressure Regulator	Thread Type
PC	48	80 (5,5)	NPT
FC	57	100 (6,9)	BSP
	63	120 (8,27) Fully Open	
	66		

Color-coded Rain Curtain™ nozzles
provide superior water distribution.

New rotor design
with straight-throw flow path allows for extremely efficient operation.

True closed-case design
with self-flushing action prevents internal from sticking up, even if buried in sand or after heavy top-dressing applications.

Pressure settings
available at 80, 100 and Fully Open at 120 psi (5,5, 6,9 and 8,3 bars)



3.25" (8,3 cm) pop-up height
allows stream to clear tall grass

Small footprint
8.25" (21,0 cm) case diameter ensures less interference on playing fields

Replaceable, heavy-duty motor
provides lower long-term maintenance costs.

Settable stator
for rotation speeds down to 1.5 minutes for 360° rotation provides flexibility, quick syringes, and a consistent rotation speed throughout the rotor's life.

Twist-off screen
provides easy access to stator and replaceable motor without any tools.

Dual valve retension snap ring
for safety

Top serviceable rock screen with integral valve seat
for quick replacement without replacing the rotor case

Maximum inlet pressure
175 psi (12,1 bars)

115-E Rotor

115-E FC Performance Data - U.S.

Dual Spreader™ Nozzles ■ ▲

Inlet Pressure (psi)	Nozzle	Radius (ft.)	Flow (GPM)	Precip (In/h)	Precip (In/h)
70	48 Blue	85	40.60	0.54	0.62
	57 Yellow	88	46.90	0.58	0.67
	63 Orange	94	51.10	0.56	0.64
	66 Green	-	-	-	-
80	48 Blue	89	43.70	0.53	0.61
	57 Yellow	91	50.30	0.58	0.68
	63 Orange	99	56.30	0.55	0.64
	66 Green	101	59.00	0.56	0.64
90	48 Blue	91	46.50	0.54	0.62
	57 Yellow	93	53.70	0.60	0.69
	63 Orange	101	58.40	0.55	0.64
	66 Green	104	62.90	0.56	0.65
100	48 Blue	95	48.30	0.52	0.59
	57 Yellow	94	56.90	0.62	0.72
	63 Orange	105	62.90	0.55	0.63
	66 Green	109	66.40	0.54	0.62
110	48 Blue	96	50.80	0.53	0.61
	57 Yellow	96	60.00	0.63	0.72
	63 Orange	107	64.80	0.54	0.63
	66 Green	111	69.90	0.55	0.63
120 (Fully Open)	48 Blue	97	53.10	0.54	0.63
	57 Yellow	97	62.70	0.64	0.74
	63 Orange	109	69.30	0.56	0.65
	66 Green	115	72.90	0.53	0.61

115-E PC Performance Data - U.S.

Dual Spreader™ Nozzles ■ ▲

Inlet Pressure (psi)	Nozzle	Radius (ft.)	Flow (GPM)	Precip (In/h)	Precip (In/h)
70	48 Blue	85	32.10	0.43	0.49
	57 Yellow	87	39.30	0.50	0.58
	63 Orange	-	-	-	-
	66 Green	-	-	-	-
80	48 Blue	91	35.70	0.41	0.48
	57 Yellow	93	43.00	0.48	0.55
	63 Orange	100	48.60	0.47	0.54
	66 Green	97	52.50	0.54	0.62
90	48 Blue	92	37.60	0.43	0.49
	57 Yellow	94	46.20	0.50	0.58
	63 Orange	103	51.10	0.46	0.54
	66 Green	101	57.10	0.54	0.62
100	48 Blue	96	39.30	0.41	0.47
	57 Yellow	98	48.70	0.49	0.56
	63 Orange	107	54.50	0.46	0.53
	66 Green	107	59.40	0.50	0.58
110	48 Blue	97	42.00	0.43	0.50
	57 Yellow	101	52.00	0.49	0.57
	63 Orange	109	58.20	0.47	0.54
	66 Green	108	64.20	0.53	0.61
120 (Fully Open)	48 Blue	99	43.80	0.43	0.50
	57 Yellow	105	53.60	0.47	0.54
	63 Orange	110	61.90	0.49	0.57
	66 Green	114	65.30	0.48	0.56

