

SERIES 7000 PERFORMANCE DATA MODEL 7000

Nominal Neck Size	fpm Neck Velocity Pv	200	300	400	500	600	700	800	900	
		.003	.006	.010	.016	.022	.030	.040	.050	
18 x 6	CFM	150	225	300	375	450	525	600	675	
	Pt	.016	.050	.060	.100	.140	.190	.250	.310	
	NC	<	<	20	25	30	35	40	40	
	Throw	4-Way	3-4-5	3-5-6	4-6-8	6-8-11	7-10-13	8-12-15	9-14-18	10-15-20
		3-Way	3-4-5	4-6-8	6-8-11	7-10-13	8-12-16	9-14-18	11-16-21	12-18-24
2-Way		4-6-8	6-8-11	7-11-14	9-13-17	11-16-21	12-18-24	14-21-28	18-27-33	
1-Way		5-7-9	6-9-12	8-12-16	11-16-21	13-19-25	15-22-29	17-25-33	19-28-38	
12 x 12	CFM	200	300	400	500	600	700	800	900	
	Pt	.016	.045	.066	.100	.150	.200	.260	.330	
	NC	<	20	25	25	30	35	40	40	
	Throw	4-Way	3-5-6	4-6-8	5-7-10	6-9-12	8-12-15	9-13-17	10-15-20	12-17-23
		3-Way	3-5-6	5-7-9	6-9-12	8-12-15	9-14-18	11-16-22	13-19-25	14-20-27
2-Way		5-7-9	6-9-12	8-12-16	11-16-21	12-18-24	15-22-29	17-25-33	18-27-36	
1-Way		6-9-12	8-12-16	10-15-20	12-18-24	15-22-29	17-25-33	18-27-36	21-31-42	
14 x 14	CFM	270	410	545	680	815	950	1090	1225	
	Pt	.018	.040	.070	.110	.160	.220	.280	.360	
	NC	<	20	25	28	33	37	40	43	
	Throw	4-Way	4-5-7	4-6-9	6-9-12	7-11-14	9-14-18	10-15-20	12-18-24	14-21-28
		3-Way	4-5-9	5-8-11	6-10-13	8-13-16	10-15-20	11-17-23	13-19-27	16-23-31
2-Way		5-7-10	6-9-13	8-12-18	11-17-22	12-19-26	16-23-31	18-26-36	19-29-39	
1-Way		6-9-12	8-12-18	10-15-22	13-19-26	15-23-30	17-25-35	19-28-39	21-31-43	
15 x 15	CFM	310	470	625	780	935	1090	1250	1405	
	Pt	.018	.050	.070	.110	.160	.210	.280	.350	
	NC	<	20	25	30	35	40	40	45	
	Throw	4-Way	4-6-8	5-7-10	7-10-13	8-12-16	10-15-20	12-17-23	13-19-26	15-23-30
		3-Way	5-7-9	6-9-12	8-12-15	9-14-18	11-16-22	13-19-26	15-23-30	18-26-35
2-Way		6-9-12	9-14-15	12-17-20	13-19-26	16-22-31	18-27-36	20-30-40	23-33-43	
1-Way		7-11-14	9-14-18	11-18-22	14-21-28	16-24-32	19-28-38	21-31-42	23-34-45	
16 x 16	CFM	355	590	710	885	1060	1240	1415	1595	
	Pt	.018	.047	.070	.109	.155	.212	.280	.350	
	NC	<	20	25	30	35	40	40	45	
	Throw	4-Way	5-7-9	6-8-11	8-10-14	9-13-18	10-15-21	13-18-27	14-20-28	16-22-31
		3-Way	5-7-11	6-9-13	8-13-17	10-15-22	13-19-26	15-22-30	18-25-36	19-29-39
2-Way		6-10-12	9-14-16	11-17-24	14-21-28	17-25-32	19-26-34	21-34-40	24-34-44	
1-Way		7-10-16	9-15-18	12-18-26	15-22-32	18-27-36	19-28-37	24-35-42	26-36-46	
18 x 18	CFM	450	675	900	1125	1350	1575	1800	2025	
	Pt	.019	.050	.070	.110	.160	.220	.290	.360	
	NC	<	20	25	30	35	40	40	45	
	Throw	4-Way	5-7-10	6-9-12	8-12-16	10-15-20	12-18-24	14-21-28	16-24-32	18-27-36
		3-Way	5-7-12	7-11-14	9-14-18	11-16-22	13-19-26	16-24-31	18-27-36	21-31-41
2-Way		8-12-18	10-15-20	13-19-26	16-24-32	20-29-39	23-34-45	26-39-52	29-43-58	
1-Way		9-14-22	11-16-24	15-23-30	18-27-36	22-32-43	25-37-49	28-42-56	30-45-60	

SERIES 7000 PERFORMANCE DATA MODEL 7000R

Nominal Neck Size	fpm Neck Velocity	200	300	400	500	600	700	800
	Pv	.013	.030	.050	.080	.110	.150	.200
6 x 6	CFM	50	75	100	125	150	175	200
	NC	<	<	<	<	20	25	30
8 x 6	CFM	65	100	130	165	200	230	265
	NC	<	<	<	<	20	25	30
8 x 8	CFM	90	130	175	220	265	310	350
	NC	<	<	<	20	25	30	35
9 x 9	CFM	110	170	225	280	335	390	450
	NC	<	<	<	20	25	30	35
10 x 6	CFM	80	125	165	205	245	290	330
	NC	<	<	<	20	25	30	35
10 x 10	CFM	140	210	275	345	415	485	550
	NC	<	<	<	20	25	30	35
12 x 6	CFM	100	150	200	250	300	350	400
	NC	<	<	<	20	25	30	35
12 x 12	CFM	200	300	400	500	600	700	800
	NC	<	<	<	20	25	30	35
15 x 15	CFM	310	470	625	780	935	1090	1250
	NC	<	<	20	25	30	35	40
18 x 18	CFM	450	675	900	1125	1350	1575	1800
	NC	<	<	20	25	30	35	40
20 x 20	CFM	555	830	1110	1385	1660	1940	2215
	NC	<	<	20	28	33	38	42
22 x 10	CFM	305	455	610	760	910	1065	1215
	NC	<	<	20	25	30	35	40
22 x 22	CFM	670	1010	1345	1680	2015	2350	2690
	NC	<	<	20	28	33	38	42
34 x 22	CFM	1040	1555	2075	2595	3115	3635	4150
	NC	<	<	20	28	35	40	45
46 x 22	CFM	1405	2105	2810	3510	4210	4915	5615
	NC	<	<	23	30	38	42	45

CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

7000/7000R

PERFORMANCE NOTES FOR SERIES 7000

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 Cataloged throw is horizontal distances in feet to the terminal velocities of 150, 100 and 50 fpm with supply air temp 20° F below room air temp

NC Noise criteria, 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