

Supply Air Square Ceiling Diffuser - One Way Throw

1.1 Air Flow Data

Neck Size in mm x mm	Neck Velocity fpm	200	300	400	500	600	700
150 x 150	L/s	22	34	45	56	68	79
	P _s (Pa)	6.77	10.30	20.69	34.72	48.84	63.15
	Throw	4.3 - 6.6 - 8.9	6.6 - 9.2 - 11.8	9.2 - 12.1 - 14.4	10.8 - 13.8 - 16.1	13.1 - 15.4 - 19.4	14.4 - 18 - 20.3
	NC	<15	15	20	27	34	38
225 x 225	L/s	51	76	101	127	152	177
	P _s (Pa)	6.77	13.44	27.46	41.78	59.33	80.71
	Throw	4.3 - 6.6 - 8.9	6.6 - 9.2 - 12.8	9.5 - 12.1 - 17.1	12.5 - 17.4 - 22.3	16.7 - 23 - 30.5	23 - 28.2 - 38.1
	NC	<15	15	23	29	35	39
300 x 300	L/s	90	135	180	225	270	315
	P _s (Pa)	6.77	17.16	31.09	52.07	73.16	101.99
	Throw	7.9 - 11.5 - 18	11.8 - 16.4 - 23.3	15.7 - 19.4 - 28.9	18.7 - 23.6 - 32.2	20.7 - 24.3 - 36.1	23 - 28.2 - 41
	NC	<15	15	24	31	38	41
375 x 375	L/s	141	211	281	352	421	492
	P _s (Pa)	10.10	20.50	34.52	55.51	80.22	112.38
	Throw	8.9 - 13.5 - 20.3	15.1 - 21 - 28.9	20.3 - 24 - 34.8	23.6 - 28.5 - 41	25.6 - 29.5 - 23	28.2 - 34.4 - 51.2
	NC	<15	18	28	35	39	42
450 x 450	L/s	203	304	405	505	607	708
	P _s (Pa)	10.10	20.50	37.85	62.57	90.61	112.38
	Throw	11.5 - 17.1 - 27.9	17.4 - 24.3 - 34.8	25.9 - 29.9 - 42	27.2 - 34.4 - 16.4	31.8 - 38.7 - 55.8	34.4 - 42.7 - 59.1
	NC	<15	19	30	35	39	42
525 x 525	L/s	276	413	550	689	829	959
	P _s (Pa)	10.10	24.03	41.38	66.10	94.14	116.01
	Throw	13.5 - 19 - 31.2	19.7 - 28.9 - 41.3	27.6 - 33.5 - 49.2	32.2 - 39.4 - 57.1	35.8 - 45.9 - 65.6	39.4 - 48.6 - 70.5
	NC	<15	21	31	36	41	45
600 x 600	L/s	360	539	719	899	1079	1259
	P _s (Pa)	10.10	24.03	41.38	66.10	94.14	116.01
	Throw	14.8 - 21.3 - 38.1	22 - 29.9 - 45.9	29.9 - 39.4 - 56.1	34.4 - 45.9 - 65.6	39.4 - 52.5 - 75.5	42 - 56.4 - 78.7
	NC	15	26	33	36	40	43

- Neck Velocity is measured in fpm.
- P_s : Static pressure drop in Pascal.
- Throw (ft) is measured for terminal velocities of 2.5, 1.5 & 0.8 ft/s.
- Noise Criteria (NC) based on room attenuation of 10 dB.