

# 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.



**KEES INCORPORATED**  
 400 S. Industrial Dr.  
 Elkhart Lake, WI 53020

Phone: (920) 876-3391  
 Fax: (920) 876-3065  
 Website: www.kees.com