

8005 Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
50	● 04	39	3.8	0.48	0.56
	● 06	45	5.6	0.53	0.62
	● 08	49	6.6	0.53	0.61
	● 10	53	9.3	0.64	0.74
	● 12	57	11.1	0.66	0.76
	● 14	59	12.6	0.70	0.81
	● 16	61	14.3	0.74	0.85
	● 18	63	16.1	0.78	0.90
	● 20	65	18.6	0.85	0.98
	● 22	65	20.7	0.94	1.09
	● 24	63	22.3	1.08	1.25
	○ 26	65	24.3	1.11	1.28
60	● 04	39	3.8	0.48	0.56
	● 06	45	6.1	0.58	0.67
	● 08	49	8.4	0.67	0.78
	● 10	53	10.1	0.69	0.80
	● 12	59	12.0	0.66	0.77
	● 14	61	14.3	0.74	0.85
	● 16	65	15.9	0.72	0.84
	● 18	65	17.8	0.81	0.94
	● 20	67	20.1	0.86	1.00
	● 22	71	23.2	0.89	1.02
	● 24	69	24.7	1.00	1.15
	○ 26	73	26.7	0.96	1.11
70	● 04	39	4.7	0.60	0.69
	● 06	45	6.7	0.64	0.74
	● 08	49	9.0	0.72	0.83
	● 10	55	11.1	0.71	0.82
	● 12	59	13.2	0.73	0.84
	● 14	63	15.3	0.74	0.86
	● 16	67	17.2	0.74	0.85
	● 18	67	19.3	0.83	0.96
	● 20	71	22.0	0.84	0.97
	● 22	73	25.2	0.91	1.05
	● 24	75	27.0	0.92	1.07
	○ 26	75	29.4	1.01	1.16
80	● 04	39	5.0	0.63	0.73
	● 06	45	7.1	0.68	0.78
	● 08	49	9.8	0.79	0.91
	● 10	55	11.8	0.75	0.87
	● 12	61	14.2	0.73	0.85
	● 14	63	16.4	0.80	0.92
	● 16	67	18.6	0.80	0.92
	● 18	69	20.9	0.85	0.98
	● 20	71	23.9	0.91	1.05
	● 22	75	27.3	0.93	1.08
	● 24	77	29.2	0.95	1.10
	○ 26	79	31.5	0.97	1.12

Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
90	● 12	61	14.7	0.76	0.88
	● 14	65	17.9	0.82	0.94
	● 16	69	20.0	0.81	0.93
	● 18	71	22.2	0.85	0.98
	● 20	73	25.3	0.91	1.06
	● 22	75	29.1	1.00	1.15
	● 24	79	31.0	0.96	1.10
	○ 26	79	33.7	1.04	1.20
100	● 20	75	26.8	0.85	0.97
	● 22	77	30.7	1.00	1.15
	● 24	79	32.8	1.01	1.17
	○ 26	81	36.3	1.07	1.23

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1.

See page 224 for complete ASAE Test Certification Statement.



