

Model SDPC Security Diffuser - Supply Performance Data

3/16" Diameter holes on 1/4" Staggered Centers - 24" x 24" Module

Nominal Neck Size		Neck Velocity	200	300	400	500	600	700	800
W	H	Static Pressure	0.01	0.02	0.04	0.06	0.09	0.12	0.16
6"	6"	CFM	50	80	100	130	150	180	200
		NC	<20	<20	<20	23	29	34	38
		4 way throw	1 2 4	2 3 6	2 4 7	3 5 9	4 5 11	4 6 12	5 7 13
		3 way throw	1 2 4	2 4 7	3 4 9	4 6 11	4 7 13	5 8 15	6 9 16
		2 way throw	2 3 5	3 4 8	3 5 10	4 7 13	5 8 15	6 9 17	7 10 18
		1 way throw	2 4 7	4 6 11	5 7 14	6 9 19	7 11 22	9 13 25	10 14 26
8"	8"	CFM	90	130	180	220	270	310	360
		NC	<20	<20	20	27	33	38	42
		4 way throw	2 2 5	2 3 7	3 5 10	4 6 12	5 7 15	6 8 16	6 10 17
		3 way throw	2 3 6	3 4 9	4 6 12	5 7 14	6 9 18	7 10 20	8 12 21
		2 way throw	2 3 7	3 5 10	5 7 14	6 8 17	7 10 21	8 12 23	9 14 25
		1 way throw	3 5 10	5 7 14	6 10 19	8 12 24	10 15 29	11 17 32	13 19 35
10"	10"	CFM	140	210	280	350	420	490	560
		NC	<20	<20	23	30	36	41	45
		4 way throw	2 3 6	3 5 9	4 6 12	5 8 15	6 9 18	7 11 20	8 12 22
		3 way throw	2 4 7	4 6 11	5 7 15	6 9 18	7 11 22	9 13 25	10 15 27
		2 way throw	3 4 9	4 6 13	6 9 17	7 11 21	9 13 26	10 15 29	11 17 31
		1 way throw	4 6 12	6 9 18	8 12 24	10 15 30	12 18 36	14 21 41	16 24 44
12"	12"	CFM	200	300	400	500	600	700	800
		NC	<20	<20	25	32	38	43	47
		4 way throw	2 4 7	4 5 11	5 7 14	6 9 18	7 11 22	8 13 24	10 14 26
		3 way throw	3 4 9	4 7 13	6 9 18	7 11 22	9 13 26	10 15 30	12 18 32
		2 way throw	3 5 10	5 8 15	7 10 20	8 13 25	10 15 30	12 18 34	14 20 37
		1 way throw	5 7 14	7 11 22	10 14 29	12 18 36	14 22 43	17 25 49	19 29 52
14"	14"	CFM	270	410	540	680	820	950	1090
		NC	<20	<20	27	34	40	45	49
		4 way throw	3 4 8	4 6 13	6 8 17	7 10 21	8 13 25	10 15 28	11 17 30
		3 way throw	3 5 10	5 8 15	7 10 20	9 13 26	10 15 31	12 18 35	14 21 37
		2 way throw	4 6 12	6 9 18	8 12 23	10 15 30	12 18 36	14 21 40	16 24 43
		1 way throw	5 8 17	8 13 25	11 17 33	14 21 42	17 25 50	19 29 57	22 34 61
16"	16"	CFM	360	530	710	890	1070	1240	1420
		NC	<20	20	29	36	42	47	51
		4 way throw	3 5 10	5 7 14	6 10 19	8 12 24	10 14 29	11 17 32	13 19 35
		3 way throw	4 6 12	6 9 17	8 12 23	10 15 29	12 18 35	14 20 40	16 23 42
		2 way throw	4 7 14	7 10 20	9 14 27	11 17 34	14 20 41	16 24 46	18 27 49
		1 way throw	6 10 19	10 14 29	13 19 38	16 24 48	19 29 58	22 33 65	25 38 69

