

**SERIES XG-RL-SP PERFORMANCE  
 DATA MODEL XG-RL-SP**

Size	Nk Vel	300	400	500	600	700	800	900	1000
	Pv	.006	.010	.016	.022	.031	.04	.050	.062
09x06	CFM	113	150	188	225	263	300	338	375
	Pt	.042	.075	.116	.168	.228	.298	.376	.465
	Throws	6-20	9-27	11-32	14-35	16-38	18-40	20-42	22-45
	NC	-	-	13	19	25	30	34	38
12x06	CFM	150	200	250	300	350	400	450	500
	Pt	.038	.068	.106	.152	.207	.271	.341	.422
	Throws	9-24	11-30	15-36	17-39	21-42	23-45	24-47	27-50
	NC	-	-	13	19	25	30	34	38
15x06	CFM	188	250	313	375	438	500	563	625
	Pt	.037	.063	.098	.141	.192	.250	.317	.391
	Throws	11-29	14-35	18-40	22-44	26-47	28-51	29-53	32-57
	NC	-	-	14	20	26	31	35	39
18x06	CFM	225	300	375	450	525	600	675	750
	Pt	.033	.059	.092	.133	.180	.236	.299	.369
	Throws	14-34	17-40	22-45	26-48	30-52	33-56	34-59	36-63
	NC	-	-	15	21	17	31	36	39
24x06	CFM	300	400	500	600	700	800	900	1000
	Pt	.030	.053	.083	.120	.164	.213	.271	.334
	Throws	17-39	23-45	28-51	32-56	35-60	36-64	40-68	41-72
	NC	-	-	14	20	25	30	35	38
30x06	CFM	375	500	625	750	875	1000	1125	1250
	Pt	.028	.049	.078	.112	.151	.198	.251	.309
	Throws	21-45	28-51	33-57	36-63	39-68	41-72	45-76	46-81
	NC	-	-	14	20	25	30	34	38
36x06	CFM	450	600	750	900	1050	1200	1350	1500
	Pt	.026	.047	.073	.105	.143	.186	.236	.291
	Throws	26-50	33-58	36-64	40-71	44-76	47-82	51-87	52-90
	NC	-	-	16	22	27	32	36	40
48x06	CFM	600	800	1000	1200	1400	1600	1800	2000
	Pt	.024	.043	.066	.095	.129	.169	.214	.264
	Throws	30-54	36-65	41-71	45-80	48-84	53-92	57-98	59-101
	NC	-	11	17	24	29	34	38	42

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	Pv	.006	.010	.016	.022	.031	.04	.050	.062
60x06	<b>CFM</b>	750	1000	1250	1500	1750	2000	2250	2500
	<b>Pt</b>	.022	.039	.061	.088	.120	.157	.199	.244
	<b>Throws</b>	36-62	41-71	46-80	51-88	54-94	58-101	62-107	65-113
	<b>NC</b>	-	12	19	26	31	36	40	44

Data based on units tested at 0° Blade Deflection. See chart below for other Blade Deflections.

Deflection	NC	Throws	Pt
15°	+ 4	x .85	x 1.2
30°	+ 8	x .69	x 1.8

**PERFORMANCE NOTES FOR SERIES XG-RL-SP**

*All Data was tested in accordance with ANSI/ASHRAE 70-2006.*

**DEFINITION OF UNITS:**

*CFM Air volume in cubic feet per minute*

*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<sup>-12</sup> watts [ NC less than 10 (-)]*

*Throw Throw distance in feet are for terminal velocities of 150 and 50 fpm respectively*

*Ps Static pressure is in inches of water*

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Size	Nk Vel	300	400	500	600	700	800	900	1000
	Pv	.006	.010	.016	.022	.031	.04	.050	.062
20x10	CFM	417	556	695	834	973	1112	1250	1389
	Pt	.026	.047	.074	.107	.145	.189	.240	.292
	Throws	22-46	30-53	34-59	38-64	40-70	44-75	46-78	48-83
	NC	-	-	16	22	27	32	36	40
30x10	CFM	625	834	1042	1250	1459	1667	1875	2084
	Pt	.023	.042	.065	.094	.128	.167	.211	.261
	Throws	28-54	35-63	40-70	23-77	28-83	52-88	54-93	57-99
	NC	-	10	17	23	28	30	38	41
40x10	CFM	834	1112	1389	1667	1945	2223	2500	2778
	Pt	.021	.037	.058	.083	.114	.149	.188	.233
	Throws	34-63	41-72	46-81	52-90	57-96	60-101	63-107	65-114
	NC	-	11	18	24	29	32	39	42
50x10	CFM	1042	1389	1737	2084	2431	2778	3125	3473
	Pt	.019	.034	.053	.077	.105	.137	.173	.213
	Throws	41-71	47-82	53-92	58-101	63-108	68-116	71-123	75-130
	NC	-	12	29	25	31	36	40	44
60x10	CFM	1250	1667	2084	2500	2917	3334	3750	4167
	Pt	.018	.033	.051	.075	.101	.132	.167	.207
	Throws	44-77	51-90	58-100	63-111	69-119	74-126	77-135	82-142
	NC	-	13	20	26	31	37	40	45
70x10	CFM	1459	1945	2431	2917	3403	3889	4375	4862
	Pt	.017	.031	.049	.070	.095	.124	.157	.194
	Throws	48-84	57-98	63-108	69-119	75-129	80-137	84-146	89-153
	NC	-	14	21	27	32	37	41	45
20x12	CFM	500	667	834	1000	1167	1334	1500	1667
	Pt	.024	.043	.066	.095	.129	.169	.214	.264
	Throws	27-50	33-58	38-64	41-70	44-76	47-81	50-86	52-90
	NC	-	-	16	23	38	33	37	41
30x12	CFM	750	1000	1250	1500	1750	2000	2250	2500
	Pt	.022	.039	.061	.088	.120	.157	.199	.244
	Throws	34-60	40-70	45-77	48-84	52-92	57-98	59-104	62-110
	NC	-	11	18	24	29	34	38	42
40x12	CFM	1000	1334	1667	2000	2334	2667	3000	3334
	Pt	.019	.035	.054	.079	.108	.140	.178	.219
	Throws	40-70	47-81	52-90	57-99	62-106	66-113	70-120	74-128
	NC	-	12	19	25	31	35	40	43