8005 Cutaway

8005 Nozzle Performance					METRIC	
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
3.5	● 4	11.9	0.86	14.38	12	14
	● 6	13.7	1.28	21.34	14	16
	● 8	14.9	1.59	25.50	14	16
	● 10	16.1	2.10	35.43	16	19
	● 12	17.5	2.52	42.27	16	19
	● 14	18.0	2.89	48.18	18	21
	● 16	18.7	3.28	54.59	19	22
	● 18	19.2	3.69	61.43	20	23
	● 20	19.9	4.25	70.83	21	25
	● 22	20.0	5.08	79.07	25	29
	● 24	19.3	5.11	85.10	27	32
	○ 26	20.0	5.57	92.67	28	32
4.0	● 4	11.9	0.93	14.38	13	15
	● 6	13.7	1.37	22.71	15	17
	● 8	14.9	1.75	30.44	16	18
	● 10	16.3	2.30	37.63	17	20
	● 12	17.7	2.70	44.74	17	20
	● 14	18.5	3.17	52.85	19	21
	● 16	19.6	3.54	58.98	18	21
	● 18	19.7	3.97	66.10	20	24
	● 20	20.3	4.50	74.95	22	25
	● 22	21.3	5.23	85.94	23	27
	● 24	20.7	5.50	91.69	26	30
	○ 26	21.8	6.01	99.26	25	29
4.5	● 4	11.9	1.00	16.18	14	16
	● 6	13.7	1.45	24.28	15	18
	● 8	14.9	1.92	32.99	17	20
	● 10	16.5	2.40	40.22	18	20
	● 12	18.0	2.87	47.81	18	20
	● 14	18.9	3.37	56.12	19	22
	● 16	20.1	3.77	62.77	19	22
	● 18	20.1	4.22	70.36	21	24
	● 20	21.1	4.79	79.87	22	25
	● 22	22.0	5.51	91.80	23	26
	● 24	22.0	5.88	98.08	24	28
	○ 26	22.6	6.42	106.44	25	29
5.0	● 4	11.9	1.06	18.08	15	17
	● 6	13.7	1.54	25.74	16	19
	● 8	14.9	2.09	34.83	19	22
	● 10	16.7	2.50	42.68	18	21
	● 12	18.3	3.05	50.92	18	21
	● 14	19.2	3.54	58.96	19	22
	● 16	20.4	3.99	66.44	19	22
	● 18	20.6	4.47	74.58	21	24
	● 20	21.6	5.11	85.08	22	25
	● 22	22.4	5.84	97.39	23	27
	● 24	23.0	6.26	104.29	24	27
	○ 26	23.2	6.80	113.28	25	29

Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
5.5	● 4	11.9	1.13	18.90	16	18
	● 6	13.7	1.62	26.84	17	20
	● 8	14.9	2.25	37.02	20	23
	● 10	16.8	2.70	44.60	19	22
	● 12	18.5	3.23	53.66	19	22
	● 14	19.2	3.72	61.98	20	23
	● 16	20.4	4.22	70.28	20	23
	● 18	21.0	4.74	78.97	21	25
	● 20	21.6	5.42	90.30	23	27
	● 22	22.8	6.19	103.15	24	28
	● 24	23.5	6.62	110.33	24	28
	○ 26	24.1	7.14	119.05	25	28
6.0	● 12	18.6	3.30	55.07	19	22
	● 14	19.6	3.96	66.06	21	24
	● 16	20.9	4.45	74.12	20	24
	● 18	21.5	4.95	82.56	21	25
	● 20	22.1	5.65	94.18	23	27
	● 22	22.9	6.71	108.12	26	30
6.2	● 24	23.9	6.92	115.31	24	28
	○ 26	24.1	7.50	125.08	26	30
	● 14	19.8	4.06	67.75	21	24
	● 16	21.0	4.54	75.70	21	24
6.5	● 18	21.7	5.04	84.02	21	25
	● 20	22.5	5.89	98.19	23	27
	● 22	23.4	6.84	112.73	25	29
6.9	● 24	24.1	7.22	120.25	25	29
	○ 26	24.3	7.91	131.76	27	31
	● 20	22.9	6.09	101.43	23	27
6.9	● 22	23.5	6.97	116.19	25	29
	● 24	24.1	7.45	124.14	26	30
	○ 26	24.7	8.24	137.39	27	31

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1. See page 224 for complete ASAE Test Certification Statement.



8005 Rain Curtain™ Nozzles

Operating Range

- Precipitation rate: 0.37 to 1.14 inches per hour (9 to 29 mm/h)
- Radius: 39 to 65 feet (11.9 to 19.8 m)
- Pressure: 30 to 90 psi (2.1 to 6.2 bar)
- Flow: 2.9 to 21.7 gpm (0.66 to 4.93 m³/h; 10.8 to 82.2 l/m)

Specifications

- 1" (26/34) female NPT or BSP threaded inlet
- SAM check device holds up to 10 feet (3.1 m) of elevation change
- Rain Curtain™ Nozzles: 04-black; 06-light blue; 08-dark green; 10-grey; 12-beige; 14-light green; 16-dark brown; 18-dark blue
- Nozzle outlet trajectory is 25°

Dimensions

- Overall height: 8½" (21.6 cm)
 - Pop-up height: 4" (10.2 cm)
 - Exposed surface diameter: 2" (5.1 cm)
- Note: Pop-up height is measured from cover to center of nozzle. Overall body height is measured popped down*

