

Model SD Security Diffuser - Supply Performance Data

Nominal Neck Size		Neck Velocity	200			300			400			500			600			700			800		
W	H	Static Pressure	0.02			0.05			0.09			0.15			0.21			0.29			0.38		
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	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			22			29			34			39			44		
		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			25			32			38			43			47		
		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			<20			28			35			41			46			50		
		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			21			31			38			43			48			53		
		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			24			33			40			46			50			55		
		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			25			34			41			47			52			56		
		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.