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Size	Nk Vel	300	400	500	600	700	800	900	1000
	Pv	.006	.010	.016	.022	.031	.04	.050	.062
50x12	CFM	1250	1667	2084	2500	2917	3334	3750	4167
	Pt	.018	.032	.050	.073	.098	.128	.163	.201
	Throws	45-77	52-89	57-100	63-108	68-74	74-125	77-134	81-141
	NC	-	13	20	26	31	36	41	44
60x12	CFM	1500	2000	2500	3000	3500	4000	4500	5000
	Pt	.017	.031	.485	.070	.095	.124	.157	.194
	Throws	50-84	57-98	63-110	69-118	74-130	81-137	84-147	90-154
	NC	-	14	21	27	32	37	42	45
70x12	CFM	1750	2334	2917	3500	4084	4667	5250	5834
	Pt	.016	.029	.046	.066	.089	.116	.147	.182
	Throws	53-92	62-106	69-118	75-130	81-141	87-150	92-159	96-167
	NC	-	15	22	28	33	38	42	46

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**PERFORMANCE NOTES FOR SERIES XG-RL-SP**

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**DEFINITION OF UNITS:**

*CFM* Air volume in cubic feet per minute

*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<sup>-12</sup> watts [ NC less than 10 (-)]

*Throw* Throw distance in feet are for terminal velocities of 150 fpm and 50 fpm respectively

*Ps* Static pressure is in inches of water

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Size	Nk Vel	300	400	500	600	700	800	900	1000
	Pv	.006	.010	.016	.022	.031	.04	.050	.062
15x15	CFM	469	625	782	938	1094	1250	1407	1563
	Pt	.024	.044	.068	.097	.133	.173	.219	.271
	Throws	23-48	30-56	36-63	40-69	42-74	46-78	48-83	51-88
	NC	-	-	16	23	28	33	37	41
20x15	CFM	625	834	1042	1250	1459	1667	1875	2084
	Pt	.021	.042	.064	.092	.127	.165	.210	.257
	Throws	28-56	35-64	41-72	46-80	50-86	53-92	56-96	59-102
	NC	-	10	17	24	29	33	37	42
30x15	CFM	938	1250	1563	1875	2188	2500	2813	3125
	Pt	.020	.037	.057	.081	.112	.146	.184	.227
	Throws	33-63	40-72	47-82	53-90	57-98	60-105	63-110	68-117
	NC	-	11	18	25	30	34	38	43
35x15	CFM	1094	1459	1823	2188	2553	2917	3282	3646
	Pt	.019	.034	.053	.077	.105	.137	.173	.213
	Throws	39-70	46-81	19-92	59-101	64-110	68-118	71-123	76-131
	NC	-	12	19	26	30	35	39	43
40x15	CFM	1250	1667	2084	2500	2917	3334	3750	4167
	Pt	.030	.053	.083	.120	.164	.213	.271	.334
	Throws	17-39	23-45	28-51	32-56	35-60	36-64	40-68	41-72
	NC	-	-	14	20	25	30	35	38
50x15	CFM	1563	2084	2605	3125	3646	4167	4688	5209
	Pt	.017	.030	.047	.067	.091	.119	.154	.186
	Throws	51-87	58-100	65-112	71-123	77-132	82-142	87-150	92-159
	NC	-	14	21	27	32	37	41	45
60x15	CFM	1875	2500	3125	3750	4375	5000	5625	6250
	Pt	.016	.029	.045	.065	.088	.115	.146	.179
	Throws	56-95	64-110	71-122	78-134	84-144	89-154	95-165	100-176
	NC	-	14	22	28	33	38	42	46
70x15	CFM	2188	2917	3646	4375	5105	5834	6563	7292
	Pt	.016	.027	.043	.061	.083	.109	.137	.170
	Throws	59-102	69-118	76-132	84-144	90-156	96-167	102-178	108-186
	NC	-	15	23	28	34	39	43	47

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