

Model SDP Security Diffuser - Supply Performance Data

5/16" Diameter holes on 7/16" Staggered Centers

Nominal Neck Size		Neck Velocity	200	300	400	500	600	700	800
W	H	Static Pressure	0.03	0.07	0.12	0.19	0.28	0.38	0.49
6"	6"	CFM	50	80	100	130	150	180	200
		NC	<20	<20	20	27	33	38	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
		3 way throw	2 2 5	3 4 8	3 5 9	4 6 12	5 7 14	6 9 15	6 9 16
		2 way throw	2 3 5	3 4 9	4 5 11	5 7 14	5 8 16	7 10 17	7 11 18
		1 way throw	3 4 8	4 6 12	5 8 15	7 10 20	8 12 23	9 14 25	10 15 26
9"	9"	CFM	110	170	230	280	340	390	450
		NC	<20	<20	25	32	38	43	47
		4 way throw	2 3 6	3 4 9	4 6 12	5 7 14	6 9 17	7 10 18	8 12 20
		3 way throw	2 3 7	4 5 11	5 7 15	6 9 18	7 11 21	8 12 22	9 14 24
		2 way throw	3 4 8	4 6 12	6 8 17	7 10 20	8 12 24	9 14 26	11 16 28
		1 way throw	4 6 11	6 9 18	8 12 24	10 14 29	12 18 34	13 20 36	15 23 39
12"	12"	CFM	200	300	400	500	600	700	800
		NC	<20	20	29	36	42	47	51
		4 way throw	3 4 8	4 6 12	5 8 15	6 10 19	8 12 23	9 14 24	10 15 26
		3 way throw	3 5 9	5 7 14	6 9 19	8 12 24	9 14 28	11 17 30	13 19 32
		2 way throw	4 5 11	5 8 16	7 11 22	9 14 27	11 16 32	13 19 34	15 22 37
		1 way throw	5 8 15	8 12 23	10 15 31	13 19 39	15 23 45	18 27 49	21 31 52
15"	15"	CFM	310	470	630	780	940	1090	1250
		NC	<20	23	32	39	45	50	54
		4 way throw	3 5 10	5 7 15	7 10 20	8 12 24	10 15 28	11 17 30	13 19 33
		3 way throw	4 6 12	6 9 18	8 12 24	10 15 30	12 18 35	14 21 37	16 24 40
		2 way throw	5 7 14	7 10 21	9 14 28	11 17 34	14 21 40	16 24 43	18 27 46
		1 way throw	6 10 19	10 15 29	13 20 39	16 24 48	19 29 56	23 34 61	26 39 65
18"	18"	CFM	450	680	900	1130	1350	1580	1800
		NC	<20	25	34	41	47	52	56
		4 way throw	4 6 12	6 9 18	8 12 23	10 15 29	12 17 34	14 20 37	15 23 39
		3 way throw	5 7 14	7 11 22	9 14 28	12 18 36	14 21 41	17 25 45	19 28 48
		2 way throw	5 8 16	8 12 25	11 16 33	14 21 41	16 25 48	19 29 52	22 33 55
		1 way throw	8 12 23	12 18 35	15 23 46	19 29 58	23 35 68	27 41 73	31 46 78
21"	21"	CFM	610	920	1230	1530	1840	2140	2450
		NC	<20	27	36	43	49	54	58
		4 way throw	5 7 14	7 10 20	9 14 27	11 17 34	14 20 39	16 24 43	18 27 46
		3 way throw	6 8 17	8 12 25	11 17 33	14 21 41	17 25 48	19 29 52	22 33 56
		2 way throw	6 10 19	10 14 29	13 19 38	16 24 48	19 29 56	22 33 60	26 38 64
		1 way throw	9 14 27	14 20 41	18 27 54	23 34 68	27 41 79	32 47 85	36 54 91
24"	24"	CFM	800	1200	1600	2000	2400	2800	3200
		NC	<20	29	38	45	51	56	60
		4 way throw	5 8 15	8 12 23	10 15 31	13 19 39	15 23 45	18 27 49	21 31 52
		3 way throw	6 9 19	9 14 28	13 19 38	16 24 47	19 28 55	22 33 60	25 38 64
		2 way throw	7 11 22	11 16 33	15 22 44	18 27 55	22 33 64	26 38 69	29 44 74
		1 way throw	10 15 31	15 23 46	21 31 62	26 39 77	31 46 90	36 54 97	41 62 104

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.



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