115-E FC Performance Data - METRIC

Dual Spreader™ Nozzles ■ ▲

Inlet Pressure (bar)	Nozzle	Radius (m)	Flow (m^3/h)	Flow (l/s)	Precip (mm/h)	Precip (mm/h)
4,83	48 Blue	25,9	9,22	2,56	14	16
	57 Yellow	26,8	10,65	2,96	15	17
	63 Orange	28,7	11,61	3,22	14	16
	66 Green	-	-	-	-	-
5,0	48 Blue	26,2	9,40	2,61	14	16
	57 Yellow	27,1	10,85	3,01	15	17
	63 Orange	29,0	11,90	3,31	14	16
	66 Green	-	-	-	-	-
5,5	48 Blue	27,1	9,91	2,75	13	16
	57 Yellow	27,7	11,41	3,17	15	17
	63 Orange	30,1	12,76	3,54	14	16
	66 Green	30,7	13,38	3,72	14	16
6,0	48 Blue	27,6	10,37	2,88	14	16
	57 Yellow	28,2	11,97	3,32	15	17
	63 Orange	30,6	13,12	3,65	14	16
	66 Green	31,4	14,02	3,90	14	16
6,5	48 Blue	28,3	10,74	2,98	13	16
	57 Yellow	28,5	12,51	3,47	15	18
	63 Orange	31,3	13,70	3,81	14	16
	66 Green	32,4	14,63	4,06	14	16
7,0	48 Blue	29,0	11,06	3,07	13	15
	57 Yellow	28,7	13,03	3,62	16	18
	63 Orange	32,1	14,35	3,99	14	16
	66 Green	33,3	15,20	4,22	14	16
7,5	48 Blue	29,2	11,47	3,19	13	16
	57 Yellow	29,2	13,54	3,76	16	18
	63 Orange	32,5	14,66	4,07	14	16
	66 Green	33,8	15,78	4,38	14	16
8,0	48 Blue	29,4	11,85	3,29	14	16
	57 Yellow	29,4	14,00	3,89	16	19
	63 Orange	33,0	15,33	4,26	14	16
	66 Green	34,6	16,29	4,52	14	16
8,27 (Fully Open)	48 Blue	29,6	12,06	3,35	14	16
	57 Yellow	29,6	14,24	3,96	16	19
	63 Orange	33,2	15,74	4,37	14	16
	66 Green	35,1	16,56	4,60	13	16

115-E PC Performance Data - METRIC

Dual Spreader™ Nozzles ■ ▲

Inlet Pressure (bar)	Nozzle	Radius (m)	Flow (m^3/h)	Flow (l/s)	Precip (mm/h)	Precip (mm/h)
4,83	48 Blue	25,9	7,30	2,02	11	13
	57 Yellow	26,5	8,90	2,48	13	15
	63 Orange	-	-	-	-	-
	66 Green	-	-	-	-	-
5,0	48 Blue	26,4	7,50	2,08	11	12
	57 Yellow	27,0	9,10	2,54	13	14
	63 Orange	-	-	-	-	-
	66 Green	-	-	-	-	-
5,5	48 Blue	27,7	8,10	2,25	11	12
	57 Yellow	28,3	9,80	2,71	12	14
	63 Orange	30,5	11,00	3,07	12	14
	66 Green	29,6	11,90	3,31	14	16
6,0	48 Blue	28,0	8,40	2,34	11	12
	57 Yellow	28,6	10,30	2,85	13	15
	63 Orange	31,1	11,40	3,18	12	14
	66 Green	30,4	12,70	3,52	14	16
6,5	48 Blue	28,6	8,70	2,42	11	12
	57 Yellow	29,2	10,70	2,98	13	15
	63 Orange	31,9	11,90	3,32	12	14
	66 Green	31,6	13,20	3,66	13	15
7,0	48 Blue	29,3	9,00	2,51	11	12
	57 Yellow	30,0	11,20	3,10	12	14
	63 Orange	32,7	12,50	3,47	12	13
	66 Green	32,7	13,70	3,79	13	15
7,5	48 Blue	29,5	9,50	2,63	11	13
	57 Yellow	30,7	11,70	3,25	12	14
	63 Orange	33,1	13,10	3,64	12	14
	66 Green	32,9	14,40	4,01	13	15
8,0	48 Blue	29,9	9,80	2,72	11	13
	57 Yellow	31,5	12,00	3,34	12	14
	63 Orange	33,4	13,70	3,81	12	14
	66 Green	34,0	14,70	4,09	13	15
8,27 (Fully Open)	48 Blue	30,2	9,90	2,76	11	13
	57 Yellow	32,0	12,20	3,38	12	14
	63 Orange	33,5	14,10	3,90	13	14
	66 Green	34,7	14,80	4,12	12	14

