

HRN SERIES

Outstanding Distribution Uniformity and Low Precipitation Rates

Features

- Body and top are color-coded according to spray radius
- Thick, ridged edges around top of nozzle gives excellent grip no matter the conditions
- Exclusive color-coded arc edge indicator lets you set a precise pattern fast
- Adjustment slot allows use of a screwdriver to give fine arc adjustment during operation
- Matched precipitation on fixed and adjustable nozzles allow for outstanding distribution uniformity
- Strip nozzles have the most uniform precipitation rate vs. leading competitors

Fixed Pattern Spray Nozzles



Adjustable Pattern Spray Nozzles



Specifications

- Pressure range: 15-70 psi (1.03-4.83 bar)
- Optimized for 30 psi (2.1 bar)
- Filtration: 500 micron filter
















How to Specify


Model	
HRN	Nozzle
Series	
100	Fixed
200	Adjustable
Radius	
04	3'-4' with Filter Screen
08	6'-8' with Filter Screen
10	8'-10' with Filter Screen
12	10'-12' with Filter Screen
15	12'-15' with Filter Screen
18	15'-18' with Filter Screen
Pattern	
ADJ	Adjustable
Q	Quarter
H	Half
F	Full
SST	Side Strip
CST	Center Strip
EST	End Strip


Models (SKU)





- HRN-100-08-Q (04203)
- HRN-100-08-H (04204)
- HRN-100-08-F (04205)
- HRN-100-10-Q (04206)
- HRN-100-10-H (04207)
- HRN-100-10-F (04208)
- HRN-100-12-Q (04209)
- HRN-100-12-H (04210)
- HRN-100-12-F (04211)
- HRN-100-15-Q (04212)
- HRN-100-15-H (04213)
- HRN-100-15-F (04214)
- HRN-100-15-SST (04215)
- HRN-100-15-CST (04216)
- HRN-100-15-EST (04217)
- HRN-200-04-ADJ (04100)
- HRN-200-08-ADJ (04101)
- HRN-200-10-ADJ (04102)
- HRN-200-12-ADJ (04103)
- HRN-200-15-ADJ (04104)
- HRN-200-18-ADJ (04105)





