

SG-TDC

Neck Size (Inches)	Nominal Duct Area	Neck Velocity Total Pressure	NC-20				NC-30			
			100 0.006	200 0.022	300 0.050	400 0.089	500 0.137	600 0.197	700 0.275	
6 x 6 AD 0.25 ft ²	0.25	Airflow, cfm	25	50	75	100	125	150	175	NC-40
		NC (Noise Criteria)	-	-	-	19	23	29	33	
		Throw, ft.	1-1-2	1-2-3	1-3-5	3-5-7	3-6-9	4-7-11	5-7-12	
9 x 9 AD 0.56 ft ²	0.44	Airflow, cfm	55	110	170	225	280	335	390	NC-40
		NC (Noise Criteria)	-	-	12	22	29	35	40	
		Throw, ft.	1-1-2	1-3-5	3-5-8	5-7-12	6-9-13	7-10-16	8-11-18	
12 x 12 AD 1.00 ft ²	0.56	Airflow, cfm	100	200	300	400	500	600	700	NC-50
		NC (Noise Criteria)	-	-	17	26	33	39	44	
		Throw, ft.	1-1-2	2-4-6	4-6-9	6-9-13	7-10-16	9-13-21	10-14-21	
15 x 15 AD 1.56 ft ²	1.00	Airflow, cfm	155	310	470	625	780	935	1090	NC-50
		NC (Noise Criteria)	-	-	20	29	36	42	47	
		Throw, ft.	1-2-4	2-5-8	4-8-12	8-11-12	10-14-23	11-17-27	10-19-30	
18 x 18 AD 2.25 ft ²	1.78	Airflow, cfm	225	450	675	900	1125	1350	1575	NC-50
		NC (Noise Criteria)	-	11	24	33	40	46	50	
		Throw, ft.	1-2-4	3-7-11	4-9-16	8-13-22	11-17-28	13-20-32	14-22-36	
21 x 21 AD 3.06 ft ²	2.25	Airflow, cfm	305	610	920	1225	1530	1835	2140	NC-50
		NC (Noise Criteria)	-	13	26	35	42	47	53	
		Throw, ft.	1-3-5	3-8-13	7-11-19	10-16-25	13-20-30	15-23-37	17-26-42	
24 x 24 AD 4.00 ft ²	2.78	Airflow, cfm	400	800	1200	1600	2000	2400	2800	NC-50
		NC (Noise Criteria)	-	15	28	37	44	50	54	
		Throw, ft.	1-3-5	4-6-14	8-13-22	12-13-29	16-23-36	18-27-43	20-30-47	

- Neck velocities are in feet per minute
- All pressures are in inches of water
- Throw values, measured in feet, are for terminal velocities of 150, 100 and 50 fpm. See the section, Engineering Guidelines, in this catalog for throw information.
- Noise Criteria (NC) values based on a room absorption of 10 dB, re 10⁻¹² watts
- Dividing lines denote ranges of NC values
- The negative static pressure for the return is equal to the total pressure of the supply at the same cfm
- Return Noise Criteria is 2 NC greater than the supply NC at the same cfm
- Dash (—) in space indicates Noise Criteria value less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70–2006
- Performance is based on standard construction