

PERFORMANCE DATA
Supply Grilles - Curved Blade
Model SGCB

Size		Nk Vel	100	150	200	250	300	350	400
06x04	Ac ft ² 0.17	CFM	17	25	34	42	50	58	67
		Ps	.006	.013	.024	.037	.053	.072	.093
		NC	-	-	-	13	18	22	26
	Throw		4-4-3-3	7-6-5-5	9-8-7-6	11-10-8-8	13-12-10-9	15-14-12-11	18-15-13-12
06x06	Ac ft ² 0.25	CFM	25	38	50	63	75	88	100
		Ps	.005	.011	.020	.031	.045	.062	.081
		NC	-	-	-	13	18	22	25
	Throw		6-6-5-4	10-8-7-7	13-11-10-9	16-14-12-11	19-17-14-13	22-19-17-16	25-22-19-18
08x08 10x06 12x05	Ac ft ² 0.42	CFM	45	67	89	112	134	156	178
		Ps	.004	.010	.018	.028	.040	.054	.070
		NC	-	-	-	13	18	22	25
	Throw		7-6-5-5	11-10-8-8	14-13-11-10	18-16-14-13	22-19-16-15	25-22-19-18	29-25-22-20
12x06	Ac ft ² 0.50	CFM	50	75	100	125	150	175	200
		Ps	.004	.010	.018	.027	.039	.054	.070
		NC	-	-	-	13	18	22	26
	Throw		7-6-5-5	10-9-7-7	13-12-10-9	16-14-12-12	20-17-15-16	23-20-17-16	26-23-20-18
10x08 14x06	Ac ft ² 0.56	CFM	56	84	111	139	167	194	222
		Ps	.004	.010	.017	.028	.038	.051	.067
		NC	-	-	-	13	18	22	25
	Throw		7-6-5-5	10-9-8-7	14-12-10-10	17-15-13-12	20-18-15-14	24-21-18-17	27-24-20-19
10x10 12x08 16x06	Ac ft ² 0.69	CFM	70	104	139	174	209	243	278
		Ps	.004	.009	.016	.025	.036	.049	.065
		NC	-	-	-	13	18	22	26
	Throw		8-7-6-6	12-11-9-8	16-14-12-11	20-18-15-14	24-21-18-17	28-25-21-20	32-28-24-22
14x08 18x06	Ac ft ² 0.77	CFM	78	117	156	195	233	272	311
		Ps	.004	.009	.016	.025	.036	.049	.064
		NC	-	-	-	14	18	22	26
	Throw		8-7-6-5	12-10-9-8	16-14-12-11	20-17-15-14	23-20-18-16	27-24-20-19	31-27-23-22
12x10 20x06	Ac ft ² 0.83	CFM	83	125	166	208	250	291	333
		Ps	.004	.009	.016	.024	.035	.048	.063
		NC	-	-	-	14	18	22	26
	Throw		8-7-6-6	12-10-9-8	16-14-12-11	20-17-15-14	24-21-18-17	28-24-21-20	32-28-24-22

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Size		Nk Vel	100	150	200	250	300	350	400
16x08 22x06	Ac ft ² 0.89	CFM	89	134	178	223	267	312	356
		Ps	.004	.009	.016	.025	.036	.049	.063
		NC	-	-	-	14	19	23	26
	Throw		9-7-6-6	12-11-9-8	17-14-12-11	21-18-15-14	25-22-19-17	29-25-22-20	33-29-25-23
14x10 28x05	Ac ft ² 0.97	CFM	97	146	194	243	292	340	389
		Ps	.004	.009	.015	.024	.035	.047	.062
		NC	-	-	-	14	19	23	26
	Throw		8-7-6-5	13-11-10-9	17-15-13-12	21-19-16-15	26-22-19-18	30-26-22-21	34-30-26-24
12x12 24x06 18x08	Ac ft ² 1.00	CFM	100	150	200	250	300	350	400
		Ps	9-8-7-6	13-11-10-9	18-15-13-12	22-19-16-15	26-23-20-18	31-27-23-21	35-31-26-25
		NC	-	-	-	14	19	23	26
	Throw		9-8-7-6	13-11-10-9	18-15-13-12	22-19-16-15	26-23-20-18	31-27-13-21	35-31-26-25
30x06 18x10	Ac ft ² 1.25	CFM	125	188	250	313	375	438	500
		Ps	.004	.008	.015	.023	.034	.046	.060
		NC	-	-	-	14	19	23	27
	Throw		9-8-7-6	14-12-11-10	19-17-14-13	24-21-18-17	28-25-21-20	33-29-25-23	38-33-28-26
14x14	Ac ft ² 1.36	CFM	136	204	272	241	409	477	545
		Ps	.004	.008	.015	.023	.033	.045	.059
		NC	-	-	-	15	19	23	27
	Throw		9-8-7-6	14-12-11-10	19-17-14-13	24-21-18-17	28-25-21-20	33-29-25-23	38-33-28-27
36x06 18x12	Ac ft ² 1.50	CFM	150	225	300	375	450	525	600
		Ps	.004	.008	.015	.023	.033	.045	.059
		NC	-	-	-	15	19	23	27
	Throw		10-9-8-7	15-13-11-10	20-18-15-14	25-22-19-18	30-27-23-21	36-31-27-25	41-36-30-28