PATTERN	PRESSURE PSI	RADIUS FT.	FLOW GPM	PRECIP. IN./H ■	PRECIP. IN./H ▲	PRESSURE BARS	RADIUS M	FLOW M ³ /H	FLOW L/S	PRECIP. MM/H ■	PRECIP. MM/H ▲
HRN-100-08-Q (04203)						30° Trajectory		SI (Metric)			
 90° Arc	15	5	0.18	2.07	2.39	1.0	1.5	0.04	2.85	53	61
	20	6	0.21	2.01	2.32	1.4	1.8	0.05	3.33	51	59
	25	7	0.24	1.62	1.87	1.7	2.1	0.05	3.80	41	47
	30	8	0.26	1.58	1.83	2.1	2.4	0.06	4.12	40	46
HRN-100-08-H (04204)						30° Trajectory		SI (Metric)			
 180° Arc	15	5	0.37	2.07	2.39	1.0	1.5	0.08	5.86	53	61
	20	6	0.42	2.01	2.32	1.4	1.8	0.10	6.66	51	59
	25	7	0.47	1.62	1.87	1.7	2.1	0.11	7.45	41	47
	30	8	0.52	1.58	1.83	2.1	2.4	0.12	8.24	40	46
HRN-100-08-F (04205)						30° Trajectory		SI (Metric)			
 360° Arc	15	5	0.74	2.07	2.39	1.0	1.5	0.17	11.73	53	61
	20	6	0.86	2.01	2.32	1.4	1.8	0.20	13.63	51	59
	25	7	0.96	1.62	1.87	1.7	2.1	0.22	15.22	41	47
	30	8	1.05	1.58	1.83	2.1	2.4	0.24	16.64	40	46
HRN-100-10-Q (04206)						30° Trajectory		SI (Metric)			
 90° Arc	15	7	0.29	2.28	2.63	1.0	2.1	0.07	4.60	58	67
	20	8	0.33	1.96	2.26	1.4	2.4	0.07	5.23	50	57
	25	9	0.36	1.71	1.98	1.7	2.7	0.08	5.71	43	50
	30	10	0.39	1.52	1.75	2.1	3.0	0.09	6.18	39	44
HRN-100-10-H (04207)						30° Trajectory		SI (Metric)			
 180° Arc	15	7	0.58	2.28	2.63	1.0	2.1	0.13	9.19	58	67
	20	8	0.65	1.96	2.26	1.4	2.4	0.15	10.30	50	57
	25	9	0.72	1.71	1.98	1.7	2.7	0.16	11.41	43	50
	30	10	0.79	1.52	1.75	2.1	3.0	0.18	12.52	39	44
HRN-100-10-F (04208)						30° Trajectory		SI (Metric)			
 360° Arc	15	7	1.58	2.28	2.63	1.0	2.1	0.36	25.04	58	67
	20	8	1.68	1.96	2.26	1.4	2.4	0.38	26.63	50	57
	25	9	1.82	1.71	1.98	1.7	2.7	0.41	28.85	43	50
	30	10	1.92	1.52	1.75	2.1	3.0	0.44	30.43	39	44
HRN-100-12-Q (04209)						30° Trajectory		SI (Metric)			
 90° Arc	15	9	0.45	2.14	2.47	1.0	2.7	0.10	7.13	54	63
	20	10	0.53	2.02	2.34	1.4	3.0	0.12	8.40	51	59
	25	11	0.60	1.91	2.21	1.7	3.4	0.14	9.51	49	56
	30	12	0.65	1.74	2.01	2.1	3.7	0.15	10.30	44	51
HRN-100-12-H (04210)						30° Trajectory		SI (Metric)			
 180° Arc	15	9	0.90	2.14	2.47	1.0	2.7	0.20	14.27	54	63
	20	10	1.05	2.02	2.34	1.4	3.0	0.24	16.64	51	59
	25	11	1.20	1.91	2.21	1.7	3.4	0.27	19.02	49	56
	30	12	1.30	1.74	2.01	2.1	3.7	0.30	20.61	44	51
HRN-100-12-F (04211)						30° Trajectory		SI (Metric)			
 360° Arc	15	9	1.80	2.14	2.47	1.0	2.7	0.41	28.53	54	63
	20	10	2.10	2.02	2.34	1.4	3.0	0.48	33.29	51	59
	25	11	2.40	1.91	2.21	1.7	3.4	0.55	38.04	49	56
	30	12	2.60	1.74	2.01	2.1	3.7	0.59	41.21	44	51
HRN-100-15-Q (04212)						30° Trajectory		SI (Metric)			
 90° Arc	15	11	0.65	2.07	2.39	1.0	3.4	0.15	10.30	53	61
	20	12	0.75	2.01	2.32	1.4	3.7	0.17	11.89	51	59
	25	14	0.82	1.62	1.87	1.7	4.3	0.19	13.00	41	47
	30	15	0.92	1.58	1.83	2.1	4.6	0.21	14.58	40	46
HRN-100-15-H (04213)						30° Trajectory		SI (Metric)			
 180° Arc	15	11	1.30	2.07	2.39	1.0	3.4	0.30	20.61	53	61
	20	12	1.50	2.01	2.32	1.4	3.7	0.34	23.78	51	59
	25	14	1.65	1.62	1.87	1.7	4.3	0.37	26.15	41	47
	30	15	1.85	1.58	1.83	2.1	4.6	0.42	29.32	40	46
HRN-100-15-F (04214)						30° Trajectory		SI (Metric)			
 360° Arc	15	11	2.60	2.07	2.39	1.0	3.4	0.59	41.21	53	61
	20	12	3.00	2.01	2.32	1.4	3.7	0.68	47.55	51	59
	25	14	3.30	1.62	1.87	1.7	4.3	0.75	52.31	41	47
	30	15	3.70	1.58	1.83	2.1	4.6	0.84	58.65	40	46



