

Performance Data

Model TWR "Twister" • 24 x 24 (600 x 600) Module

Nominal Neck Size	Neck Velocity, fpm	300	400	500	600	700	800	900	1000	1200	1400	1600
	Velocity Pressure	.006	.010	.016	.023	.031	.040	.051	.063	.090	.122	.160
6" Dia.	Total Pressure	.014	.026	.041	.058	.079	.102	.131	.162	.212	.315	.413
	Airflow, cfm	60	80	100	120	140	160	180	200	235	275	315
	Throw	1-1-3	1-2-4	2-3-5	2-3-6	2-4-7	3-4-8	3-5-9	4-5-10	4-6-11	5-7-11	5-8-12
	NC	—	—	—	—	—	16	20	24	30	35	38
8" Dia.	Total Pressure	.015	.027	.042	.060	.082	.107	.136	.168	.242	.329	.430
	Airflow, cfm	105	140	175	210	245	280	315	350	420	490	560
	Throw	2-3-5	2-4-7	3-5-9	4-5-10	4-6-11	5-7-11	5-8-12	6-9-12	7-10-14	8-10-15	9-11-16
	NC	—	—	—	—	17	22	25	29	34	38	40
10" Dia.	Total Pressure	.016	.028	.043	.062	.085	.111	.140	.173	.266	.340	.443
	Airflow, cfm	165	220	270	330	380	435	490	545	655	765	870
	Throw	3-5-9	4-5-10	5-7-11	6-8-12	6-9-13	7-10-14	8-10-16	8-11-18	9-11-19	10-12-20	12-16-22
	NC	—	—	—	16	22	27	31	34	39	44	48
12" Dia.	Total Pressure	.016	.028	.043	.063	.086	.113	.142	.176	.280	.346	.451
	Airflow, cfm	235	315	390	470	550	630	705	785	990	1100	1255
	Throw	4-6-10	5-7-12	6-8-14	7-10-16	8-11-18	9-12-18	10-13-20	11-14-21	13-17-24	15-20-27	17-23-30
	NC	—	—	—	20	25	30	34	37	43	48	53
14" Dia.	Total Pressure	.016	.028	.043	.064	.088	.116	.145	.180	.299	.354	.461
	Airflow, cfm	320	425	530	635	745	850	955	1060	1270	1490	1695
	Throw	5-7-12	7-9-15	8-10-17	9-12-18	10-14-21	12-16-22	13-17-24	15-21-27	17-24-31	19-28-35	21-31-40
	NC	—	17	24	30	34	38	41	44	50	54	57

Performance Notes:

1. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
2. Throws are given at 150, 100 and 50 fpm terminal velocities, under isothermal conditions.

3. NC (Noise Criteria) values are based on 10 dB room absorption, re 10⁻¹² watts. Dash (-) in spaces indicates an NC level of less 15.
4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.

Balancing:

It is recommended that a commercially available 'Flow Hood' is used for field balancing. The airflow meter directly reads average flow rate with great accuracy at all volumes. It is a much faster and more accurate alternative to time consuming multiple velocity readings, eliminating the use of Ak factors and the calculations required to convert the average velocity into airflow.

Neck Size Diameter in Inches	Nominal Overall Face Size	Ak Factor
6	24 x 24	0.181
8	24 x 24	0.264
10	24 x 24	0.330
12	24 x 24	0.458
14	24 x 24	0.521