

SERIES XG-7650 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	1200	
		Pv	.006	.010	.016	.022	.031	.040	.062	.090	
12 x 12	6 x 6	CFM	75	100	125	150	175	200	250	300	
		Pt	.017	.031	.048	.070	.095	.124	.194	.279	
		NC	<15	<15	<15	16	21	25	30	36	
		Throw	4-Way*	1-1-3	1-2-3	1-2-4	2-3-5	2-3-6	2-3-6	3-4-7	3-5-8
			4-Way	1-2-5	2-3-6	3-4-7	3-5-7	4-6-8	4-6-8	5-7-9	6-7-10
			3-Way	2-3-5	2-4-7	3-4-7	4-5-8	4-6-9	5-7-9	6-7-10	7-8-11
			2-Way	2-3-6	3-4-7	3-5-8	4-6-9	4-7-10	5-7-10	6-8-11	7-9-13
			1-Way	4-7-10	6-8-11	7-9-13	8-10-14	9-11-15	9-11-16	10-13-18	11-14-20
		8 x 8	CFM	135	180	220	265	310	355	445	535
	Pt		.020	.036	.054	.079	.108	.141	.222	.321	
	NC		<15	<15	<15	16	21	25	30	36	
	Throw		4-Way*	1-1-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-5-8	4-6-8
			4-Way	2-3-5	2-3-6	3-4-7	3-5-8	4-6-8	5-6-9	6-7-10	6-8-11
			3-Way	2-3-6	2-4-7	3-5-8	4-6-8	4-6-9	5-7-10	6-8-11	7-8-12
			2-Way	2-3-6	3-4-8	3-5-9	4-6-9	5-7-10	5-8-11	7-9-12	8-9-13
			1-Way	4-7-10	6-8-12	8-9-13	8-10-15	9-11-16	10-12-17	11-13-19	12-15-21
	24 x 24		6 x 6	CFM	75	100	125	150	175	200	250
		Pt		.017	.031	.048	.070	.095	.124	.194	.279
NC		<15		<15	<15	16	21	25	30	36	
Throw		4-Way*		1-1-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-5-8	4-6-8
		4-Way		2-3-5	2-3-6	3-4-7	3-5-8	4-6-8	5-6-9	6-7-10	6-8-11
		3-Way		2-3-6	2-4-7	3-5-8	4-6-8	4-6-9	5-7-10	6-8-11	7-8-12
		2-Way		2-3-6	3-4-8	3-5-9	4-6-9	5-7-10	5-8-11	7-9-12	8-9-13
		1-Way		4-7-10	6-8-12	8-9-13	8-10-15	9-11-16	10-12-17	11-13-19	12-15-21
8 x 8		CFM		135	180	220	265	310	355	445	535
		Pt	.020	.036	.054	.079	.108	.141	.222	.321	
		NC	<15	<15	<15	16	21	25	30	36	
		Throw	4-Way*	1-2-4	2-2-5	2-3-6	2-4-7	3-4-8	3-5-9	4-6-10	5-7-11
			4-Way	2-3-7	3-5-8	4-6-9	5-7-10	5-8-11	6-8-12	8-9-13	8-10-14
			3-Way	2-4-7	3-5-9	4-6-10	5-7-11	6-9-12	7-9-13	8-10-14	9-11-16
			2-Way	3-4-8	4-5-10	4-7-11	5-8-12	6-9-13	7-10-14	9-11-16	10-12-18
			1-Way	6-9-14	8-11-16	10-12-18	11-14-19	12-15-21	13-16-22	14-18-25	16-19-27

CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

XG-7600/XG-7650

SERIES XG-7650 PERFORMANCE DATA

Module	Neck Size	<i>fpm Neck Velocity</i>	300	400	500	600	700	800	1000	1200	
		<i>Pv</i>	.006	.010	.016	.022	.031	.040	.062	.090	
24 x 24	10 x 10	CFM	210	280	345	415	485	555	695	835	
		Pt	.023	.040	.061	.089	.089	.159	.249	.359	
		NC	<15	<15	<15	20	26	29	36	42	
		Throw	4-Way*	2-2-5	2-3-6	3-4-8	3-5-9	4-5-11	4-6-11	5-8-13	6-9-14
			4-Way	3-4-9	4-6-10	5-7-12	6-8-13	7-10-14	8-10-15	9-12-16	10-13-18
			3-Way	3-5-9	4-6-11	5-8-13	6-9-14	7-11-15	8-11-18	10-13-18	11-14-20
			2-Way	3-5-10	4-7-13	6-8-14	7-10-16	8-12-17	9-13-18	11-14-20	13-16-22
	1-Way		7-12-17	10-14-20	13-16-22	14-17-24	15-18-26	16-20-28	18-22-31	20-24-34	
	12 x 12	CFM	300	400	500	600	700	800	1000	1200	
		Pt	.023	.040	.063	.090	.123	.160	.250	.360	
		NC	<15	<15	<15	18	23	28	34	40	
		Throw	4-Way*	2-3-6	2-4-7	3-5-9	4-6-11	4-6-13	5-7-14	6-9-15	7-11-17
			4-Way	3-5-10	5-7-12	6-9-14	7-10-15	8-12-16	9-12-18	11-14-20	12-15-22
			3-Way	4-6-11	5-7-14	6-9-15	7-11-17	9-13-18	10-14-19	12-15-22	14-17-24
			2-Way	4-6-12	5-8-15	7-10-17	8-12-19	9-14-20	11-15-22	13-17-24	15-19-26
	1-Way		9-14-21	12-17-24	15-19-27	17-21-29	18-22-31	19-24-34	22-27-38	24-29-41	
	14 x 14	CFM	410	545	680	815	955	1090	1360	1630	
		Pt	.023	.040	.062	.089	.121	.159	.248	.356	
		NC	<15	<15	<15	21	28	33	41	49	
		Throw	4-Way*	2-3-6	3-4-9	4-5-11	4-6-13	5-7-15	6-9-16	7-11-18	9-13-19
			4-Way	4-6-12	5-8-15	7-10-16	8-12-18	9-14-19	11-15-21	13-16-23	15-18-25
			3-Way	4-7-13	6-9-16	7-11-18	9-13-20	10-15-21	12-16-23	14-18-25	16-20-28
			2-Way	5-7-14	6-9-18	8-12-20	9-14-22	11-16-24	12-18-25	16-20-28	18-23-31
	1-Way		10-16-24	14-20-28	18-23-31	20-24-34	21-26-37	23-28-29	25-31-44	28-34-48	
	16 x 16	CFM	535	710	890	1070	1245	1425	1780	2135	
		Pt	.027	.047	.074	.108	.146	.191	.298	.428	
		NC	<15	<15	15	23	30	35	42	50	
		Throw	4-Way*	2-4-7	3-5-10	4-6-12	5-7-15	6-9-17	7-10-18	8-12-20	10-15-22
4-Way			4-7-14	6-9-17	8-11-19	9-14-20	11-16-22	12-17-23	15-19-26	17-20-29	
3-Way			5-7-15	7-10-18	8-12-20	10-15-22	12-17-24	13-18-26	16-20-29	18-22-32	
2-Way			5-8-16	7-11-20	9-13-23	11-16-25	12-19-27	14-20-29	18-23-32	20-25-35	
1-Way	12-18-27		16-22-32	20-25-35	22-27-39	24-30-42	26-32-45	29-35-50	32-39-55		

**CEILING
DIFFUSERS**
**PERFORATED
CEILING DIFFUSERS**
XG-7600/XG-7650

PERFORMANCE NOTES FOR SERIES XG-7500/XG-7550/XG-7600/XG-7650

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

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

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

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

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