

TMRA / TMRA-AA

	Neck Velocity	400	500	600	700	800	900	1000	1200	1400
	Velocity Pressure	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.090	0.122
	Total Pressure, Hor.	0.021	0.033	0.047	0.064	0.084	0.106	0.131	0.189	0.257
	Total Pressure, Vert.	0.027	0.043	0.061	0.083	0.109	0.138	0.170	0.245	0.334
6"	Airflow, cfm	80	100	120	140	160	180	200	235	275
	NC, Horizontal	-	15	20	25	29	32	35	41	45
	Horizontal Throw Ft.	2-2-5	2-3-6	2-3-7	3-4-7	3-5-8	3-5-8	4-6-9	4-7-9	5-7-10
8"	Airflow, cfm	140	175	210	245	280	315	350	420	490
	NC, Horizontal	-	16	21	26	30	33	36	42	47
	Horizontal Throw Ft.	2-3-6	2-4-7	3-4-9	3-5-10	4-6-10	4-7-11	5-7-11	6-9-12	7-10-13
10"	Airflow, cfm	218	273	327	382	436	491	545	654	763
	NC, Horizontal	-	17	22	27	31	34	37	43	47
	Horizontal Throw Ft.	2-4-7	3-5-9	4-6-11	4-7-12	5-7-13	6-8-13	6-9-14	7-11-16	9-12-17
12"	Airflow, cfm	315	390	470	550	630	705	785	940	1100
	NC, Horizontal	11	17	23	27	31	35	38	43	48
	Horizontal Throw Ft.	3-4-9	4-6-11	4-7-13	5-8-14	6-9-15	7-10-16	7-11-17	9-13-19	10-14-20
14"	Airflow, cfm	425	530	635	745	850	955	1060	1270	1490
	NC, Horizontal	11	18	23	28	32	35	39	44	49
	Horizontal Throw Ft.	3-5-10	4-6-13	5-8-15	6-9-17	7-10-18	8-12-19	9-13-20	10-15-22	12-17-23
16"	Airflow, cfm	560	700	840	980	1120	1260	1400	1680	1960
	NC, Horizontal	12	18	24	28	32	36	39	45	49
	Horizontal Throw Ft.	4-6-12	5-7-15	6-9-18	7-10-19	8-12-20	9-13-22	10-15-23	12-18-25	14-19-27
18"	Airflow, cfm	710	885	1060	1240	1420	1590	1770	2120	2480
	NC, Horizontal	12	19	24	29	33	36	40	45	50
	Horizontal Throw Ft.	4-7-13	6-8-17	7-10-20	8-12-21	9-13-23	10-15-24	11-17-26	13-20-28	16-21-30
20"	Airflow, cfm	875	1100	1310	1530	1750	1970	2190	2610	3060
	NC, Horizontal	13	19	25	29	33	37	40	45	50
	Horizontal Throw Ft.	5-7-15	6-9-19	7-11-22	9-13-24	10-15-25	11-17-27	12-19-28	15-22-31	17-24-34
24"	Airflow, cfm	1260	1570	1880	2200	2510	2820	3140	3770	4400
	NC, Horizontal	13	20	25	30	34	38	41	46	51
	Horizontal Throw Ft.	6-9-18	7-11-22	9-13-26	10-16-29	12-18-30	13-20-32	15-22-34	18-26-37	21-29-40
30"	Airflow, cfm	1960	2450	2940	3430	3920	4410	4900	5880	6860
	NC, Horizontal	14	21	26	31	35	38	42	47	52
	Horizontal Throw Ft.	7-11-22	9-14-28	11-17-33	13-20-36	15-22-38	17-25-40	19-28-43	22-33-47	26-36-50
36"	Airflow, cfm	2820	3520	4230	4930	5630	6340	7040	8450	9850
	NC, Horizontal	15	22	27	32	36	39	42	48	52
	Horizontal Throw Ft.	9-13-27	11-17-33	13-20-40	16-23-43	18-27-46	20-30-48	22-33-51	27-40-56	31-43-60

Downward Projection of Heated Air, Ft.										
Neck Velocity	400	500	600	700	800	900	1000	1200	1400	
10° F Differential	6-6-3	8-8-6	10-12-11	13-15-16	15-19-24	17-23-28	19-25-33	21-32-42	25-38-52	
20° F Differential	4-4-2	6-7-5	7-8-7	9-11-11	10-14-16	12-16-20	13-18-24	15-17-30	17-25-36	
30° F Differential	3-3-2	5-5-4	6-7-6	7-9-9	9-11-13	10-13-16	11-15-19	13-18-25	14-20-30	
40° F Differential	3-2-2	4-4-3	5-6-6	7-8-9	8-10-12	9-12-15	10-13-17	11-16-22	12-18-27	

Note: The three neck velocity values used are for 6-, 12- and 24" diffusers respectively

- All pressures are given in inches of water
- Throw values are given for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions
- To obtain static pressure, subtract the velocity pressure from the total pressure
- If the diffuser is mounted on an exposed duct, the throw values are 70 percent of those listed in the table
- Each NC value represents the noise criteria curve that 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<sup>-12</sup> watts
- Dash (-) in space denotes an NC value of less than 10
- Add 1 NC for vertical setting
- Downward projection of heated air values represent the distance to a total air velocity of essentially zero
- Data obtained from tests conducted in accordance with ANSI / ASHRAE Standard 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the section Engineering Guidelines of this catalog for additional information.
- For an explanation of catalog throw data, see the section, Engineering Guidelines