

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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