

# Model LSD / Supply Performance Data

Nom Neck Size		Nom. Neck Sq. Ft.	Neck Velocity	300	400	500	600	700	800	900
W	H		Ps	0.03	0.06	0.09	0.13	0.18	0.24	0.30
6"	6"	0.25 Ak = .10	CFM	80	100	130	150	180	200	230
			NC	<20	<20	<20	23	27	30	33
			4 way throw	4 5 7 4 6 8 5 6 9 6 7 10 6 8 11 7 8 12 7 9 13 8 10 13 8 10 13 7 8 10 12						
			3 way throw	5 6 9 6 7 10 6 8 11 7 8 12 7 9 13 8 10 13 9 10 15 9 11 16 10 12 17						
			2 way throw	6 7 10 6 8 11 7 9 13 8 10 13 9 10 15 9 11 16 10 12 17						
			1 way throw	8 10 14 9 11 16 10 13 18 11 13 19 12 15 21 13 16 22 14 17 24						
9"	9"	0.56 Ak = .23	CFM	170	230	280	340	390	450	510
			NC	<20	<20	21	26	30	34	37
			4 way throw	6 7 10 7 8 12 8 9 13 8 10 14 9 11 15 10 12 17 10 12 18						
			3 way throw	7 9 12 8 10 14 9 11 16 10 12 18 11 13 19 12 14 20 12 15 22						
			2 way throw	8 10 14 10 12 17 11 13 18 12 14 20 13 15 22 13 17 23 14 18 25						
			1 way throw	12 14 20 14 17 24 15 18 26 17 20 29 18 22 31 19 23 33 20 25 35						
12"	12"	1.00 Ak = .40	CFM	300	400	500	600	700	800	900
			NC	<20	<20	24	29	33	36	39
			4 way throw	8 10 13 9 11 16 10 12 17 11 13 19 12 15 21 13 16 22 13 17 23						
			3 way throw	10 12 17 11 13 19 12 15 21 13 17 23 15 18 25 16 19 27 17 20 29						
			2 way throw	11 13 19 13 16 22 14 17 25 16 19 27 17 21 29 18 22 31 19 23 33						
			1 way throw	16 19 27 18 22 31 20 25 35 22 27 38 24 29 41 25 31 44 27 33 47						
15"	15"	1.56 Ak = .63	CFM	470	630	780	940	1,090	1,250	1,410
			NC	<20	20	26	30	34	38	41
			4 way throw	10 12 17 11 14 20 13 15 22 14 17 24 15 18 26 16 19 28 17 21 29						
			3 way throw	12 15 21 14 17 24 15 19 27 17 21 29 18 22 31 19 24 34 21 25 36						
			2 way throw	14 17 24 16 20 28 18 22 31 19 24 34 21 26 36 22 28 39 24 29 41						
			1 way throw	19 24 34 23 28 39 25 31 43 28 34 48 30 36 51 32 39 55 34 41 58						
18"	18"	2.25 Ak = .90	CFM	680	900	1,130	1,350	1,580	1,800	2,030
			NC	<20	22	27	32	36	40	43
			4 way throw	12 14 20 13 17 23 15 18 26 17 20 29 18 22 31 19 23 33 20 25 35						
			3 way throw	14 18 25 17 20 29 18 23 32 20 25 35 22 27 38 23 29 40 25 30 43						
			2 way throw	17 20 29 19 23 33 21 26 37 23 29 40 25 31 44 27 33 47 29 35 50						
			1 way throw	23 29 41 27 33 47 30 37 52 33 40 57 36 44 62 38 47 66 40 50 70						
21"	21"	3.06 Ak = 1.25	CFM	920	1,230	1,530	1,840	2,140	2,450	2,760
			NC	<20	23	29	33	37	41	44
			4 way throw	14 17 24 16 19 27 18 22 30 19 24 33 21 25 36 22 27 39 24 29 41						
			3 way throw	17 20 29 19 24 33 22 26 37 24 29 41 25 31 44 27 33 47 29 35 50						
