

SG-SD

Neck Size (in)	Neck Area (Sq. ft)	Area Factor Ak	Neck Velocity, fpm	100	150	200	250	300	350	400	450	500
6x6	0.250	0.088	Velocity Pressure	0.001	0.001	0.003	0.004	0.006	0.008	0.010	0.013	0.016
			Airflow, cfm	25	38	50	63	75	88	100	113	125
			Face Velocity, fpm	225	338	451	564	676	789	902	1014	1127
			Total Pressure	0.005	0.012	0.022	0.034	0.049	0.066	0.086	0.109	0.135
			Noise Criteria	-	-	-	-	-	-	11	14	18
Throw, FT	1-2-8	2-4-13	3-8-17	5-11-21	8-13-23	10-15-25	11-17-27	13-19-28	14-21-30			
8x8	0.444	0.164	Airflow, cfm	44	67	89	111	133	155	178	200	222
			Face Velocity, fpm	212	318	424	530	636	742	848	953	1059
			Total Pressure	0.005	0.011	0.020	0.031	0.045	0.062	0.080	0.102	0.126
			Noise Criteria	-	-	-	-	-	-	13	17	21
			Throw, FT	1-2-9	2-5-16	4-9-22	7-14-27	9-16-31	13-19-33	15-22-36	16-24-38	18-27-40
10x10	0.694	0.265	Airflow, cfm	69	104	139	174	208	243	278	312	347
			Face Velocity, fpm	202	303	404	505	606	707	808	909	1009
			Total Pressure	0.005	0.011	0.019	0.030	0.043	0.058	0.076	0.096	0.119
			Noise Criteria	-	-	-	-	-	11	16	20	23
			Throw, FT	1-3-11	3-6-20	5-11-27	8-17-33	11-20-39	15-23-42	18-27-45	20-30-47	22-33-50
12x12	1.000	0.392	Airflow, cfm	100	150	200	250	300	350	400	450	500
			Face Velocity, fpm	194	291	388	485	582	679	776	873	970
			Total Pressure	0.005	0.010	0.018	0.028	0.041	0.055	0.072	0.092	0.113
			Noise Criteria	-	-	-	-	-	13	18	22	25
			Throw, FT	1-3-12	3-7-23	6-12-31	9-19-39	12-23-46	17-27-50	21-31-53	23-35-57	26-39-60
18x18	2.250	0.936	Airflow, cfm	225	338	450	563	675	788	900	1013	1125
			Face Velocity, fpm	178	267	356	445	533	622	711	800	889
			Total Pressure	0.004	0.009	0.016	0.026	0.037	0.050	0.065	0.083	0.102
			Noise Criteria	-	-	-	-	12	17	22	26	29
			Throw, FT	2-4-16	4-9-34	7-16-45	11-25-56	16-34-67	22-39-75	29-45-80	34-51-85	37-56-90
24x24	4.000	1.736	Airflow, cfm	400	600	800	1000	1200	1400	1600	1800	2000
			Face Velocity, fpm	167	251	334	418	501	585	668	752	836
			Total Pressure	0.004	0.009	0.015	0.024	0.034	0.046	0.061	0.077	0.095
			Noise Criteria	-	-	-	-	15	20	25	29	32
			Throw, FT	2-5-20	5-11-44	9-20-58	14-31-73	20-44-87	27-51-100	35-58-107	44-65-113	48-73-120
30x30	6.250	2.804	Airflow, cfm	625	938	1250	1563	1875	2188	2500	2813	3125
			Face Velocity, fpm	159	239	318	398	478	557	637	717	796
			Total Pressure	0.004	0.008	0.014	0.022	0.032	0.044	0.057	0.073	0.090
			Noise Criteria	-	-	-	12	18	23	27	31	34
			Throw, FT	3-6-23	6-13-52	10-23-71	16-36-89	23-52-106	31-62-124	41-71-134	52-80-142	59-89-149

- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006
- All data based upon supply performance
- All pressures are in inches of water
- The negative static pressure for return performance is equal to the total pressure of supply at the same cfm
- Throw values are for terminal velocities of 150, 100 and 50 fpm under isothermal conditions. See the section, Engineering Guidelines, in this catalog for throw information.
- Noise Criteria values are based on a room absorption of 10 dB
- Dash (-) in space indicates NC value less than 10
- Return NC is 2 NC higher than supply NC at the same cfm