PATTERN	PRESSURE PSI	W x L FT.	FLOW GPM	PRESSURE BARS	RADIUS M Width	RADIUS M Length	FLOW M ³ /H	FLOW L/S		
HRN-100-15-SST (04215)			30° Trajectory		SI (Metric)					
	15	4 x 26	0.89	1.0	1.2	7.9	0.20	14.11		
	20	4 x 28	1.00	1.4	1.2	8.5	0.23	15.85		
	25	4 x 28	1.11	1.7	1.2	8.5	0.25	17.59		
	30	4 x 30	1.21	2.1	1.2	9.1	0.27	19.18		















HRN-100-15-CST (04216)			30° Trajectory		SI (Metric)					
	15	4 x 26	0.89	1.0	1.2	7.9	0.20	14.11		
	20	4 x 28	1.00	1.4	1.2	8.5	0.23	15.85		
	25	4 x 28	1.11	1.7	1.2	8.5	0.25	17.59		
	30	4 x 30	1.21	2.1	1.2	9.1	0.27	19.18		

HRN-100-15-EST (04217)			30° Trajectory		SI (Metric)					
	15	4 x 13	0.45	1.0	1.2	4.0	0.10	7.13		
	20	4 x 14	0.50	1.4	1.2	4.3	0.11	7.93		
	25	4 x 14	0.56	1.7	1.2	4.3	0.13	8.88		
	30	4 x 15	0.61	2.1	1.2	4.6	0.14	9.67		

PATTERN	PRESSURE PSI	RADIUS FT.	FLOW GPM	PRECIP. IN./H ■	PRECIP. IN./H ▲	PRESSURE BARS	RADIUS M	FLOW M ³ /H	FLOW L/S	PRECIP. MM/H ■	PRECIP. MM/H ▲
HRN-200-04-ADJ (04100)			0° Trajectory		SI (Metric)						
	15	4	0.40	9.50	10.98	1.0	1.2	0.09	0.02	241	279
	20	4	0.42	10.11	11.68	1.4	1.2	0.10	0.03	257	297
	25	4	0.46	10.95	12.65	1.7	1.2	0.10	0.03	278	321
	30	4	0.48	11.55	13.34	2.1	1.2	0.11	0.03	293	339
	15	4	0.79	9.50	10.98	1.0	1.2	0.18	0.05	241	279
	20	4	0.74	10.11	11.68	1.4	1.2	0.19	0.05	257	297
	25	4	0.91	10.95	12.65	1.7	1.2	0.21	0.06	278	321
	30	4	0.96	11.55	13.34	2.1	1.2	0.22	0.06	293	339
	15	4	1.19	9.50	10.98	1.0	1.2	0.27	0.07	241	279
	20	4	1.26	10.11	12.65	1.4	1.2	0.29	0.08	257	297
	25	4	1.37	10.95	12.65	1.7	1.2	0.31	0.09	278	321
	30	4	1.44	11.55	13.34	2.1	1.2	0.33	0.09	293	339
	15	4	1.58	9.50	10.98	1.0	1.2	0.36	0.10	241	279
	20	4	1.68	10.11	12.65	1.4	1.2	0.38	0.11	257	297
	25	4	1.82	10.95	12.65	1.7	1.2	0.41	0.11	278	321
	30	4	1.92	11.55	13.34	2.1	1.2	0.44	0.12	293	339

