

Supply Air Square Ceiling Diffuser - Three Way Throw

1.3 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)	5.49	8.34	16.87	28.15	39.81	51.88
	Throw in X-Side	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
	Throw in Y-Side	3.9 - 5.9 - 8.2	5.9 - 8.5 - 11.2	8.5 - 11.2 - 13.1	9.8 - 12.1 - 14.4	11.5 - 13.5 - 16.4	12.1 - 15.4 - 17.7
	NC	<15	15	20	25	33	39
225 x 225	L/s	51	76	101	127	152	177
	P _s (Pa)	5.49	10.98	22.46	33.83	48.25	57.27
	Throw in X-Side	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
	Throw in Y-Side	3.9 - 5.9 - 8.2	5.9 - 8.5 - 12.1	8.5 - 11.2 - 15.4	11.2 - 15.7 - 20	14.4 - 20 - 26.9	20 - 24.6 - 33.1
	NC	<15	15	24	29	35	40
300 x 300	L/s	90	135	180	225	270	315
	P _s (Pa)	5.49	14.22	25.40	42.76	59.62	83.16
	Throw in X-Side	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
	Throw in Y-Side	6.9 - 10.8 - 17.1	11.2 - 15.1 - 21.3	14.1 - 17.7 - 26.2	16.7 - 20.7 - 27.9	17.7 - 21.7 - 33.1	20.3 - 25.3 - 34.8
	NC	<15	17	25	32	37	43
375 x 375	L/s	141	211	281	352	421	492
	P _s (Pa)	8.24	16.67	28.15	45.01	65.31	91.69
	Throw in X-Side	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
	Throw in Y-Side	8.2 - 12.8 - 19	14.1 - 19.4 - 26.9	18.4 - 22 - 30.8	21 - 24.9 - 35.8	22 - 27.2 - 41	24.3 - 29.9 - 44
	NC	<15	17	26	35	38	42
450 x 450	L/s	203	304	405	505	607	708
	P _s (Pa)	8.24	16.67	30.99	50.60	73.75	103.07
	Throw in X-Side	10.2 - 15.1 - 24.9	15.1 - 21 - 29.9	21.7 - 24.9 - 35.1	22 - 27.9 - 40	24.9 - 30.2 - 44	26.9 - 33.1 - 45.9
	Throw in Y-Side	10.5 - 16.1 - 26.6	16.1 - 22.3 - 31.2	23.6 - 28.5 - 41	23.6 - 30.2 - 44	27.2 - 33.5 - 50.5	29.9 - 37.1 - 51.2
	NC	<15	18	28	35	41	43
525 x 525	L/s	276	413	550	689	829	959
	P _s (Pa)	8.24	19.52	34.32	53.54	76.69	94.63
	Throw in X-Side	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
	Throw in Y-Side	12.8 - 18.4 - 30.2	18.4 - 26.9 - 39	24.9 - 30.5 - 44.9	27.9 - 34.1 - 17.7	30.8 - 41 - 58.1	34.8 - 43 - 58.4
	NC	15	22	32	36	42	45
600 x 600	L/s	360	539	719	899	1079	1259
	P _s (Pa)	8.24	19.52	34.32	53.54	76.69	94.63
	Throw in X-Side	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
	Throw in Y-Side	13.8 - 20.3 - 35.1	20.3 - 27.2 - 43	27.6 - 35.8 - 50.5	30.5 - 39.7 - 57.7	33.5 - 45.9 - 65.6	36.7 - 49.2 - 70.9
	NC	15	25	33	37	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.