Specifications

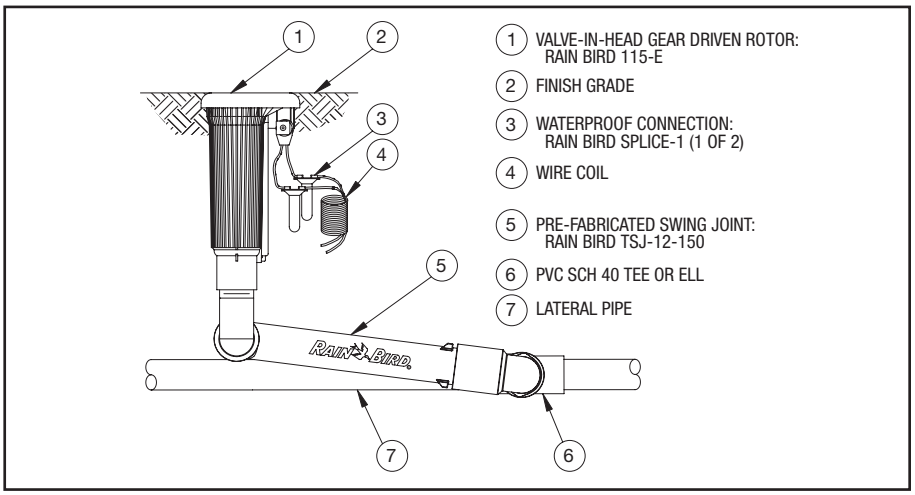
The full- or part-circle sprinkler shall be a water-lubricated gear drive rotor capable of covering a ____ (units) radius at a base pressure of ____ (units) and a discharge rate of ____ (units). The rotor shall be installed with a number ____ nozzle that shall be ____ in color for ease of identification.

The part-circle sprinkler shall have adjustable arc coverage of 360°. Arc adjustment can be performed with or without the rotor in operation and shall require only a flat-blade screwdriver. The part-circle rotor shall rotate through a 180° arc in 2¼ minutes or less. Rotation through 360° shall be 4 minutes or less for the full-circle sprinkler.

The sprinkler shall be fully serviceable from the top. The internal assembly shall be retained in the case by a plastic snap ring. The Rock Screen and Valve Seat shall be serviceable from the top. The rotor shall have a bearing guide that allows water to flush around the riser stem as it pops up and seals against the riser when it is fully raised. The pop-up height shall be 3.25" (8,26 cm). The retract spring shall be of stainless steel and of sufficient force for positive pop-down.

The nozzle housing cover of the rotor shall indicate the model, and have an arrow to indicate the position of the nozzle, and shall provide a positive seal against debris when the rotor is not in operation. The housing shall be installed with an interchangeable color coded nozzle.

The rotor body shall be molded of engineering-grade plastic and shall have a double-wall construction female (NPT or BSP) bottom inlet.



The rotor case shall have a top diameter of 8.25" (21,0 cm) and an overall height of 13.4" (34,0 cm). The case shall have a 1.5" (3,8 cm) NPT or BSP threaded inlet.

The rotor shall have a 3-piece rubber cover which covers all exposed surfaces, including the outer flange, snap-ring and top of the internal assembly.

The sprinkler shall be as manufactured by Rain Bird Corporation, Glendora, California, U.S.A.

Standard Model—Electric Valve in Head. The sprinkler shall have a 24 VAC 60 cycle solenoid actuated normally closed control valve in the base of the case. The rotor shall have a pressure regulator which is adjustable from the top using a small flat-blade screwdriver. The rotor shall have a top-serviceable selector that allows the unit to be operated manually, in automatic mode or shut off entirely.

Optional Feature—Artificial Grass Cover. The sprinkler shall accommodate an artificial grass cover which covers all exposed surfaces.

Optional Feature—Artificial Grass Cover without Grass.
The sprinkler shall accommodate an artificial grass cover without artificial grass for custom artificial grass installation which covers all exposed surfaces.

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