

PERFORMANCE DATA
Ceiling Diffuser Plaque
MODEL CDP

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	1600
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.249
12 x 12	6	CFM	80	100	120	135	155	175	195	235	275	315
		Ps	.009	.014	.021	.024	.032	.041	.051	.075	.104	.137
		Pt	.019	.030	.043	.054	.072	.092	.114	.165	.226	.297
		Throw*	3-4-7	3-5-7	4-6-8	4-6-9	5-6-9	6-7-10	6-7-10	6-8-11	7-9-12	8-9-13
		Throw	3-4-7	4-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-7-10	7-8-11	7-9-12	8-9-13
		NC	<15	<15	<15	16	18	21	23	27	31	34
	8	CFM	140	175	210	245	280	315	350	420	490	560
		Ps	.017	.027	.039	.053	.069	.087	.108	.155	.212	.276
		Pt	.027	.043	.061	.083	.109	.138	.170	.245	.334	.436
		Throw*	3-5-9	4-7-10	5-8-11	6-8-11	7-9-12	8-9-13	8-10-14	9-11-15	9-11-16	10-12-17
		Throw	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-15	10-12-17	10-13-18
		NC	<15	<15	17	20	22	25	27	31	34	37
24 x 24	6	CFM	80	100	120	135	155	175	195	235	275	315
		Ps	.003	.004	.006	.006	.008	.011	.014	.021	.029	.039
		Pt	.013	.020	.029	.036	.048	.061	.076	.110	.151	.198
		Throw*	0-1-4	1-2-6	1-2-7	1-3-8	2-4-8	2-5-9	3-5-9	4-7-10	5-8-11	6-9-12
		Throw	1-2-5	1-3-6	2-4-7	2-4-8	3-5-9	4-5-9	4-6-10	5-7-11	6-8-12	6-9-13
		NC	<15	<15	<15	<15	15	18	21	26	31	35
	8	CFM	140	175	210	245	280	315	350	420	490	560
		Ps	.007	.012	.017	.023	.030	.038	.047	.067	.091	.119
		Pt	.017	.027	.039	.053	.070	.088	.109	.157	.213	.279
		Throw*	1-1-6	1-2-7	1-3-9	2-4-10	3-6-11	3-7-12	4-7-13	6-9-14	7-10-15	8-11-16
		Throw	1-2-6	2-4-8	2-5-10	3-6-11	4-6-12	5-7-13	5-8-13	6-10-14	7-11-16	9-12-17
		NC	<15	<15	<15	17	21	25	28	34	39	42
	10	CFM	220	275	325	380	435	490	545	655	765	875
		Ps	.016	.025	.034	.047	.061	.078	.096	.139	.190	.249
		Pt	.026	.040	.056	.077	.101	.128	.159	.229	.313	.409
		Throw*	1-2-7	1-3-9	2-4-11	2-5-13	3-7-14	4-8-15	5-9-16	7-11-17	9-13-19	10-14-20
		Throw	1-3-8	2-5-10	3-6-12	4-7-14	5-8-15	6-9-16	7-10-17	8-12-18	9-14-20	11-15-21
		NC	<15	15	15	21	26	30	33	37	41	43

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Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	1600
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.249
24 x 24	12	CFM	315	395	470	550	630	705	785	940	1100	1255
		Ps	.027	.042	.059	.081	.107	.133	.165	.236	.324	.422
		Pt	.037	.058	.082	.112	.146	.183	.227	.326	.446	.581
		Throw*	1-2-9	1-3-11	2-5-13	3-7-15	4-9-17	5-10-18	6-11-19	8-13-21	10-15-23	12-17-24
		Throw	2-4-10	2-6-12	4-7-14	5-8-17	6-10-18	7-11-19	8-12-20	10-14-22	11-17-23	13-18-25
		NC	<15	<15	17	22	27	30	33	38	42	45
	14	CFM	430	535	640	750	855	960	1070	1285	1495	1710
		Ps	.031	.049	.069	.095	.124	.156	.194	.280	.378	.495
		Pt	.041	.064	.092	.126	.164	.206	.256	.370	.501	.655
		Throw*	1-3-10	2-4-13	2-6-15	3-8-18	4-10-20	6-12-21	7-13-22	10-15-24	12-18-26	14-20-28
		Throw	2-4-11	3-6-14	4-8-17	6-10-19	7-11-21	8-13-22	9-14-23	11-17-25	13-19-27	15-21-29
		NC	<15	<15	20	25	30	33	36	40	43	46
	15	CFM	490	615	735	860	980	1105	1225	1475	1720	1965
		Ps	.038	.060	.086	.117	.152	.194	.238	.345	.469	.613
		Pt	.048	.076	.108	.148	.192	.244	.300	.435	.592	.772
		Throw*	1-3-11	2-4-14	3-6-16	4-8-19	5-11-21	6-12-23	7-14-24	11-17-26	13-19-28	15-21-30
		Throw	2-4-12	3-7-15	4-9-18	6-10-21	8-12-22	9-13-24	10-15-25	12-18-27	14-21-29	16-22-31
		NC	<15	<15	20	27	32	35	37	41	44	47

PERFORMANCE NOTES FOR SERIES CDP

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

- CFM Cubic Feet per Minute (air)
- fpm Velocity of air stream in Feet per Minute
- Pv Velocity pressure (inches of water column)
- Pt Total pressure (inches of water column)
- Ps Static pressure = Pt-Pv (inches of water column)
- Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities
- Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities
- NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands
- Vn Neck Velocity