PERFORMANCE NOTES FOR SERIES SGCB

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Ps Static pressure = $P_t - P_v$ (inches of water column)

Throw Throw distance in feet are for terminal velocities of 50 fpm for 1W, 2W, 3W & 4W air flow

Nk Vel Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in feet per minute

NC Noise Criteria based on a room absorption of 10 dB, re: 10^{-12} watts [NC less than 10 (-)]

Ac Actual Core Free Area in square feet

PERFORMANCE DATA
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Size		Nk Vel	100	150	200	250	300	350	400
22x10	Ac ft ² 1.53	CFM	153	230	306	383	459	536	612
		Ps	.004	.008	.015	.023	.033	.045	.059
		NC	-	-	-	15	20	24	27
	Throw		10-9-8-7	15-13-12-11	21-18-15-14	26-22-19-18	31-27-23-22	36-31-27-25	41-36-31-29
30x08 24x10	Ac ft ² 1.67	CFM	166	249	333	416	499	583	666
		Ps	.004	.008	.015	.024	.034	.046	.060
		NC	-	-	-	15	20	24	28
	Throw		11-9-8-7	16-14-12-11	21-19-16-15	27-23-20-19	32-28-24-23	38-33-28-26	43-38-32-30
16x16	Ac ft ² 1.78	CFM	178	267	356	445	533	622	711
		Ps	.004	.008	.014	.022	.032	.044	.057
		NC	-	-	-	15	20	24	27
	Throw		10-9-8-7	15-13-11-10	20-18-15-14	25-22-19-18	31-27-23-21	36-31-27-25	41-36-30-28
24x12 36x08 48x06	Ac ft ² 2.00	CFM	200	300	400	500	600	700	800
		Ps	.004	.008	.014	.022	.032	.044	.057
		NC	-	-	-	15	20	24	27
	Throw		11-10-9-8	17-15-13-12	23-20-17-16	29-25-21-20	34-30-26-24	40-35-30-28	46-40-34-32
18x18	Ac ft ² 2.25	CFM	224	337	449	562	675	787	900
		Ps	.003	.008	.014	.022	.031	.043	.056
		NC	-	-	-	15	20	24	28
	Throw		11-9-8-7	16-14-12-11	22-19-16-15	27-24-20-19	32-28-24-23	38-33-28-27	43-38-32-30
30x12 36x10	Ac ft ² 2.50	CFM	250	375	500	625	750	875	1000
		Ps	.004	.008	.014	.022	.032	.043	.057
		NC	-	-	-	16	21	25	28
	Throw		13-11-9-9	19-17-14-13	25-22-19-18	31-28-24-22	38-33-28-26	44-39-33-31	50-44-38-35
20x20	Ac ft ² 2.78	CFM	278	417	555	694	833	971	1110
		Ps	.003	.008	.014	.021	.031	.042	.055
		NC	-	-	-	16	21	25	28
	Throw		11-10-9-8	17-15-13-12	23-20-17-16	29-25-21-20	34-30-26-24	40-35-30-28	46-40-34-32
24x18 36x12	Ac ft ² 3.00	CFM	300	450	600	750	900	1050	1200
		Ps	.003	.008	.014	.021	.031	.042	.055
		NC	-	-	-	16	21	25	28
	Throw		14-12-10-9	20-16-15-14	27-24-20-19	34-30-25-24	41-35-30-28	47-41-35-33	54-47-41-38

