

ROUND CEILING DIFFUSER - ADJUSTABLE CORE

1.2 Air Flow Data

Neck Dia in mm	Face Velocity fpm	400	500	600	800	1000	1200	1400
160	L/s	28	35	42	56	70	84	98
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	1 - 1.6 - 2.6	1.3 - 2 - 3.9	1.6 - 2.3 - 5.2	2.3 - 3.9 - 5.9	3 - 4.6 - 7.9	3.9 - 5.6 - 9.5	4.6 - 6.6 - 11.2
	NC	< 15	<15	21	28	33	39	45
200	L/s	52	65	78	104	130	156	182
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	1.6 - 2.3 - 4.3	2 - 3 - 5.6	2.3 - 3.9 - 6.6	3.3 - 5.2 - 8.2	4.3 - 6.2 - 10.8	5.2 - 7.9 - 13.1	6.2 - 9.2 - 15.7
	NC	15	19	22	29	35	40	45
250	L/s	84	105	126	168	210	252	294
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	2.3 - 3 - 5.6	2.6 - 4.3 - 7.5	3.3 - 4.9 - 8.2	4.3 - 6.6 - 11.2	5.6 - 7.9 - 13.1	6.6 - 9.8 - 16.4	7.5 - 11.8 - 20.3
	NC	15	20	26	30	37	42	46
315	L/s	124	155	186	248	310	372	434
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	2.6 - 3.9 - 6.6	3 - 4.6 - 7.2	3.9 - 5.6 - 9.2	4.6 - 7.2 - 12.5	6.6 - 9.8 - 16.4	7.2 - 11.5 - 18.7	9.2 - 14.4 - 22.3
	NC	15	22	24	33	38	43	47
355	L/s	170	212	255	340	425	510	595
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	3 - 4.3 - 7.5	3.6 - 5.2 - 9.2	4.3 - 6.6 - 11.2	5.9 - 9.2 - 14.4	7.2 - 11.5 - 18.7	9.2 - 14.4 - 22.3	11.2 - 16.4 - 28.2
	NC	16	22	26	35	39	43	49
400	L/s	224	280	336	448	560	672	783
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	3.3 - 5.2 - 8.5	4.3 - 6.6 - 10.5	5.2 - 7.9 - 13.1	6.9 - 10.5 - 17.1	8.5 - 13.1 - 18.4	10.2 - 15.7 - 24.9	11.8 - 18.4 - 31.5
	NC	17	22	26	34	39	44	49
450	L/s	285	358	428	571	714	857	999
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	4.3 - 5.9 - 9.8	4.9 - 7.9 - 11.8	5.9 - 8.9 - 14.8	7.9 - 11.8 - 19.7	9.8 - 14.8 - 24.6	11.5 - 17.7 - 28.2	13.1 - 19.7 - 32.8
	NC	17	25	28	37	41	47	51
500	L/s	354	443	531	708	884	1059	1238
	P _s (Pa)	3.53	5.39	7.65	14.02	21.97	31.97	41.97
	Throw	4.6 - 6.6 - 11.2	5.9 - 8.5 - 14.4	6.6 - 9.8 - 16.4	8.9 - 13.1 - 17.7	11.5 - 17.1 - 27.6	13.8 - 20.3 - 32.8	15.7 - 24.9 - 39.4
	NC	18	25	29	37	42	46	51

- Neck size measured in mm dia.
- 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.