



# DOOR GRILLES PERFORMANCE DATA



**Performance Data**  
**Door/Transfer Grilles**  
**MODELS: DG-1, DG-2, DG-3**

Nominal Size (inches)	Alternate Size (inches)	Core Area (sq. ft.)	Ak Factor	Core Velocity VP Neg. SP	100	150	200	250	300	350	400	450
					.001	.001	.002	.004	.006	.008	.010	.013
6 x 6	8 x 4 10 x 4	0.18	0.25	CFM	18	27	36	45	54	63	72	81
				NC	-	-	13	18	22	25	28	30
8 x 6	12 x 4	0.25	0.33	CFM	25	38	50	63	75	88	100	113
				NC	-	-	14	19	23	26	29	31
10 x 6	16 x 4	0.32	0.41	CFM	32	48	64	80	96	112	128	144
				NC	-	-	15	20	24	27	30	33
8 x 8		0.35	0.44	CFM	35	53	70	88	105	123	140	158
				NC	-	-	15	20	24	27	30	32
12 x 6	18 x 4	0.40	0.50	CFM	40	60	80	100	120	140	160	180
				NC	-	-	10	16	21	25	28	31
12 x 8	16 x 6 24 x 4	0.55	0.66	CFM	55	83	110	138	165	193	220	248
				NC	-	-	11	17	22	26	29	32
10 x 10	26 x 4	0.58	0.69	CFM	58	87	116	145	174	203	232	261
				NC	-	-	11	17	22	26	29	32
12 x 10	16 x 8 20 x 6	0.70	0.82	CFM	70	105	140	175	210	245	280	315
				NC	-	-	13	19	23	27	30	33
12 x 12	14 x 10 18 x 8 24 x 6	0.86	0.99	CFM	86	129	172	215	258	301	344	387
				NC	-	-	14	20	24	28	31	34
14 x 14	16 x 12 20 x 10 24 x 8 34 x 6	1.20	1.35	CFM	120	180	240	300	420	420	480	540
				NC	-	-	15	21	25	29	32	35
18 x 12	16 x 14 22 x 10 28 x 8	1.32	1.49	CFM	132	198	264	330	396	462	528	594
				NC	-	-	16	22	26	30	33	36
16 x 16	18 x 14 22 x 12 30 x 8	1.59	1.76	CFM	159	239	318	398	477	557	636	716
				NC	-	-	16	22	27	32	34	36
24 x 12	18 x 16 20 x 14 30 x 10	1.79	1.98	CFM	179	269	358	448	537	627	716	806
				NC	-	-	17	23	28	33	35	37
18 x 18	20 x 16 24 x 14 28 x 12 32 x 10	2.04	2.23	CFM	204	306	408	510	612	714	816	918
				NC	10	18	24	29	34	36	38	41
30 x 12	20 x 18 22 x 16 26 x 14 36 x 10	2.25	2.48	CFM	225	338	450	563	675	788	900	1013
				NC	10	18	24	29	34	36	38	41
20 x 20	24 x 18 26 x 16 30 x 14 36 x 12	2.54	2.75	CFM	254	381	508	635	762	889	1016	1143
				NC	11	19	25	30	35	37	39	42
22 x 22	24 x 20 26 x 18 30 x 16 36 x 14	3.10	3.33	CFM	310	465	620	775	930	1085	1240	1395
				NC	11	19	25	30	35	38	40	43
30 x 18	24 x 22 34 x 16 40 x 14	3.46	3.71	CFM	346	519	692	865	1038	1211	1384	1557
				NC	11	20	26	30	35	38	40	43
24 x 24	26 x 22 28 x 20 32 x 18 36 x 16	3.71	3.96	CFM	371	557	742	928	1113	1299	1484	1670
				NC	11	20	26	30	35	38	41	44
36 x 18	32 x 20	4.18	4.46	CFM	418	627	836	1045	1254	1463	1672	1881
				NC	11	20	26	30	35	39	41	44
26 x 26	28 x 24	4.38	4.65	CFM	438	657	876	1095	1314	1533	1752	1971
				NC	12	20	27	31	36	39	41	44
30 x 24	28 x 26 32 x 22 36 x 20	4.68	4.95	CFM	468	702	936	1170	1404	1638	1872	2106
				NC	12	21	27	31	36	39	41	44
28 x 28	30 x 26 36 x 22	5.11	5.39	CFM	511	767	1022	1278	1533	1789	2044	2300
				NC	12	21	28	32	37	40	42	45
36 x 24	30 x 28	5.64	5.94	CFM	564	846	1128	1410	1692	1974	2256	2538
				NC	13	22	28	32	37	40	42	45
30 x 30	34 x 26	5.89	6.19	CFM	589	884	1178	1473	1767	2062	2356	2651
				NC	13	22	28	32	37	40	42	45

CFM - cubic feet per minute  
 VP - velocity pressure - inches w.g.  
 Neg. SP - negative static pressure - inches w.g.  
 NC - Noise Criteria values are based on 10 dB room absorption, re 10<sup>-12</sup> watts.  
 Core Velocity is in feet per minute.

**Performance Notes:**  
 1. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 - 2006.  
 2. Ak balancing factors are based on an Alnor velometer with a 2220A or 6070P Jet Probe. Position probe 1" (25) out from face of grille and take the average of several readings at various positions.  
 Airflow (CFM) = Average velocity (V<sub>k</sub>) x Ak.

