TRUaire® REGISTERS & GRILLES

Performance Data

Single Architectural Plaque Ceiling Diffuser
Model: 2010PD. 2000PD and A2000PD

	Neck Size (in.)	Neck Velocity (fpm)	400	500	600	700	800	900	1000	1200	1400	1600
		Velocity Pressure (in. w.g.)	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.090	0.122	0.160
12" x 12" Ceiling Module Size	6	Total Pressure (in. w.g.)	0.049	0.076	0.109	0.149	0.194	0.246	0.303	0.437	0.594	0.777
		Air Flow (cfm)	78	98	118	137	157	176	196	235	274	314
		Throw (ft.)	2-3-6	2-4-7	3-4-8	3-5-9	4-6-10	4-7-10	5-7-11	6-8-12	7-9-13	8-10-14
		NC (dB)	--	--	--	17	21	24	27	33	38	44
	8	Total Pressure (in. w.g.)	0.070	0.109	0.156	0.123	0.278	0.352	0.434	0.626	0.852	
		Air Flow (cfm)	140	175	209	244	279	314	349	419	489	558
		Throw (ft.)	3-4-8	3-5-10	4-6-11	5-7-12	6-8-13	6-9-14	7-10-15	8-11-16	10-12-17	11-13-18
		NC (dB)	--	--	17	22	26	30	34	39	44	49
24" x 24" Ceiling Module Size	6	Total Pressure (in. w.g.)	0.013	0.021	0.029	0.040	0.520	0.660	0.081	0.117	0.159	0.208
		Air Flow (cfm)	78	98	117	137	157	176	196	235	274	314
		Throw (ft.)	1-1-4	1-2-4	1-3-5	2-3-6	2-4-7	3-4-7	3-4-7	4-5-8	4-6-9	5-7-9
		NC (dB)	--	--	--	--	--	19	22	29	34	38
	8	Total Pressure (in. w.g.)	0.018	0.029	0.042	0.057	0.074	0.093	0.115	0.166	0.226	0.295
		Air Flow (cfm)	139	174	209	244	279	314	349	419	489	558
		Throw (ft.)	2-2-5	2-3-6	2-4-7	3-4-8	3-5-9	4-6-9	4-6-10	5-7-11	6-8-12	7-9-12
		NC (dB)	--	--	--	--	19	23	27	33	38	43
	10	Total Pressure (in. w.g.)	0.029	0.045	0.065	0.088	0.115	0.146	0.180	0.259	0.353	0.461
		Air Flow (cfm)	218	273	327	382	436	491	545	654	763	872
		Throw (ft.)	2-3-6	3-4-8	3-5-9	4-6-10	4-6-11	5-7-12	5-8-12	6-9-13	8-10-14	9-11-15
		NC (dB)	--	--	--	18	22	26	30	36	41	46
	12	Total Pressure (in. w.g.)	0.041	0.065	0.093	0.127	0.166	0.210	0.259	0.373	0.508	0.664
		Air Flow (cfm)	314	393	471	549	628	706	785	942	1099	1256
		Throw (ft.)	3-4-8	3-5-10	4-6-11	5-7-12	5-8-13	6-9-14	7-10-15	8-11-16	9-12-17	11-13-19
		NC (dB)	--	--	15	21	25	29	33	39	44	49
	14	Total Pressure (in. w.g.)	0.057	0.088	0.127	0.173	0.226	0.286	0.353	0.509	0.693	0.905
		Air Flow (cfm)	428	535	641	748	855	962	1069	1283	1497	1710
		Throw (ft.)	3-5-10	4-6-12	5-7-13	6-9-14	6-10-15	7-11-16	8-12-17	10-13-19	11-14-20	12-15-22
		NC (dB)	--	--	18	23	27	31	35	41	46	51

- Throw data is given for isothermal conditions.
- Throw values are given for the terminal velocities of 150, 100 and 50 fpm.
- NC values are based on room absorption of 10dB re 10^{-12} watts.
- Blanks "—" indicate NC value of less than 15dB.
- If the diffuser is mounted on exposed duct, the throw values are 70% of those listed in the table.
- To obtain static pressure, subtract the velocity pressure from the total pressure.

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