HRN-200-08-ADJ (04101)			5° Trajectory		SI (Metric)						
	15	7	0.53	4.16	4.81	1.0	2.1	0.12	0.03	106	122
	20	7	0.58	4.52	5.22	1.4	2.1	0.13	0.04	115	133
	25	8	0.62	3.70	4.27	1.7	2.4	0.14	0.04	94	109
	30	9	0.65	3.09	3.57	2.1	2.7	0.15	0.04	78	91
	15	7	1.06	4.16	4.81	1.0	2.1	0.24	0.07	106	122
	20	7	1.15	4.52	5.22	1.4	2.1	0.26	0.07	115	133
	25	8	1.23	3.70	4.27	1.7	2.4	0.28	0.08	94	109
	30	9	1.30	3.09	3.57	2.1	2.7	0.30	0.08	78	91
	15	7	1.59	4.16	4.81	1.0	2.1	0.36	0.10	106	122
	20	7	1.73	4.52	5.22	1.4	2.1	0.39	0.11	115	133
	25	8	1.85	3.70	4.27	1.7	2.4	0.42	0.12	94	109
	30	9	1.95	3.09	3.57	2.1	2.7	0.44	0.12	78	91
	15	7	2.12	4.16	4.81	1.0	2.1	0.48	0.13	106	122
	20	7	2.30	4.52	5.22	1.4	2.1	0.52	0.15	115	133
	25	8	2.46	3.70	4.27	1.7	2.4	0.56	0.16	94	109
	30	9	2.60	3.09	3.57	2.1	2.7	0.59	0.16	78	91

HRN-200-10-ADJ (04102)			10° Trajectory		SI (Metric)						
	15	8	0.51	3.04	3.51	1.0	2.4	0.11	0.02	77	89
	20	8	0.57	3.43	3.96	1.4	2.4	0.13	0.04	87	101
	25	9	0.59	2.82	3.25	1.7	2.7	0.13	0.04	72	83
	30	10	0.67	2.56	2.96	2.1	3.0	0.15	0.04	65	75
	15	8	1.01	3.04	3.51	1.0	2.4	0.23	0.06	77	89
	20	8	1.14	3.43	3.96	1.4	2.4	0.26	0.07	87	101
	25	9	1.19	2.82	3.25	1.7	2.7	0.27	0.07	72	83
	30	10	1.33	2.56	2.96	2.1	3.0	0.30	0.08	65	75

