

# Model SDMP3 Security Diffuser - Supply Performance Data

## 3/16" Diameter holes on 1/4" Staggered Centers

Nominal Neck Size		Neck Velocity	200	300	400	500	600	700	800	900																
W	H	Static Pressure	0.01	0.03	0.05	0.08	0.12	0.16	0.21	0.26																
6"	6"	CFM	50	80	100	130	150	180	200	230																
		NC	<20	<20	<20	20	26	31	35	42																
		4 way throw	1	2	4	2	3	6	3	4	8	3	5	10	4	6	11	5	7	12	5	8	13	6	9	14
		3 way throw	2	2	5	3	4	8	3	5	9	4	6	12	5	7	14	6	9	15	6	9	16	7	11	17
		2 way throw	2	3	5	3	4	9	4	5	11	5	7	14	5	8	16	7	10	17	7	11	18	8	13	20
		1 way throw	3	4	8	4	6	12	5	8	15	7	10	20	8	12	23	9	14	25	10	15	26	12	18	28
8"	8"	CFM	90	130	180	220	270	310	360	400																
		NC	<20	<20	<20	24	30	34	39	44																
		4 way throw	2	3	5	3	4	8	3	5	10	4	6	13	5	8	15	6	9	16	7	10	17	8	12	18
		3 way throw	2	3	6	3	5	9	4	6	13	5	8	16	6	10	18	7	11	20	9	13	21	9	14	23
		2 way throw	2	4	7	4	5	11	5	7	15	6	9	18	7	11	21	8	13	23	10	15	25	11	16	26
		1 way throw	3	5	10	5	8	15	7	10	21	9	13	26	10	16	30	12	18	32	14	21	35	15	23	37
10"	10"	CFM	140	210	280	350	420	490	560	630																
		NC	<20	<20	20	27	32	37	42	46																
		4 way throw	2	3	7	3	5	10	4	7	13	5	8	16	7	10	19	8	11	20	9	13	22	10	15	23
		3 way throw	3	4	8	4	6	12	5	8	16	7	10	20	8	12	23	9	14	25	11	16	27	12	18	28
		2 way throw	3	5	9	5	7	14	6	9	18	8	12	23	9	14	27	11	16	29	12	18	31	14	21	33
		1 way throw	4	7	13	7	10	20	9	13	26	11	16	33	13	20	38	15	23	41	17	26	44	20	29	46
12"	12"	CFM	200	300	400	500	600	700	800	900																
		NC	<20	<20	22	29	35	40	44	48																
		4 way throw	3	4	8	4	6	12	5	8	15	6	10	19	8	12	23	9	14	24	10	15	26	12	17	28
		3 way throw	3	5	9	5	7	14	6	9	19	8	12	24	9	14	28	11	17	30	13	19	32	14	21	34
		2 way throw	4	5	11	5	8	16	7	11	22	9	14	27	11	16	32	13	19	34	15	22	37	16	25	39
		1 way throw	5	8	15	8	12	23	10	15	31	13	19	39	15	23	45	18	27	49	21	31	52	23	35	55
14"	14"	CFM	270	410	540	680	820	950	1090	1230																
		NC	<20	<20	24	31	37	42	46	49																
		4 way throw	3	4	9	5	7	14	6	9	18	8	11	23	9	14	26	11	16	28	12	18	30	14	20	32
		3 way throw	4	5	11	6	8	17	7	11	22	9	14	28	11	17	32	13	19	35	15	22	37	17	25	39
		2 way throw	4	6	13	6	10	19	8	13	25	11	16	32	13	19	37	15	22	40	17	26	43	19	29	46
		1 way throw	6	9	18	9	14	27	12	18	36	15	23	45	18	27	53	21	32	57	24	36	61	27	41	64
16"	16"	CFM	360	530	710	890	1070	1240	1420	1600																
		NC	<20	<20	26	33	39	44	48	50																
		4 way throw	3	5	10	5	8	15	7	10	21	9	13	26	10	16	30	12	18	32	14	21	35	15	23	37
		3 way throw	4	6	13	6	9	19	8	13	25	11	16	32	13	19	37	15	22	40	17	25	42	19	28	45
		2 way throw	5	7	15	7	11	22	10	15	29	12	18	37	15	22	43	17	25	46	19	29	49	22	33	52
		1 way throw	7	10	21	10	15	31	14	21	41	17	26	52	21	31	60	24	36	65	27	41	69	31	46	74
18"	18"	CFM	450	680	900	1130	1350	1580	1800	2030																
		NC	<20	<20	27	34	40	45	49	51																
		4 way throw	4	6	12	6	9	18	8	12	23	10	15	29	12	17	34	14	20	37	15	23	39	17	26	41
		3 way throw	5	7	14	7	11	22	9	14	28	12	18	36	14	21	41	17	25	45	19	28	48	21	32	51
		2 way throw	5	8	16	8	12	25	11	16	33	14	21	41	16	25	48	19	29	52	22	33	55	25	37	59
		1 way throw	8	12	23	12	18	35	15	23	46	19	29	58	23	35	68	27	41	73	31	46	78	35	52	83

Data determined in accordance with ANSI/ASHRAE Standard 70-1991

Velocity - Neck Velocity, Fpm

Ps - Static Pressure, inches w.g.

Throw - Distance, in feet, to terminal velocities Vt = 150, 100, 50 Fpm, respectively.

3 Way - Throw distances shown are for the two opposite directions. The other throw distance is equal to the 4 way throw distance.

NC - Noise Criteria with 10 dB room attenuation.