

ROUND CEILING DIFFUSER - FIXED CORE

1.1 Air Flow Data

Neck dia in mm	Face Velocity fpm	400	500	600	700	800	900	1000	1100	1200
160	L/s	24	31	37	43	50	59	65	72	81
	P _s (Pa)	1.96	2.59	3.80	5.26	6.67	7.94	9.32	10.98	13.73
	Throw	3 - 1.6	3.6 - 2.3	4.3 - 3	5.2 - 3.6	6.6 - 4.9	8.2 - 6.6	9.5 - 7.9	11.2 - 9.2	13.1 - 10.8
	NC	< 15	15	20	22	27	30	34	41	48
200	L/s	34	44	55	64	73	82	92	103	117
	P _s (Pa)	2.26	2.74	4.38	6.64	8.34	10.30	12.26	14.81	20.59
	Throw	4.3 - 2.8	4.9 - 3.3	5.9 - 4.3	6.9 - 4.9	8.2 - 6.2	9.5 - 7.2	11.2 - 8.5	13.1 - 10.2	15.7 - 12.1
	NC	< 15	<15	18	21	26	30	35	40	49
250	L/s	55	69	83	96	109	122	136	151	169
	P _s (Pa)	2.95	3.55	4.78	6.48	10.59	12.65	15.00	19.61	23.54
	Throw	5.2 - 3.6	6.2 - 4.6	7.9 - 5.9	8.9 - 6.6	9.8 - 7.2	11.5 - 8.2	13.8 - 9.8	16.4 - 11.8	19.7 - 14.4
	NC	< 15	<15	16	21	28	31	36	45	53
315	L/s	84	105	126	148	167	185	206	230	256
	P _s (Pa)	4.02	4.71	6.40	10.00	12.36	17.85	21.57	25.50	31.38
	Throw	5.9 - 4.3	7.2 - 5.2	8.2 - 6.6	10.2 - 8.2	11.8 - 9.8	13.8 - 10.5	16.1 - 12.5	19 - 15.1	23 - 18.4
	NC	< 15	<15	20	23	29	34	36	43	53
355	L/s	115	140	165	195	220	250	275	302	330
	P _s (Pa)	1.90	2.25	3.82	5.75	7.93	11.38	13.73	16.48	19.81
	Throw	6.6 - 4.6	8.2 - 5.6	10.2 - 7.9	11.8 - 8.9	13.8 - 9.8	15.4 - 7.5	18.4 - 12.8	22 - 15.1	26.6 - 18.4
	NC	< 15	<15	17	24	29	35	41	51	58
400	L/s	127	157	187	217	250	279	309	339	372
	P _s (Pa)	1.60	1.88	3.03	4.60	5.78	8.11	10.79	13.73	16.67
	Throw	6.9 - 4.9	8.2 - 5.9	9.8 - 7.5	11.8 - 8.9	13.5 - 9.8	15.1 - 10.5	17.7 - 12.5	21.3 - 15.1	25.9 - 17.7
	NC	< 15	<15	18	24	29	34	41	50	60

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