

Return Air Square Ceiling Diffuser - One Way

1.5 Air Flow Data

Neck Size in mm x mm	Neck Velocity fpm	200	250	300	350	400	500	600	700	800
150 x 150	L/s	23	29	35	40	46	58	69	81	92
	M ³ /sec.	0.023	0.029	0.035	0.040	0.046	0.058	0.069	0.081	0.092
	P _s (Pa)	6.37	10.20	14.81	20.20	26.09	41.68	60.02	83.75	109.64
	NC	<15	<15	<15	<15	19	23	30	34	40
225 x 225	L/s	51	64	77	89	102	128	153	179	204
	M ³ /sec.	0.051	0.064	0.077	0.089	0.102	0.128	0.153	0.179	0.204
	P _s (Pa)	6.86	11.18	16.87	22.06	29.81	46.19	66.59	94.63	123.27
	NC	<15	<15	<15	<15	21	26	34	40	45
300 x 300	L/s	91	113	135	158	180	225	270	315	360
	M ³ /sec.	0.091	0.113	0.135	0.158	0.180	0.225	0.270	0.315	0.360
	P _s (Pa)	7.94	12.36	18.14	24.61	32.75	51.48	74.63	102.68	137.00
	NC	<15	<15	15	19	25	30	38	43	48
375 x 375	L/s	141	176	212	246	282	353	423	494	563
	M ³ /sec.	0.141	0.176	0.212	0.246	0.282	0.353	0.423	0.494	0.563
	P _s (Pa)	8.92	13.93	20.69	27.95	37.17	58.15	85.32	116.21	153.38
	NC	<15	<15	19	23	31	37	43	47	51
450 x 450	L/s	203	254	305	355	406	508	608	710	811
	M ³ /sec.	0.203	0.254	0.305	0.355	0.406	0.508	0.608	0.710	0.811
	P _s (Pa)	9.71	14.91	22.26	30.30	40.60	63.35	90.61	127.00	167.11
	NC	<15	16	23	30	35	40	45	48	52
525 x 525	L/s	276	344	414	483	551	689	827	965	1103
	M ³ /sec.	0.276	0.344	0.414	0.483	0.551	0.689	0.827	0.965	1.103
	P _s (Pa)	10.40	16.28	24.03	32.66	43.54	68.55	98.56	135.14	180.83
	NC	17	25	30	35	40	43	47	51	55
600 x 600	L/s	360	450	539	630	719	899	1079	1259	1439
	M ³ /sec.	0.360	0.450	0.539	0.630	0.719	0.899	1.079	1.259	1.439
	P _s (Pa)	11.38	17.85	25.89	35.79	46.97	73.94	106.60	148.67	197.31
	NC	22	29	36	40	40	46	49	54	58

- Neck Velocity is measured in fpm.
- P_s: Static pressure drop in Pascal.
- Noise Criteria (NC) based on room attenuation of 10 dB.