

ST-1600-KIT-B

This all-in-one solution offers unmatched cooling, cleaning, and better playability capabilities to prepare synthetic turf sports fields.

KEY BENEFITS

- Through-the-top design permits easy access to all irrigation components for quick servicing and maintenance
- Proven, isolated, grease-lubricated gear drive delivers consistent top-performance
- Flexible arc adjustment from 40° to non-reversing 360° with left and right movable stops makes it easy to set a precise arc
- Ratcheting nozzle turret for simple setup
- Adjustable speed of rotation up to 65 seconds enables quick wetting where dust control is needed
- Stainless steel and brass internal construction for long-term reliability
- Six nozzle choices included from 16 to 26 (20 standard) with 22.5° trajectory for choosing the perfect option
- (High-speed models: 180° at 8bar; 800 kPa)



OPERATING SPECIFICATIONS

- Radius: 32.5 to 50.3 m
- Flow: 21.8 to 74.2 m³/hr; 364 to 1,237 l/min
- Operating pressure range: 4.0 to 8.0 bar; 400 to 800 kPa
- Precipitation rate: 60 mm/hr approximately
- Warranty period: 5 years for component parts

USER-INSTALLED OPTIONS

- Simulated concrete cover for attachment to flattened IBS (used with vault): P/N ST-FRP-1600
- ST-approved adhesive for attaching artificial turf, track, or ST-FRP-1600 to Infill Barrier System: P/N ST-ADH-K
- ST-1600 Short-Radius Nozzle Kit: P/N 959900
- DC-Latching Solenoid Kit: P/N ST-LSA

ST-1600 NOZZLE PERFORMANCE DATA

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m ³ /hr	l/min	■	▲
16	4.0	400	32.5	21.8	364	41.4	47.8
	5.0	500	35.0	24.4	406	39.8	45.9
	6.0	600	37.0	26.8	446	39.1	45.1
	7.0	700	39.0	28.9	482	38.0	43.9
	8.0	800	41.0	31.2	520	37.1	42.9
18	4.0	400	34.0	24.3	405	42.0	48.6
	5.0	500	37.0	27.1	452	39.6	45.8
	6.0	600	39.0	29.8	496	39.1	45.2
	7.0	700	40.5	32.1	535	39.1	45.2
	8.0	800	43.0	34.8	580	37.6	43.5
20	4.0	400	35.0	32.7	545	53.4	61.7
	5.0	500	39.0	36.5	609	48.1	55.5
	6.0	600	43.0	40.1	668	43.4	50.1
	7.0	700	44.0	43.3	721	44.7	51.6
	8.0	800	45.0	46.4	773	45.8	52.9
22	4.0	400	36.0	38.9	649	60.1	69.4
	5.0	500	39.5	43.6	726	55.8	64.5
	6.0	600	44.0	47.7	795	49.3	56.9
	7.0	700	47.0	51.5	859	46.7	53.9
	8.0	800	48.0	55.2	920	47.9	55.3
24	4.0	400	37.0	45.9	765	67.1	77.4
	5.0	500	40.5	51.3	855	62.6	72.2
	6.0	600	45.0	56.2	937	55.5	64.1
	7.0	700	47.5	60.7	1012	53.8	62.2
	8.0	800	48.7	65.0	1084	54.9	63.3
26	4.0	400	38.4	53.0	883	71.8	82.9
	5.0	500	41.4	59.2	986	68.8	79.5
	6.0	600	46.0	64.6	1077	61.0	70.4
	7.0	700	48.7	69.7	1162	58.6	67.7
	8.0	800	50.3	74.2	1237	58.7	67.8

Note: All precipitation rates calculated for 180 degree operation. For precipitation rate of 360 degree sprinkler divide by 2.

ST-1600 SHORT-RADIUS NOZZLE KIT PERFORMANCE CHART

Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m ³ /hr	l/min	■	▲
8	4	400	21.3	5.3	88	23.3	26.8
	5	500	21.9	5.8	97	24.1	27.8
	6	600	22.6	6.2	103	24.4	28.1
	7	700	23.2	6.6	111	24.7	28.5
10	4	400	24.7	8.6	143	28.2	32.5
	5	500	25.6	9.7	161	29.5	34
	6	600	26.2	10.7	178	31.1	36
	7	700	26.8	11.6	193	32.2	37.2
12	4	400	28	12.2	204	31.1	36
	5	500	28.7	13.7	229	33.5	38.7
	6	600	29.3	14.9	249	34.9	40.3
	7	700	29.9	16.3	272	36.6	42.2
14	4	400	31.4	15.7	262	31.9	36.9
	5	500	32	17.8	296	34.7	40
	6	600	32.9	19.4	324	35.8	41.4
	7	700	33.5	21	350	37.4	43.2

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