

Supply Air Square Ceiling Diffuser - Two Way Throw

1.2 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
	M ³ /sec.	0.022	0.034	0.045	0.056	0.068	0.079
	P _s (Pa)	6.28	8.53	19.81	33.44	47.37	59.82
	Throw	4.3 - 6.6 - 8.9	6.6 - 9.2 - 11.8	9.2 - 12.1 - 14.4	10.5 - 13.1 - 15.7	12.5 - 14.8 - 18.4	13.5 - 17.1 - 19.7
	NC	<15	15	19	27	32	37
225 x 225	L/s	51	76	101	127	152	177
	M ³ /sec.	0.051	0.076	0.101	0.127	0.152	0.177
	P _s (Pa)	6.28	12.65	26.48	40.21	57.47	76.20
	Throw	4.3 - 6.6 - 8.9	6.6 - 9.2 - 12.8	9.2 - 12.1 - 16.7	12.1 - 17.1 - 21.7	15.7 - 22 - 29.5	22 - 26.9 - 36.1
	NC	<15	16	23	28	34	41
300 x 300	L/s	90	135	180	225	270	315
	M ³ /sec.	0.09	0.135	0.18	0.225	0.27	0.31
	P _s (Pa)	6.28	16.08	29.91	50.01	70.90	96.20
	Throw	7.9 - 11.5 - 18	11.8 - 16.1 - 23	15.4 - 19 - 28.2	18 - 22.6 - 31.2	19.4 - 23.3 - 36.1	22 - 27.6 - 39.4
	NC	<15	16	25	31	38	41
375 x 375	L/s	141	211	281	352	421	492
	M ³ /sec.	0.141	0.211	0.281	0.352	0.421	0.492
	P _s (Pa)	9.41	19.22	36.38	53.94	77.67	106.01
	Throw	8.9 - 13.5 - 20.3	15.1 - 20.7 - 28.5	20 - 23.6 - 34.1	22.6 - 27.6 - 39.7	24.3 - 30.5 - 45.9	26.6 - 32.8 - 48.9
	NC	<15	16	27	34	38	42
450 x 450	L/s	203	304	405	505	607	708
	M ³ /sec.	0.203	0.304	0.405	0.505	0.607	0.708
	P _s (Pa)	9.41	19.22	39.81	65.51	87.28	119.25
	Throw	11.2 - 16.7 - 27.9	17.4 - 24.3 - 32.8	27.2 - 32.8 - 49.2	26.2 - 33.5 - 47.9	30.5 - 36.1 - 53.5	32.8 - 40.4 - 55.8
	NC	<15	19	28	35	39	42
525 x 525	L/s	276	413	550	689	829	959
	M ³ /sec.	0.276	0.413	0.55	0.69	0.83	0.96
	P _s (Pa)	9.41	22.46	39.81	63.65	91.30	108.85
	Throw	13.5 - 19 - 31.2	19.7 - 28.5 - 41.3	27.2 - 32.8 - 49.2	31.2 - 38.7 - 55.8	34.1 - 44 - 62.3	38.1 - 46.3 - 65.6
	NC	15	23	30	37	42	45
600 x 600	L/s	360	539	719	899	1079	1259
	M ³ /sec.	0.36	0.54	0.72	0.9	1.08	1.26
	P _s (Pa)	9.41	22.46	39.81	63.65	91.30	108.85
	Throw	14.8 - 21.3 - 36.1	21.7 - 29.5 - 45.9	29.5 - 38.7 - 55.4	33.5 - 44.6 - 62.3	37.4 - 49.9 - 72.2	40 - 52.5 - 75.5
	NC	15	25	33	36	42	44

- 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.