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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Nominal Neck Size	Neck Velocity	200	300	400	500	600	700	800
Dia	Static Pressure	0.01	0.02	0.04	0.06	0.09	0.12	0.16
6"	CFM	40	60	80	100	120	140	160
	NC	<20	<20	<20	22	28	33	37
	4 way throw	1 2 3	2 2 5	2 3 6	3 4 8	3 5 10	4 6 11	4 6 12
	3 way throw	1 2 4	2 3 6	3 4 8	3 5 10	4 6 12	5 7 13	5 8 14
	2 way throw	1 2 5	2 3 7	3 5 9	4 6 11	5 7 14	5 8 15	6 9 16
	1 way throw	2 3 6	3 5 10	4 6 13	5 8 16	6 10 19	8 11 22	9 13 23
8"	CFM	70	100	140	170	210	240	280
	NC	<20	<20	<20	26	31	36	40
	4 way throw	1 2 4	2 3 6	3 4 8	3 5 10	4 6 13	5 7 14	6 8 15
	3 way throw	2 3 5	2 4 7	3 5 10	4 6 13	5 8 16	6 9 17	7 10 19
	2 way throw	2 3 6	3 4 9	4 6 12	5 7 15	6 9 18	7 10 20	8 12 22
	1 way throw	3 4 8	4 6 12	6 8 17	7 10 21	8 13 25	10 15 28	11 17 31
10"	CFM	110	160	220	270	330	380	440
	NC	<20	<20	21	28	34	39	43
	4 way throw	2 3 5	3 4 8	4 5 11	4 7 13	5 8 16	6 9 18	7 11 19
	3 way throw	2 3 7	3 5 10	4 7 13	5 8 16	7 10 20	8 11 22	9 13 24
	2 way throw	2 4 8	4 5 11	5 8 15	6 9 19	8 11 23	9 13 25	10 15 27
	1 way throw	3 5 11	5 8 16	7 11 21	9 13 26	11 16 32	12 18 36	14 21 39
12"	CFM	160	240	310	390	470	550	630
	NC	<20	<20	24	31	37	42	46
	4 way throw	2 3 6	3 5 10	4 6 13	5 8 16	6 10 19	7 11 22	8 13 23
	3 way throw	3 4 8	4 6 12	5 8 15	6 10 19	8 12 23	9 14 26	10 16 28
	2 way throw	3 5 9	5 7 14	6 9 18	7 11 22	9 13 27	10 16 30	12 18 33
	1 way throw	4 6 13	6 10 19	8 13 25	11 16 32	13 19 38	15 22 43	17 25 46
14"	CFM	210	320	430	530	640	750	860
	NC	<20	<20	26	33	39	44	48
	4 way throw	2 4 7	4 6 11	5 7 15	6 9 18	7 11 22	9 13 25	10 15 27
	3 way throw	3 4 9	5 7 14	6 9 18	8 11 23	9 14 27	11 16 31	12 18 33
	2 way throw	3 5 10	5 8 16	7 11 21	9 13 26	10 16 31	12 18 36	14 21 38
	1 way throw	5 7 15	7 11 22	10 15 30	12 18 37	15 22 44	17 26 50	20 30 54
16"	CFM	280	420	560	700	840	980	1120
	NC	<20	<20	28	35	40	45	50
	4 way throw	3 4 8	4 6 13	6 8 17	7 11 21	8 13 25	10 15 29	11 17 31
	3 way throw	3 5 10	5 8 16	7 10 21	9 13 26	10 16 31	12 18 35	14 21 38
	2 way throw	4 6 12	6 9 18	8 12 24	10 15 30	12 18 36	14 21 41	16 24 44
	1 way throw	5 8 17	8 13 25	11 17 34	14 21 42	17 25 51	20 30 58	23 34 62

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Model SDPCR Security Diffuser - Return Performance Data
3/16" Diameter holes on 1/4" Staggered Centers - 24" x 24" Module

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W	H	Static Pressure	0.01	0.02	0.04	0.07	0.09	0.13	0.17
6"	6"	CFM	50	80	100	130	150	180	200
		NC	<20	<20	<20	<20	<20	<20	22
8"	8"	CFM	90	130	180	220	270	310	360
		NC	<20	<20	<20	<20	<20	22	26
10"	10"	CFM	140	210	280	350	420	490	560
		NC	<20	<20	<20	<20	20	25	29
12"	12"	CFM	200	300	400	500	600	700	800
		NC	<20	<20	<20	<20	22	27	31
14"	14"	CFM	270	410	540	680	820	950	1090
		NC	<20	<20	<20	<20	24	29	33
16"	16"	CFM	360	530	710	890	1070	1240	1420
		NC	<20	<20	<20	20	26	31	35

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Neck Size	Neck Velocity							
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6"	CFM	40	60	80	100	120	140	160
	NC	<20	<20	<20	<20	<20	<20	21
8"	CFM	70	100	140	170	210	240	280
	NC	<20	<20	<20	<20	<20	20	24
10"	CFM	110	160	220	270	330	380	440
	NC	<20	<20	<20	<20	<20	23	27
12"	CFM	160	240	310	390	470	550	630
	NC	<20	<20	<20	<20	21	25	30
14"	CFM	210	320	430	530	640	750	860
	NC	<20	<20	<20	<20	23	27	32
16"	CFM	280	420	560	700	840	980	1120
	NC	<20	<20	<20	<20	24	29	33

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

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