Models

- F4-FC: Full-circle
- F4-PC: Part-circle
- F4-FC-NP: Full-circle, non-potable cover
- F4-PC-NP: Part-circle, non-potable cover
- F4-FC-SS: Full-circle, stainless steel
- F4-PC-SS: Part-circle, stainless steel
- F4-FC-SS-HS: Full-circle, stainless steel, high speed rotation
- F4-PC-SS-HS: Part-circle, stainless steel, high speed rotation
- F4-FC-SS-NP: Full-circle, stainless steel, non-potable cover
- F4-PC-SS-NP: Part-circle, stainless steel, non-potable cover

Note: All models available with BSP threads



Falcon® 6504 Rain Curtain™ Nozzles

Falcon® 6504 Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
30	● 4	39	2.9	0.37	0.42
	● 6	43	4.2	0.44	0.50
40	● 4	41	3.3	0.38	0.44
	● 6	45	4.9	0.47	0.54
	● 8	49	6.6	0.53	0.61
	● 10	51	8.1	0.60	0.69
	● 12	53	9.7	0.66	0.77
	● 14	55	11.3	0.72	0.83
	● 16	55	12.6	0.80	0.93
50	● 18	59	13.7	0.76	0.87
	● 4	41	3.7	0.42	0.49
	● 6	49	5.5	0.44	0.51
	● 8	51	7.4	0.55	0.63
	● 10	53	9.1	0.62	0.72
	● 12	55	11.0	0.70	0.81
	● 14	59	12.7	0.70	0.81
60	● 16	61	14.3	0.74	0.85
	● 18	59	15.4	0.85	0.98
	● 4	41	4.0	0.46	0.53
	● 6	47	6.0	0.52	0.60
	● 8	51	8.2	0.61	0.70
	● 10	55	10.0	0.64	0.73
	● 12	57	12.2	0.72	0.83
70	● 14	61	14.0	0.72	0.84
	● 16	63	15.7	0.76	0.88
	● 18	63	17.1	0.83	0.96
	● 4	41	4.4	0.50	0.58
	● 6	49	6.3	0.51	0.58
	● 8	51	8.9	0.66	0.76
	● 10	57	10.8	0.64	0.74
80	● 12	59	13.2	0.73	0.84
	● 14	61	15.2	0.79	0.91
	● 16	63	16.9	0.82	0.95
	● 18	65	18.3	0.83	0.96
	● 4	43	4.6	0.48	0.55
	● 6	49	6.9	0.55	0.64
	● 8	53	9.4	0.64	0.74
90	● 10	55	11.6	0.74	0.85
	● 12	61	14.0	0.72	0.84
	● 14	61	16.2	0.84	0.97
	● 16	63	18.1	0.88	1.01
	● 18	65	19.6	0.89	1.03
	● 4	43	4.6	0.48	0.55
	● 6	49	6.9	0.55	0.64

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1. See page 224 for complete ASAE Test Certification Statement.

Falcon® 6504 Nozzle Performance					METRIC	
Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
2.1	● 4	11.9	0.66	10.98	9	11
	● 6	13.1	0.95	15.90	11	13
2.5	● 4	12.3	0.72	11.92	10	11
	● 6	13.5	1.05	17.56	12	13
	● 8	14.9	1.50	25.20	13	16
	● 10	15.5	1.84	30.60	15	18
	● 12	16.2	2.20	36.60	17	19
	● 14	16.8	2.57	42.60	18	21
	● 16	16.8	2.86	47.40	20	24
	● 18	18.0	3.11	51.60	19	22
3.0	● 4	12.5	0.78	13.02	10	12
	● 6	14.1	1.16	19.34	12	13
	● 8	15.1	1.56	26.04	14	16
	● 10	15.8	1.92	31.99	15	18
	● 12	16.4	2.31	38.44	17	20
	● 14	17.2	2.68	44.63	18	21
	● 16	17.4	3.00	49.95	20	23
	● 18	18.0	3.25	54.11	20	23
3.5	● 4	12.5	0.85	14.09	11	13
	● 6	14.9	1.26	20.96	11	13
	● 8	15.5	1.69	28.24	14	16
	● 10	16.2	2.08	34.70	16	18
	● 12	16.8	2.52	41.98	18	21
	● 14	18.0	2.91	48.45	18	21
	● 16	18.6	3.27	54.53	19	22
	● 18	18.1	3.53	58.78	22	25
4.0	● 4	12.5	0.89	14.91	11	13
	● 6	14.4	1.34	22.33	13	15
	● 8	15.5	1.83	30.44	15	17
	● 10	16.6	2.23	37.17	16	19
	● 12	17.3	2.72	45.28	18	21
	● 14	18.5	3.12	52.01	18	21
	● 16	19.1	3.50	58.37	19	22
	● 18	19.0	3.81	63.45	21	24

