

SERIES XG-SGSP PERFORMANCE DATA
MODEL XG-SGSP

Size (in)	NK Vel	100	150	200	250	300	350	400	450	500	550	600
Neck Area ft ²	Ps	.005	.010	.018	.029	.042	.058	.075	.094	.117	.140	.166
06x06 .250	CFM	25	38	50	63	75	88	100	113	125	138	150
	Throws	2-7	3-10	5-12	6-13	7-15	9-16	10-17	10-18	11-19	12-20	12-21
	NC	-	-	-	14	20	24	28	32	35	38	40
08x08 .444	CFM	44	67	89	111	133	155	178	200	222	244	266
	Throws	2-10	5-14	7-16	8-18	10-20	12-21	13-23	14-24	15-25	15-27	16-28
	NC	-	-	-	17	22	27	31	34	37	40	43
09x09 .563	CFM	56	84	113	141	169	197	225	253	282	310	338
	Throws	2-11	5-16	7-18	9-20	11-22	13-24	15-25	16-27	16-28	17-30	18-31
	NC	-	-	11	18	23	28	32	35	38	41	44
12x06 .500	CFM	50	75	100	125	150	175	200	225	250	275	300
	Throws	2-11	5-15	7-17	9-19	11-21	12-22	14-24	15-25	15-27	16-28	17-29
	NC	-	-	-	17	23	27	31	35	38	41	43
12x12 1.000	CFM	100	150	200	250	300	350	400	450	500	550	600
	Throws	3-15	7-21	10-24	12-27	15-29	17-32	10-24	21-36	22-38	23-40	24-42
	NC	-	-	13	20	26	30	34	38	41	44	46
15x12 1.250	CFM	125	188	250	313	375	438	500	563	625	688	750
	Throws	3-17	8-23	11-27	14-30	17-33	20-35	22-38	23-42	24-42	26-45	27-46
	NC	-	-	14	21	27	31	35	39	42	45	47
15x15 1.563	CFM	156	234	313	391	469	547	625	703	782	860	938
	Throws	4-19	9-26	12-30	16-34	19-37	22-40	25-42	26-45	27-47	29-50	30-52
	NC	-	-	15	22	28	32	36	40	43	46	48
18x12 1.500	CFM	150	225	300	375	450	525	600	675	750	825	900
	Throws	4-18	8-25	12-29	15-33	18-36	21-39	24-42	25-44	27-46	28-49	29-51
	NC	-	-	15	22	27	32	36	39	43	45	48
18x18 2.250	CFM	225	338	450	563	675	788	900	1013	1125	1238	1350
	Throws	5-22	10-31	15-36	19-40	22-44	26-48	29-51	31-54	33-57	34-60	36-62
	NC	-	11	17	24	29	34	38	41	44	47	50
21x21 3.063	CFM	306	459	613	766	919	1072	1225	1378	1532	1685	1838
	Throws	5-26	12-36	17-42	22-47	26-51	31-56	34-59	36-63	38-66	40-70	42-73
	NC	-	12	18	25	30	35	39	43	46	49	51
24x12 2.000	CFM	200	300	400	500	600	700	800	900	1000	1100	1200
	Throws	4-21	10-29	14-34	18-36	21-42	25-45	28-48	29-51	31-54	32-56	34-59
	NC	-	-	16	23	29	33	37	41	44	47	49

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Neck Area ft ²	Ps	.005	.010	.018	.029	.042	.058	.075	.094	.117	.140	.166
24x24 4.000	CFM	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400
	Throws	6-30	14-42	20-48	25-54	30-59	35-63	39-68	42-72	44-76	46-80	48-83
	NC	-	11	20	26	32	36	40	44	47	50	52
27x27 5.063	CFM	506	759	1013	1266	1519	1772	2025	2278	2532	2785	3038
	Throws	7-34	15-47	22-54	28-60	34-66	39-71	44-76	47-81	49-85	52-90	54-94
	NC	-	12	21	27	33	37	41	45	48	51	53
30x24 5.000	CFM	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
	Throws	7-33	15-46	22-54	28-60	33-66	39-71	44-76	46-80	49-85	51-89	54-93
	NC	-	12	20	27	33	37	41	45	48	51	53
30x30 6.250	CFM	625	938	1250	1563	1875	2188	2500	2813	3125	3438	3750
	Throws	4-31	10-47	18-60	26-67	31-73	36-79	42-85	47-90	52-95	57-100	60-104
	NC	-	-	12	19	24	29	33	36	40	42	45

PERFORMANCE NOTES FOR SERIES XG-SGSP

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

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Nk Vel Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured 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 150 and 50 fpm respectively

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands