

# Specifications

## Models:

### Full-Circle:

- EAGLE 700E:** Electric
- EAGLE 700H:** Hydraulic (N.O.)\*
- EAGLE 700S:** Stopmatic (SAM)
- EAGLE 700B:** SEAL-A-MATIC™ device
- EAGLE 700BRC:** SEAL-A-MATIC device, rubber cover

### Part-Circle::

- EAGLE 750E:** Electric
- EAGLE 750H:** Hydraulic (N.O.)\*
- EAGLE 750S:** Stopmatic (SAM)
- EAGLE 750B:** SEAL-A-MATIC device
- EAGLE 750BRC:** SEAL-A-MATIC device, rubber cover

## Arc:

- EAGLE 700:** Full-circle, 360°
- EAGLE 750:** Adjustable, 30° to 345°

## Rotation Time:

- EAGLE 700:** 360° in ≤ 240 seconds
- EAGLE 750:** 180° in ≤ 120 seconds

## Operating Pressure:

- 50 to 100 psi (3,5 to 6,9 bars)

## Factory Pressure Settings:

- 700E/750E available in 60, 70 and 80 psi (4,1, 4,8 and 5,5 bars)

## Inlet Threads:

- Models 700E/750E, 700H/750H, 700S/750S:** 1.25" (3,2 cm) (33/42) NPT, BSP or ACME
- Models 700B/750B, 700BRC/750BRC:** 1" (2,5 cm) (26/34) NPT, BSP or ACME

## Holdback:

- 700B/750B:** 10' (3,1 m) of elevation
- 700S/750S:** 15' (4,6 m) of elevation

## Nozzle Trajectory: 25°

## Maximum Stream Height: 17' (5,2 m)

## Dimensions:

### Body Height:

- Models 700E/750E, 700H/750H, 700S/750S:** 12.0" (30,5 cm)
- Models 700B/750B:** 9.6" (24,5 cm)
- Models 700BRC/750BRC:** 10" (25,4 cm)

### Top Diameter:

- Models 700E/750E, 700H/750H, 700S/750S:** 6.25" (15,9 cm)
- Models 700B/750B:** 4.25" (10,8 cm)
- Models 700BRC/750BRC:** 4.75" (12,1 cm)

## Pop-Up Height to Nozzle:

- Models 700E/750E, 700S/750S, 700H/750H, 700B/750B:** 3.25" (8,3 cm)
- Models 700BRC/750BRC:** 2.88" (7,3 cm)

## Solenoid:

- 24 VAC 50/60 cycle solenoid power requirement —.41 amp in rush current (9.9 VA), .23 amp holding current (5.5 VA)

## Top-Serviceable Rock Screen™ and Replaceable Valve Seat:

- Models 700/750 E, H and S.

All data are generated from tests conducted in accordance with ASAE Standard S398.1 for at least 30 minutes in zero-wind conditions.

\* N.O.—Normally open

## EAGLE™ 700 Performance Data – U.S.

### PERFORMANCE NOZZLES (Dual Spreader™)

Base Pressure (psi)	#28 WHITE		#32 BLUE		#36 YELLOW		#40 ORANGE		#44 GREEN		#48 BLACK	
	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)
50	55	16.8	58	19.6	60	22.7	64	25.1	—	—	—	—
60	56	18.7	62	21.9	62	24.9	66	27.3	68	29.6	—	—
70	56	19.5	63	22.6	64	26.4	66	28.6	68	31.6	70	36.0
80	59	20.9	64	24.9	66	28.3	68	30.8	68	33.9	72	38.7
90	60	23.2	64	27.2	66	31.0	68	33.9	74	36.8	78	41.6
100	60	24.5	66	28.5	68	32.7	70	35.8	76	38.8	80	44.1

Data reflect no pressure regulation.

