

**PERFORMANCE DATA**  
**Ceiling Diffuser Plaque - Round Plaque**  
**MODEL CDP-RP**

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062
24 x 24	6	CFM	80	100	120	135	155	175	195
		Ps	0.005	0.006	0.011	0.016	0.022	0.024	0.026
		Pt	0.015	0.022	0.034	0.045	0.061	0.074	0.087
		Throw*	0-0-2	1-2-2	0-2-2	1-2-4	3-5-9	3-6-9	4-6-10
		Throw	0-1-1	0-2-2	1-2-3	2-3-5	3-5-9	4-5-9	4-7-10
		NC	<15	<15	<15	21	22	24	24
	8	CFM	140	175	210	245	280	315	350
		Ps	0.012	0.020	0.029	0.041	0.052	0.066	0.079
		Pt	0.022	0.035	0.052	0.072	0.092	0.117	0.142
		Throw*	1-1-3	1-3-5	2-3-5	2-3-7	4-6-9	4-7-11	5-8-12
		Throw	1-2-3	1-4-4	2-4-5	3-4-8	4-7-9	4-7-11	5-9-13
		NC	<15	<15	19	22	25	25	28
	10	CFM	220	275	325	380	435	490	545
		Ps	0.022	0.038	0.053	0.072	0.09	0.118	0.146
		Pt	0.032	0.054	0.075	0.102	0.130	0.168	0.208
		Throw*	1-2-4	1-4-8	2-5-8	3-6-10	4-6-12	4-7-13	5-8-14
		Throw	1-2-5	1-5-8	3-6-9	4-6-12	5-7-13	4-8-15	5-9-16
		NC	<15	15	24	26	28	33	35
	12	CFM	315	395	470	550	630	705	785
		Ps	0.045	0.071	0.096	0.122	0.173	0.135	0.269
		Pt	0.055	0.087	0.118	0.153	0.213	0.185	0.331
		Throw*	3-5-7	4-6-10	5-8-12	4-6-12	6-10-14	9-11-14	8-14-17
		Throw	3-6-8	5-7-11	6-9-12	6-7-14	7-12-15	9-12-15	9-15-18
		NC	<15	17	20	22	34	38	40

**PERFORMANCE DATA**
**Ceiling Diffuser Plaque - Round Plaque**
**MODEL GDP-RP**

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062
24 x 24	14	CFM	430	535	640	750	855	960	1070
		Ps	0.073	0.110	0.146	0.181	0.269	0.155	0.415
		Pt	0.083	0.125	0.169	0.212	0.309	0.205	0.478
		Throw*	4-6-7	5-7-11	5-7-12	6-7-13	7-11-15	10-11-15	8-15-19
		Throw	4-7-8	6-8-11	7-10-13	6-8-14	9-12-15	11-15-18	9-15-21
		NC	16	18	21	23	35	39	41
	15	CFM	490	615	735	860	980	1105	1225
		Ps	0.087	0.132	0.175	0.213	0.322	0.167	0.495
		Pt	0.097	0.147	0.197	0.244	0.362	0.217	0.557
		Throw*	4-6-8	5-7-11	6-7-13	6-8-14	8-12-15	10-12-16	10-16-21
		Throw	5-6-8	6-8-13	8-10-14	7-9-15	10-13-16	11-13-17	11-17-22
		NC	17	19	22	24	36	40	42

**PERFORMANCE NOTES FOR SERIES GDP-RP**

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<sup>-12</sup> watts minus a 10dB room attenuation in all octave bands

Vn Neck Velocity