Pressure bar	Nozzle	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
4.5	● 4	12.5	0.96	15.94	12	14
	● 6	14.6	1.40	16.72	13	15
	● 8	15.5	1.95	32.43	16	19
	● 10	17.1	2.37	39.44	16	19
	● 12	17.7	2.89	48.17	18	21
	● 14	18.6	3.32	55.38	19	22
	● 16	19.2	3.71	61.82	20	23
	● 18	19.5	4.03	67.12	21	24
5.0	● 4	12.7	1.01	16.84	13	15
	● 6	14.9	1.47	15.08	13	15
	● 8	15.7	2.05	34.16	17	19
	● 10	17.2	2.50	41.64	17	19
	● 12	18.1	3.04	50.72	19	21
	● 14	18.6	3.51	58.49	20	23
	● 16	19.2	3.91	65.11	21	24
	● 18	19.8	4.23	70.51	22	25
5.5	● 4	13.1	1.04	17.39	12	14
	● 6	14.9	1.56	25.79	14	16
	● 8	16.1	2.13	35.54	16	19
	● 10	16.8	2.63	43.84	19	22
	● 12	18.6	3.18	52.92	18	21
	● 14	18.6	3.67	61.23	21	25
	● 16	19.2	4.10	68.40	22	26
	● 18	19.8	4.44	74.07	23	26
6.0	● 18	19.8	4.79	79.77	24	28
6.2	● 18	19.8	4.93	82.13	25	29

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1.

See page 224 for complete ASAE Test Certification Statement.

High-Speed Falcon® 6504 Nozzle Performance					
Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
30	● 4	37	3.0	0.42	0.49
	● 6	39	4.3	0.54	0.63
40	● 4	41	3.5	0.40	0.46
	● 6	43	6.0	0.62	0.72
	● 8	47	6.6	0.58	0.66
	● 10	47	8.1	0.71	0.82
	● 12	49	9.9	0.79	0.92
	● 14	53	11.4	0.78	0.90
	● 16	51	12.6	0.93	1.08
50	● 18	53	13.9	0.95	1.10
	● 4	41	3.7	0.42	0.49
	● 6	45	5.6	0.53	0.62
	● 8	49	7.5	0.60	0.69
	● 10	49	9.2	0.74	0.85
	● 12	53	11.2	0.77	0.89
	● 14	53	12.9	0.88	1.02
60	● 16	53	14.3	0.98	1.13
	● 18	55	15.6	0.99	1.15
	● 4	41	4.2	0.48	0.56
	● 6	45	6.2	0.59	0.68
	● 8	47	8.3	0.72	0.84
	● 10	49	10.2	0.82	0.94
	● 12	53	12.4	0.85	0.98
70	● 14	53	14.2	0.97	1.12
	● 16	55	15.7	1.00	1.15
	● 18	59	17.2	0.95	1.10
	● 4	41	4.2	0.48	0.56

Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip In/h	▲ Precip In/h
70	● 4	41	4.6	0.53	0.61
	● 6	43	6.7	0.70	0.81
	● 8	49	9.0	0.72	0.83
	● 10	51	11.1	0.82	0.95
	● 12	55	13.5	0.86	0.99
	● 14	53	15.3	1.05	1.21
	● 16	57	17.1	1.01	1.17
80	● 18	59	18.6	1.03	1.19
	● 4	39	4.9	0.62	0.72
	● 6	43	7.1	0.74	0.85
	● 8	51	9.7	0.72	0.83
	● 10	49	11.9	0.95	1.10
	● 12	55	14.4	0.92	1.06
	● 14	53	16.5	1.13	1.31
90	● 16	59	18.4	1.02	1.18
	● 18	59	20.0	1.11	1.28
	● 4	61	21.3	1.10	1.27
	● 6	61	21.3	1.10	1.27

Precipitation rates based on half-circle operation
 ■ Square spacing based on 50% diameter of throw
 ▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions
 Performance data derived from tests that conform with ASAE Standards; ASAE S398.1.
 See page 224 for complete ASAE Test Certification Statement.