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Size		Nk Vel	100	150	200	250	300	350	400
22x22 24x20 48x10	Ac ft ² 3.36	CFM	336	504	672	841	1009	1177	1345
		Ps	.003	.008	.014	.021	.031	.042	.054
		NC	-	-	11	16	21	25	28
	Throw		12-11-9-8	18-16-14-13	24-21-18-17	30-26-23-21	36-32-27-25	42-37-32-30	48-42-36-34
24x24 36x16 48x12	Ac ft ² 4.00	CFM	400	600	800	1000	1200	1400	1600
		Ps	.003	.008	.003	.021	.030	.041	.054
		NC	-	-	11	17	21	25	29
	Throw		13-11-10-9	19-17-14-13	25-22-19-18	32-28-24-22	38-33-29-27	44-39-33-31	51-44-38-35
30x24 36x20	Ac ft ² 5.00	CFM	500	750	1000	1250	1500	1750	2000
		Ps	.003	.007	.013	.021	.030	.041	.053
		NC	-	-	12	17	23	26	29
	Throw		17-15-13-12	25-22-19-18	34-29-25-23	42-37-31-29	50-44-38-35	59-51-44-41	67-59-50-47
28x28	Ac ft ² 5.44	CFM	546	818	1091	1363	1635	1908	2180
		Ps	.003	.007	.013	.021	.030	.040	.053
		NC	-	-	12	18	22	26	30
	Throw		14-12-10-10	21-18-16-15	28-24-21-19	35-30-26-24	41-36-31-29	48-42-36-34	55-48-41-39
36x30	Ac ft ² 7.50	CFM	752	1127	1501	1876	2251	2625	3000
		Ps	.003	.007	.013	.020	.029	.040	.052
		NC	-	-	13	18	25	27	30
	Throw		19-17-14-13	30-26-22-21	40-35-30-28	50-44-37-35	60-52-45-42	70-61-52-49	80-70-60-56
36x32 48x24 34x34	Ac ft ² 8.00	CFM	800	1200	1600	2000	2400	2800	3200
		Ps	.003	.007	.013	.020	.029	.040	.052
		NC	-	-	13	19	23	27	31
	Throw		19-17-14-13	31-17-23-22	41-36-31-29	51-45-38-36	62-54-46-43	72-63-54-50	82-72-62-57

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Throw Throw distance in feet are for terminal velocities of 50 fpm for 1W, 2W, 3W & 4W air flow

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Ac Actual Core Free Area in square feet

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Size		Nk Vel	100	200	300	400	500	600	700
36x36	Ac ft ² 9.00	CFM	900	1350	1800	2250	2700	3150	3600
		Ps	.003	.007	.013	.020	.029	.039	.051
		NC	-	-	13	19	23	27	31
	Throw		14-12-11-10	24-21-18-17	32-28-24-22	40-35-30-28	48-42-36-33	56-49-42-39	64-56-48-45
38x38	Ac ft ² 10.02	CFM	1000	1502	2003	2505	3007	3508	4010
		Ps	.003	.007	.013	.020	.029	.039	.051
		NC	-	-	13	19	24	28	31
	Throw		14-12-10-10	25-22-18-17	33-29-25-23	41-36-31-29	49-43-37-34	57-50-43-40	66-57-49-46
40x40	Ac ft ² 11.11	CFM	1110	1665	2220	2775	3330	3885	4440
		Ps	.003	.007	.013	.020	.029	.039	.051
		NC	-	-	14	19	24	28	31
	Throw		14-12-10-10	25-22-19-18	34-30-25-24	42-37-32-30	51-44-38-35	59-52-44-41	68-59-51-47
48x36	Ac ft ² 12.00	CFM	1200	1800	2400	3000	3600	4200	4800
		Ps	.003	.007	.013	.020	.029	.039	.051
		NC	-	-	14	20	24	28	32
	Throw		19-17-14-13	37-32-27-26	49-43-37-34	61-53-46-43	73-64-55-51	85-75-64-60	97-85-73-68
48x42	Ac ft ² 14.00	CFM	1400	2100	2800	3500	4200	4800	5600
		Ps	.003	.007	.013	.020	.029	.039	.051
		NC	-	-	14	20	25	29	32
	Throw		19-17-14-13	39-34-29-27	52-46-39-36	65-57-49-46	78-68-59-55	91-80-68-64	104-91-78-73
48x48	Ac ft ² 16.00	CFM	1600	2400	3200	4000	4800	5600	6400
		Ps	.003	.007	.013	.020	.028	.039	.050
		NC	-	-	15	20	25	29	32
	Throw		13-11-10-9	28-25-21-20	38-33-28-26	47-41-35-33	56-49-42-39	66-58-48-46	75-66-56-53

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