

Diffusers • Square Ceiling • Performance Data

Performance Data

TMS • Square Ceiling • Round Neck • High Performance

F
Performance Data

		Neck Velocity	400	500	600	700	800	1000	1200	1400	1600	
		Velocity Pressure	0.010	0.016	0.022	0.031	0.040	0.062	0.090	0.122	0.160	
12" x 12" Module Size	4" Dia.	Airflow, cfm	35	44	52	61	70	87	105	122	140	
		Total Pressure	0.012	0.018	0.026	0.035	0.046	0.072	0.104	0.141	0.184	
		NC (Noise Criteria)	-	-	-	-	12	20	26	31	36	
			Throw feet	1-1-3	1-2-4	1-2-4	2-3-5	2-3-6	2-4-7	3-4-7	3-5-8	4-6-8
	5" Dia.	Airflow, cfm	55	68	82	95	109	136	164	191	218	
		Total Pressure	0.015	0.023	0.033	0.044	0.058	0.091	0.131	0.178	0.232	
		NC (Noise Criteria)	-	-	-	-	15	23	29	34	39	
			Throw feet	1-2-4	2-2-5	2-3-6	2-3-7	2-4-7	3-5-8	4-6-9	4-7-10	5-7-10
	6" Dia.	Airflow, cfm	79	98	118	137	157	196	236	275	314	
		Total Pressure	0.018	0.028	0.041	0.056	0.073	0.114	0.164	0.223	0.291	
		NC (Noise Criteria)	-	-	-	13	18	25	32	37	42	
			Throw feet	2-2-5	2-3-6	2-3-7	3-4-8	3-5-9	4-6-10	5-7-11	5-8-12	6-9-13
7" Dia.	Airflow, cfm	107	134	160	187	214	267	321	374	428		
	Total Pressure	0.020	0.031	0.045	0.062	0.081	0.126	0.181	0.247	0.322		
	NC (Noise Criteria)	-	-	-	15	20	28	34	39	44		
		Throw feet	2-3-5	2-3-7	3-4-8	3-5-9	4-5-10	4-7-12	5-8-13	6-9-14	7-10-15	
8" Dia.	Airflow, cfm	140	175	209	244	279	349	419	489	559		
	Total Pressure	0.022	0.035	0.050	0.069	0.090	0.140	0.202	0.275	0.359		
	NC (Noise Criteria)	-	-	12	17	22	29	36	41	46		
		Throw feet	2-3-6	3-4-8	3-5-9	4-5-11	4-6-12	5-8-13	6-9-14	7-11-16	8-12-17	
24" x 24" Module Size	6" Dia.	Airflow, cfm	79	98	118	137	157	196	236	275	314	
		Total Pressure	0.016	0.025	0.035	0.048	0.063	0.099	0.142	0.193	0.252	
		NC (Noise Criteria)	-	-	-	12	16	22	28	32	36	
			Throw feet	1-2-4	1-2-4	2-3-5	2-3-6	2-4-7	3-4-9	4-5-11	4-6-12	5-7-13
	8" Dia.	Airflow, cfm	140	175	209	244	279	349	419	489	559	
		Total Pressure	0.016	0.025	0.036	0.049	0.064	0.101	0.145	0.197	0.257	
		NC (Noise Criteria)	-	-	11	15	19	26	31	36	40	
			Throw feet	2-3-5	2-3-7	3-4-8	3-5-9	4-5-11	4-7-13	5-8-14	6-9-16	7-11-17
	10" Dia.	Airflow, cfm	218	273	327	382	436	545	654	764	873	
		Total Pressure	0.017	0.026	0.037	0.051	0.066	0.103	0.149	0.202	0.264	
		NC (Noise Criteria)	-	-	14	18	22	29	34	39	43	
			Throw feet	2-4-7	3-5-9	4-5-11	4-6-13	5-7-14	6-9-17	7-11-18	8-13-20	10-14-21
12" Dia.	Airflow, cfm	314	393	471	550	628	785	942	1100	1257		
	Total Pressure	0.017	0.027	0.038	0.052	0.068	0.106	0.153	0.208	0.272		
	NC (Noise Criteria)	-	11	16	21	24	31	36	41	45		
		Throw feet	3-5-9	4-6-11	5-7-14	5-8-16	6-9-18	8-11-20	9-14-22	11-16-23	12-18-25	
14" Dia.	Airflow, cfm	428	535	641	748	855	1069	1283	1497	1710		
	Total Pressure	0.018	0.028	0.040	0.054	0.071	0.110	0.159	0.216	0.282		
	NC (Noise Criteria)	-	13	18	22	26	33	38	43	47		
		Throw feet	4-5-11	5-7-14	5-8-16	6-10-19	7-11-21	9-14-23	11-16-25	13-19-27	14-21-29	
15" Dia.	Airflow, cfm	491	614	736	859	982	1227	1473	1718	1963		
	Total Pressure	0.018	0.028	0.040	0.055	0.072	0.112	0.162	0.220	0.287		
	NC (Noise Criteria)	-	13	19	23	27	34	39	44	48		
		Throw feet	4-6-12	5-7-15	6-9-18	7-10-21	8-12-22	10-15-25	12-18-27	14-21-29	16-22-31	

- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991. Actual performance, with flexible duct inlet, may vary in the field. See the Engineering Guidelines section of this catalog for additional information.
- If the diffuser is mounted on an exposed duct, the throw values are 70% of those listed in the table.

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions. See the section, Engineering Guidelines, for an explanation of catalog throw data.
- NC values based on octave band 2 to 7 sound power levels minus a room absorption of 10 dB.

- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure in any of the octave bands, 2nd through 7th, with a room absorption of 10 dB, re 10-12 watts.
- Dash (-) in space denotes an NC value of less than 10.
- All pressures are given in inches of water.
- To obtain static pressure, subtract the velocity pressure from the total pressure.

