

# ENGINEERING DATA

SG200

Nom. Duct Size (in.)	Nom. Duct Area (ft <sup>2</sup> )	Face Free Area (ft <sup>2</sup> )	Face Velocity (FPM)	225	338	450	563	675	788	900	1013	1125
			Velocity Pressure	0.001	0.001	0.002	0.004	0.006	0.008	0.010	0.013	0.016
			Total Pressure	0.005	0.011	0.020	0.031	0.044	0.060	0.079	0.100	0.123
			Neck Velocity	100	150	200	250	300	350	400	450	500

  

6x6	0.25	0.11	Airflow (CFM)	25	37	50	62	75	87	100	112	125
			NC	-	-	-	-	11	15	19	23	26
			Throw, ft.	1-2-5	2-4-7	3-5-10	4-6-12	5-7-13	6-8-15	6-10-16	7-11-16	8-12-17

  

12x12	1.00	0.44	Airflow (CFM)	100	150	200	250	300	350	400	450	500
			NC	-	-	-	11	17	21	25	29	32
			Throw, ft.	2-4-10	4-7-14	6-10-19	8-12-24	10-14-27	11-17-29	13-19-31	14-21-33	16-24-35

  

18x18	2.25	1.00	Airflow (CFM)	225	337	450	562	675	787	900	1012	1125
			NC	-	-	-	15	20	25	29	32	35
			Throw, ft.	3-6-14	6-11-21	10-14-29	12-18-36	14-21-40	17-25-44	19-29-47	21-32-49	24-36-52

  

24x24	4	1.78	Airflow (CFM)	400	600	800	1000	1200	1400	1600	1800	2000
			NC	-	-	11	17	23	27	31	35	38
			Throw, ft.	4-8-19	8-14-29	13-19-38	16-24-48	19-29-54	22-33-58	25-38-62	29-43-66	32-48-70

  

30x30	6.25	2.78	Airflow (CFM)	625	937	1250	1562	1875	2187	2500	2812	3125
			NC	-	-	12	19	25	29	33	37	40
			Throw, ft.	4-10-24	10-18-36	16-24-48	20-30-60	24-36-67	28-42-78	32-48-78	36-54-82	40-60-87



**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.