ENGINEERING DATA

SG100

Nom. Duct Size (in.)	Nom. Duct Area (ft^2)	Face Free Area (ft^2)									
			Face Velocity (fpm)	150	275	400	525	650	775	900	1025	1150
			Velocity Pressure	0.000	0.001	0.002	0.003	0.005	0.007	0.010	0.013	0.016
			Total Pressure	0.005	0.017	0.037	0.063	0.097	0.138	0.186	0.241	0.303
			Neck Velocity	67	122	178	233	289	344	400	456	511
6x6	0.25	0.11	Airflow (CFM)	17	31	44	58	72	86	100	114	128
			NC	-	-	-	13	19	24	29	33	36
			Throw, ft.	1-2-5	2-5-9	4-7-11	6-9-13	7-10-14	9-11-16	10-12-17	10-13-18	11-14-19
12x12	1.00	0.44	Airflow (CFM)	67	122	178	233	289	344	400	456	511
			NC	-	-	-	19	25	30	35	39	42
			Throw, ft.	1-3-10	5-9-18	9-13-23	12-17-26	14-20-29	17-22-31	20-24-34	21-26-36	22-27-38
18x18	2.25	1.00	Airflow (CFM)	150	275	400	525	650	775	900	1025	1150
			NC	-	-	14	22	29	34	38	42	46
			Throw, ft.	2-5-15	7-14-27	13-20-34	17-26-39	22-31-43	26-33-47	29-36-51	31-38-54	33-41-58
24x24	4.00	1.78	Airflow (CFM)	267	489	711	933	1156	1378	1600	1822	2044
			NC	-	-	16	25	31	36	41	45	48
			Throw, ft.	3-6-20	9-18-37	18-27-45	23-35-52	29-41-58	34-45-63	39-48-68	42-51-72	44-54-77
30x30	6.25	2.78	Airflow (CFM)	417	764	1111	1458	1806	2153	2500	2847	3194
			NC	-	-	18	27	33	38	43	47	50
			Throw, ft.	3-8-25	11-23-46	22-33-57	29-44-65	36-44-65	36-51-72	43-56-79	52-64-91	55-68-96

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.
2. Pressures are in inches of water.
3. Data is based on supply performance.
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.