

Supply Air Square Ceiling Diffuser - Four Way Throw

1.4 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)	5.00	7.45	14.91	24.91	34.91	44.82
	Throw	3.9 - 5.9 - 7.9	5.9 - 7.9 - 10.2	7.9 - 10.2 - 12.1	8.9 - 11.2 - 13.1	10.2 - 12.1 - 15.1	11.2 - 14.1 - 16.1
	NC	<15	15	20	27	34	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)	5.00	9.81	19.91	29.91	42.36	57.27
	Throw	3.9 - 5.9 - 7.9	5.9 - 7.9 - 11.2	7.9 - 10.2 - 14.1	10.2 - 14.1 - 18	13.1 - 18 - 24	18 - 22 - 29.9
	NC	<15	17	22	30	34	39
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)	5.00	12.45	22.46	37.36	52.27	72.28
	Throw	6.9 - 10.2 - 16.1	10.2 - 14.1 - 20	13.1 - 16.1 - 24	15.1 - 19 - 25.9	16.1 - 19 - 29.9	18 - 22 - 32.2
	NC	<15	15	26	31	38	42
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)	7.45	14.91	24.91	39.81	57.27	79.73
	Throw	7.9 - 12.1 - 18	13.1 - 18 - 24.9	17.1 - 20 - 28.9	19 - 23 - 33.1	20 - 24.9 - 37.1	22 - 26.9 - 40
	NC	<15	16	27	34	39	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)	7.45	14.91	27.36	44.82	64.72	89.63
	Throw	10.2 - 15.1 - 24.9	15.1 - 21 - 29.9	18.4 - 24.9 - 35.1	22 - 27.9 - 40	24.9 - 30.2 - 44	26.9 - 33.1 - 45.9
	NC	<15	20	28	36	40	44
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)	7.45	17.46	29.91	47.37	67.27	82.28
	Throw	12.1 - 17.1 - 27.9	17.1 - 24.9 - 36.1	23 - 27.9 - 41	25.9 - 32.2 - 45.9	27.9 - 36.1 - 52.2	31.2 - 38.1 - 55.1
	NC	<15	21	31	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)	7.45	17.46	29.91	47.37	67.27	82.28
	Throw	13.1 - 19 - 34.1	19 - 26.2 - 40	24.9 - 32.8 - 46.9	27.9 - 37.1 - 52.8	30.8 - 41 - 59.1	32.8 - 44 - 64
	NC	15	26	32	37	40	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.