Rotors

High-Speed Falcon® 6504 Nozzle Performance							METRIC
Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h	
2.1	● 4	11.3	0.68	11.35	11	12	
	● 6	11.9	0.98	15.90	14	16	
2.5	● 4	12.0	0.75	12.54	10	12	
	● 6	12.7	1.22	20.16	15	18	
	● 8	14.2	1.49	25.20	15	17	
	● 10	14.2	1.83	30.60	18	21	
	● 12	14.8	2.24	37.20	20	24	
	● 14	16.0	2.58	43.20	20	23	
	● 16	15.4	2.85	47.40	24	28	
	● 18	16.0	3.15	52.80	24	28	
3.0	● 4	12.5	0.81	13.51	10	12	
	● 6	13.3	1.33	22.18	15	17	
	● 8	14.5	1.57	26.18	15	17	
	● 10	14.5	1.93	32.12	18	21	
	● 12	15.4	2.35	39.20	20	23	
	● 14	16.2	2.71	48.09	21	24	
	● 16	15.8	3.00	49.95	24	28	
	● 18	16.4	3.29	54.87	25	28	
3.5	● 4	12.5	0.85	14.15	11	13	
	● 6	13.7	1.28	21.37	14	16	
	● 8	14.9	1.72	28.62	16	18	
	● 10	14.9	2.11	35.11	19	22	
	● 12	16.2	2.56	42.74	20	23	
	● 14	16.2	2.95	49.20	23	26	
	● 16	16.2	3.27	54.53	25	29	
	● 18	16.9	3.57	59.51	25	29	
4.0	● 4	12.5	0.93	15.52	12	14	
	● 6	13.7	1.38	23.02	15	17	
	● 8	14.4	1.85	30.81	18	21	
	● 10	14.9	2.27	37.86	20	24	
	● 12	16.2	2.76	46.03	21	24	
	● 14	16.2	3.17	52.77	24	28	
	● 16	16.6	3.50	58.37	25	29	
	● 18	17.7	3.83	63.90	24	28	

Pressure bar	Nozzle	Radius m	Flow m³/h	Flow l/m	Precip mm/h	Precip mm/h
4.5	● 4	12.5	1.00	16.69	13	15
	● 6	13.4	1.48	24.46	16	19
	● 8	14.6	1.97	32.81	18	21
	● 10	15.3	2.42	40.40	21	24
	● 12	16.5	2.95	49.13	22	25
	● 14	16.2	3.36	55.94	26	30
	● 16	17.1	3.73	62.22	26	30
	● 18	18.0	4.07	67.89	25	29
5.0	● 4	12.3	1.06	17.70	14	16
	● 6	13.1	1.56	25.74	18	21
	● 8	15.1	2.08	34.73	18	21
	● 10	15.4	2.57	42.78	22	25
	● 12	16.8	3.12	51.96	22	26
	● 14	16.2	3.54	59.06	27	31
	● 16	17.5	3.96	65.96	26	30
	● 18	18.0	4.30	71.74	27	31
5.5	● 4	11.9	1.11	18.52	16	18
	● 6	13.1	1.61	26.84	19	22
	● 8	15.5	2.20	36.65	18	21
	● 10	14.9	2.70	44.97	24	28
	● 12	16.8	3.27	54.43	23	27
	● 14	16.2	3.74	62.35	29	33
	● 16	18.0	4.17	69.53	26	30
	● 18	18.0	4.53	75.58	28	32
6.0	● 18	18.4	4.75	79.16	28	32
6.2	● 18	18.6	4.84	80.62	28	32

Precipitation rates based on half-circle operation

■ Square spacing based on 50% diameter of throw

▲ Triangular spacing based on 50% diameter of throw

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1.

See page 224 for complete ASAE Test Certification Statement.