## EAGLE™ 750 Performance Data – U.S.

### DISTANCE NOZZLES (Cascade)

Base Pressure (psi)	#14 WHITE		#16 BLUE		#18 YELLOW		#20 ORANGE		#22 GREEN		#24 BLACK	
	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)	Radius (ft)	Flow (gpm)
50	56	11.0	60	13.6	62	16.7	64	20.6	—	—	—	—
60	56	12.0	64	15.0	64	18.6	68	22.6	68	26.1	—	—
70	58	13.0	66	16.3	66	20.2	70	24.6	72	28.6	78	32.8
80	60	14.0	66	17.4	66	21.0	72	26.4	74	30.7	80	35.3
90	62	14.8	68	18.5	68	23.0	74	28.1	74	32.6	82	37.5
100	64	15.7	68	19.5	70	24.2	74	29.6	76	34.5	82	39.6

Data reflect no pressure regulation.

## EAGLE™ 700 Performance Data – Metric

### PERFORMANCE NOZZLES (Dual Spreader™)

Base Pressure (bars)	#28 WHITE			#32 BLUE			#36 YELLOW			#40 ORANGE			#44 GREEN			#48 BLACK		
	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)
3.5	16.8	1.06	3.82	17.7	1.24	4.45	18.3	1.43	5.16	19.5	1.58	5.70	—	—	—	—	—	—
4.0	17.0	1.16	4.16	18.7	1.35	4.87	18.8	1.54	5.56	20.0	1.69	6.10	20.5	1.84	6.61	—	—	—
4.5	17.1	1.21	4.34	19.1	1.40	5.06	19.2	1.62	5.83	20.1	1.77	6.36	20.7	1.93	6.96	20.8	2.20	7.91
5.0	17.3	1.25	4.51	19.3	1.46	5.26	19.7	1.70	6.10	20.3	1.84	6.62	20.7	2.03	7.31	21.5	2.31	8.33
5.5	18.0	1.32	4.74	19.5	1.57	5.64	20.1	1.78	6.42	20.7	1.94	6.98	20.7	2.14	7.69	21.9	2.44	8.78
6.0	18.2	1.42	5.11	19.5	1.67	6.02	20.1	1.91	6.86	20.7	2.08	7.49	22.0	2.27	8.16	23.2	2.57	9.25
6.5	18.3	1.50	5.40	19.8	1.75	6.30	20.4	2.00	7.21	21.0	2.19	7.88	22.8	2.38	8.55	24.0	2.69	9.69
6.9	18.3	1.55	5.56	20.1	1.80	6.47	20.7	2.06	7.43	21.3	2.26	8.13	23.2	2.45	8.81	24.4	2.78	10.02

Data reflect no pressure regulation.

## EAGLE™ 750 Performance Data – Metric

### DISTANCE NOZZLES (Cascade)

Base Pressure (bars)	#14 WHITE			#16 BLUE			#18 YELLOW			#20 ORANGE			#22 GREEN			#24 BLACK		
	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)	Radius (m)	Flow (l/s)	Flow (m³/h)
3.5	17.1	0.69	2.50	18.3	0.86	3.09	18.9	1.05	3.79	19.5	1.30	4.68	—	—	—	—	—	—
4.0	17.1	0.74	2.68	19.3	0.93	3.34	19.4	1.15	4.14	20.5	1.40	5.04	20.5	1.62	5.83	—	—	—
4.5	17.4	0.79	2.85	19.8	0.99	3.56	19.8	1.23	4.42	21.0	1.49	5.37	21.4	1.73	6.23	23.5	2.00	7.19
5.0	17.8	0.84	3.01	20.1	1.05	3.77	20.1	1.29	4.63	21.5	1.58	5.69	22.1	1.84	6.62	23.9	2.11	7.59
5.5	18.3	0.88	3.17	20.1	1.10	3.95	20.1	1.32	4.77	21.9	1.66	5.99	22.5	1.93	6.96	24.4	2.22	8.00
6.0	18.7	0.92	3.31	20.5	1.15	4.13	20.5	1.41	5.09	22.4	1.74	6.27	22.6	2.02	7.28	24.8	2.32	8.37
6.5	19.2	0.96	3.45	20.7	1.19	4.30	21.0	1.48	5.34	22.6	1.81	6.53	22.8	2.11	7.59	25.0	2.42	8.72
6.9	19.5	0.99	3.57	20.7	1.23	4.43	21.3	1.53	5.50	22.6	1.87	6.72	23.2	2.18	7.84	25.0	2.50	8.99

Data reflect no pressure regulation.