PATTERN	PRESSURE PSI	RADIUS FT.	FLOW GPM	PRECIP. IN./H ■	PRECIP. IN./H ▲	PRESSURE BARS	RADIUS M	FLOW M ³ /H	FLOW L/S	PRECIP. MM/H ■	PRECIP. MM/H ▲		
HRN-200-10-ADJ (04102)						10° Trajectory						SI (Metric)	
 270° Arc	15	8	1.52	3.04	3.51	1.0	2.4	0.34	0.10	77	89		
	20	8	1.71	3.43	3.96	1.4	2.4	0.39	0.11	87	101		
	25	9	1.78	2.82	3.25	1.7	2.7	0.40	0.11	72	83		
	30	10	2.00	2.56	2.96	2.1	3.0	0.45	0.13	65	75		
 360° Arc	15	8	2.02	3.04	3.51	1.0	2.4	0.46	0.13	77	89		
	20	8	2.28	3.43	3.96	1.4	2.4	0.52	0.14	87	101		
	25	9	2.37	2.82	3.25	1.7	2.7	0.54	0.15	72	83		
	30	10	2.66	2.56	2.96	2.1	3.0	0.60	0.17	65	75		
HRN-200-12-ADJ (04103)						15° Trajectory						SI (Metric)	
 90° Arc	15	11	0.52	1.65	1.91	1.0	3.4	0.12	0.03	42	49		
	20	11	0.61	1.94	2.24	1.4	3.4	0.14	0.04	49	57		
	25	12	0.70	1.86	2.15	1.7	3.7	0.16	0.04	47	55		
	30	13	0.71	1.61	1.86	2.1	4.0	0.16	0.04	41	47		
 180° Arc	15	11	1.04	1.65	1.91	1.0	3.4	0.24	0.07	42	49		
	20	11	1.22	1.94	2.24	1.4	3.4	0.28	0.08	49	57		
	25	12	1.40	1.86	2.15	1.7	3.7	0.32	0.09	47	55		
	30	13	1.41	1.61	1.86	2.1	4.0	0.32	0.09	41	47		
 270° Arc	15	11	1.56	1.65	1.91	1.0	3.4	0.35	0.10	42	49		
	20	11	1.83	1.94	2.24	1.4	3.4	0.42	0.12	49	57		
	25	12	2.09	1.86	2.15	1.7	3.7	0.48	0.13	47	55		
	30	13	2.12	1.61	1.86	2.1	4.0	0.48	0.13	41	47		
 360° Arc	15	11	2.08	1.65	1.91	1.0	3.4	0.47	0.13	42	49		
	20	11	2.44	1.94	2.24	1.4	3.4	0.55	0.15	49	57		
	25	12	2.79	1.86	2.15	1.7	3.7	0.63	0.18	47	55		
	30	13	2.82	1.61	1.86	2.1	4.0	0.64	0.18	41	47		
HRN-200-15-ADJ (04104)						23° Trajectory						SI (Metric)	
 90° Arc	15	14	0.69	1.35	1.56	1.0	4.3	0.16	0.04	34	40		
	20	14	0.72	1.41	1.63	1.4	4.3	0.16	0.05	36	41		
	25	15	0.75	1.29	1.49	1.7	4.6	0.17	0.05	33	38		
	30	16	0.78	1.17	1.36	2.1	4.9	0.18	0.05	30	34		
 180° Arc	15	14	1.38	1.35	1.56	1.0	4.3	0.31	0.09	34	40		
	20	14	1.44	1.41	1.63	1.4	4.3	0.33	0.09	36	41		
	25	15	1.51	1.29	1.49	1.7	4.6	0.34	0.09	33	38		
	30	16	1.56	1.17	1.36	2.1	4.9	0.35	0.10	30	34		
 270° Arc	15	14	2.06	1.35	1.56	1.0	4.3	0.47	0.13	34	40		
	20	14	2.15	1.41	1.63	1.4	4.3	0.49	0.14	36	41		
	25	15	2.26	1.29	1.49	1.7	4.6	0.51	0.14	33	38		
	30	16	2.34	1.17	1.36	2.1	4.9	0.53	0.15	30	34		
 360° Arc	15	14	2.75	1.35	1.56	1.0	4.3	0.62	0.17	34	40		
	20	14	2.87	1.41	1.63	1.4	4.3	0.65	0.18	36	41		
	25	15	3.01	1.29	1.49	1.7	4.6	0.68	0.19	33	38		
	30	16	3.12	1.17	1.36	2.1	4.9	0.71	0.20	30	34		
HRN-200-18-ADJ (04105)						26° Trajectory						SI (Metric)	
 90° Arc	15	15	0.71	1.22	1.41	1.0	4.6	0.16	0.04	31	36		
	20	16	0.74	1.11	1.29	1.4	4.9	0.17	0.05	28	33		
	25	17	0.78	1.04	1.20	1.7	5.2	0.18	0.05	26	30		
	30	18	0.83	0.98	1.13	2.1	5.5	0.19	0.05	25	29		
 180° Arc	15	15	1.43	1.22	1.41	1.0	4.6	0.32	0.09	31	36		
	20	16	1.48	1.11	1.29	1.4	4.9	0.34	0.09	28	33		
	25	17	1.56	1.04	1.20	1.7	5.2	0.35	0.10	26	30		
	30	18	1.65	0.98	1.13	2.1	5.5	0.37	0.10	25	29		
 270° Arc	15	15	2.14	1.22	1.41	1.0	4.6	0.49	0.13	31	36		
	20	16	2.22	1.11	1.29	1.4	4.9	0.50	0.14	28	33		
	25	17	2.34	1.04	1.20	1.7	5.2	0.53	0.15	26	30		
	30	18	2.48	0.98	1.13	2.1	5.5	0.56	0.16	25	29		
 360° Arc	15	15	2.85	1.22	1.41	1.0	4.6	0.65	0.18	31	36		
	20	16	2.96	1.11	1.29	1.4	4.9	0.67	0.19	28	33		
	25	17	3.12	1.04	1.20	1.7	5.2	0.71	0.20	26	30		
	30	18	3.30	0.98	1.13	2.1	5.5	0.75	0.21	25	29		