ENGINEERING DATA

SG500

Neck Size (in.)	Nominal Duct Area ($ft.^2$)	Neck Velocity	100	200	300	400	500	600	700
		Total Pressure	0.006	0.022	0.050	0.089	0.137	0.197	0.275
6x6	0.25	Airflow (CFM)	25	50	75	100	125	150	175
		NC	-	-	-	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
9x9	0.56	Airflow (CFM)	55	110	170	225	280	335	390
		NC	-	-	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
12x12	1.00	Airflow (CFM)	100	200	300	400	500	600	700
		NC	-	-	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	10-14-23
15x15	1.56	Airflow (CFM)	155	310	470	625	780	935	1090
		NC	-	-	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
18x18	2.25	Airflow (CFM)	225	450	675	900	1125	1350	1575
		NC	-	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
21x21	3.06	Airflow (CFM)	305	610	920	1225	1530	1835	2140
		NC	-	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
24x24	4.00	Airflow (CFM)	400	800	1200	1600	2000	2400	2800
		NC	-	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

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.
2. Neck velocities are in feet per minute; pressures are in inches of water.
3. Data is based on supply conditions.
4. NC values are based on room absorption of 10dB.
5. The negative static pressure for return performance is equal to the total pressure of supply at the same CFM.
6. Return NC is 2 higher than supply NC at the same CFM.
7. Throw values (ft.) are for terminal velocities of 150, 100 and 50 fpm at isothermal conditions.
8. Dash (-) in space indicates NC value less than 10.