			2 way throw	19 24 33 22 27 39 25 30 43 27 33 47 29 36 51 31 39 54 33 41 58						
			1 way throw	27 33 47 31 39 55 35 43 61 39 47 67 42 51 72 44 54 77 47 58 82						
24"	24"	4.00 Ak = 1.55	CFM	1,200	1,600	2,000	2,400	2,800	3,200	3,600
			NC	<20	24	30	35	39	42	45
			4 way throw	16 19 27 18 22 31 20 25 35 22 27 38 24 29 41 25 31 44 27 33 47						
			3 way throw	19 23 33 22 27 38 25 30 43 27 33 47 29 36 50 31 38 54 33 40 57						
			2 way throw	22 27 38 25 31 44 28 35 49 31 38 54 34 41 58 36 44 62 38 47 66						
			1 way throw	31 38 54 36 44 62 40 49 70 44 54 76 48 58 82 51 62 88 54 66 93						
27"	27"	5.06 Ak = 2.02	CFM	1,520	2,030	2,530	3,040	3,540	4,050	4,560
			NC	<20	25	31	36	40	43	46
			4 way throw	18 21 30 20 25 35 23 28 39 25 30 43 27 33 46 29 35 50 30 37 53						
			3 way throw	21 26 37 25 30 43 28 34 48 30 37 53 33 40 57 35 43 61 37 45 64						
			2 way throw	25 30 43 29 35 50 32 39 55 35 43 61 38 46 65 40 50 70 43 53 74						
			1 way throw	35 43 61 40 50 70 45 55 78 50 61 86 53 65 93 57 70 99 61 74 105						
30"	30"	6.25 Ak = 2.35	CFM	1,880	2,500	3,130	3,750	4,380	5,000	5,630
			NC	<20	26	32	36	40	44	47
			4 way throw	19 24 34 22 28 39 25 31 44 28 34 48 30 36 51 32 39 55 34 41 58						
			3 way throw	24 29 41 28 34 48 31 38 53 34 41 58 36 45 63 39 48 67 41 51 71						
			2 way throw	28 34 48 32 39 55 36 44 62 39 48 67 42 51 73 45 55 78 48 58 83						
			1 way throw	39 48 67 45 55 78 50 62 87 55 67 95 59 73 103 64 78 110 67 83 117						
33"	33"	7.56 Ak = 2.75	CFM	2,270	3,030	3,780	4,540	5,290	6,050	6,810
			NC	<20	27	33	37	41	45	48
			4 way throw	21 26 37 25 30 43 28 34 48 30 37 52 33 40 57 35 43 61 37 45 64						
			3 way throw	26 32 45 30 37 52 34 41 59 37 45 64 40 49 69 43 52 74 45 56 79						
			2 way throw	30 37 52 35 43 61 39 48 68 43 52 74 46 57 80 49 61 86 52 64 91						
			1 way throw	43 52 74 49 61 86 55 68 96 61 74 105 65 80 113 70 86 121 74 91 128						
36"	36"	9.00 Ak = 3.15	CFM	2,700	3,600	4,500	5,400	6,300	7,200	8,100
			NC	20	28	33	38	42	46	49
			4 way throw	23 29 40 27 33 47 30 37 52 33 40 57 36 44 62 38 47 66 40 50 70						
			3 way throw	29 35 50 33 40 57 37 45 64 40 50 70 44 53 76 47 57 81 50 61 86						
			2 way throw	33 40 57 38 47 66 43 52 74 47 57 81 50 62 87 54 66 93 57 70 99						
			1 way throw	47 57 81 54 66 93 60 74 104 66 81 114 71 87 123 76 93 132 81 99 140						

Data determined in accordance with 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.

Balancing: CFM = Ak x Vk; Vk is the average velocity utilizing Alnor Jet Probe 2220A or 6070.



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