TMRA,TMRA-AA

SIZE										
	Neck Velocity m/s	2.0	2.5	3.0	3.6	4.1	4.6	5.1	6.1	7.1
	Velocity Pressure Pa	2	4	6	8	10	13	16	22	30
	Total Pressure, Hor. Pa	5	8	12	16	21	26	33	47	64
	Total Pressure, Vert. Pa	7	11	15	21	27	34	42	61	83
6	Air Flow, l/s	38	47	57	66	76	85	94	111	130
	NC (Noise Criteria), Hor.	-	15	20	25	29	32	35	41	45
	Horizontal Throw m	0.5 - 0.5 - 1.5	0.5 - 1 - 1.8	0.5 - 1 - 2.3	1 - 1.3 - 2.3	1 - 1.5 - 2.5	1 - 1.5 - 2.5	1.3 - 1.8 - 2.8	1.3 - 2.3 - 2.8	1.5 - 2.3 - 3
8	Air Flow, l/s	66	83	99	116	132	149	165	198	231
	NC (Noise Criteria), Hor.	-	16	21	26	30	33	36	42	47
	Horizontal Throw m	0.5 - 1 - 1.8	0.5 - 1.3 - 2.3	1 - 1.3 - 2.8	1 - 1.5 - 3	1.3 - 1.8 - 3	1.3 - 2.3 - 3.3	1.5 - 2.3 - 3.3	1.8 - 2.8 - 3.8	2.3 - 3 - 4
10	Air Flow, l/s	103	129	154	180	206	232	257	309	360
	NC (Noise Criteria), Hor.	-	17	22	27	31	34	37	43	47
	Horizontal Throw m	0.5 - 1.3 - 2.3	1 - 1.5 - 2.8	1.3 - 1.8 - 3.3	1.3 - 2.3 - 3.8	1.5 - 2.3 - 4	1.8 - 2.5 - 4	1.8 - 2.8 - 4.3	2.3 - 3.3 - 5	2.8 - 3.8 - 5.3
12	Air Flow, l/s	149	184	222	260	297	333	370	444	519
	NC (Noise Criteria), Hor.	11	17	23	27	31	35	38	43	48
	Horizontal Throw m	1 - 1.3 - 2.8	1.3 - 1.8 - 3.3	1.3 - 2.3 - 4	1.5 - 2.5 - 4.3	1.8 - 2.8 - 4.5	2.3 - 3 - 5	2.3 - 3.3 - 5.3	2.8 - 4 - 5.8	3 - 4.3 - 6
14	Air Flow, l/s	201	250	300	352	401	451	500	599	703
	NC (Noise Criteria), Hor.	11	18	23	28	32	35	39	44	49
	Horizontal Throw m	1 - 1.5 - 3	1.3 - 1.8 - 4	1.5 - 2.5 - 4.5	1.8 - 2.8 - 5.3	2.3 - 3 - 5.5	2.5 - 3.8 - 5.8	2.8 - 4 - 6	3 - 4.5 - 6.8	3.8 - 5.3 - 7
16	Air Flow, l/s	264	330	396	463	529	595	661	793	925
	NC (Noise Criteria), Hor.	12	18	24	28	32	36	39	45	49
	Horizontal Throw m	1.3 - 1.8 - 3.8	1.5 - 2.3 - 4.5	1.8 - 2.8 - 5.5	2.3 - 3 - 5.8	2.5 - 3.8 - 6	2.8 - 4 - 6.8	3 - 4.5 - 7	3.8 - 5.5 - 7.5	4.3 - 5.8 - 8.3
18	Air Flow, l/s	335	418	500	585	670	750	835	1001	1170
	NC (Noise Criteria), Hor.	12	19	24	29	33	36	40	45	50
	Horizontal Throw m	1.3 - 2.3 - 4	1.8 - 2.5 - 5.3	2.3 - 3 - 6	2.5 - 3.8 - 6.5	2.8 - 4 - 7	3 - 4.5 - 7.3	3.3 - 5.3 - 8	4 - 6 - 8.5	5 - 6.5 - 9.3
20	Air Flow, l/s	413	519	618	722	826	930	1034	1232	1444
	NC (Noise Criteria), Hor.	13	19	25	29	33	37	40	45	50
	Horizontal Throw m	1.5 - 2.3 - 4.5	1.8 - 2.8 - 5.8	2.3 - 3.3 - 6.8	2.8 - 4 - 7.3	3 - 4.5 - 7.5	3.3 - 5.3 - 8.3	3.8 - 5.8 - 8.5	4.5 - 6.8 - 9.5	5.3 - 7.3 - 10.3
24	Air Flow, l/s	595	741	887	1038	1185	1331	1482	1779	2077
	NC (Noise Criteria), Hor.	13	20	25	30	34	38	41	46	51
	Horizontal Throw m	1.8 - 2.8 - 5.5	2.3 - 3.3 - 6.8	2.8 - 4 - 8	3 - 5 - 8.8	3.8 - 5.5 - 9.3	4 - 6 - 9.8	4.5 - 6.8 - 10.3	5.5 - 8 - 11.3	6.5 - 8.8 - 12.3
30	Air Flow, l/s	925	1156	1388	1619	1850	2081	2313	2775	3238
	NC (Noise Criteria), Hor.	14	21	26	31	35	38	42	47	52
	Horizontal Throw m	2.3 - 3.3 - 6.8	2.8 - 4.3 - 8.5	3.3 - 5.3 - 10	4 - 6 - 11	4.5 - 6.8 - 11.5	5.3 - 7.5 - 12.3	5.8 - 8.5 - 13	6.8 - 10 - 14.3	8 - 11 - 15.3
36	Air Flow, l/s	1331	1661	1996	2327	2657	2992	3323	3988	4649
	NC (Noise Criteria), Hor.	15	22	27	32	36	39	42	48	52
	Horizontal Throw m	2.8 - 4 - 8.3	3.3 - 5.3 - 10	4 - 6 - 12.3	5 - 7 - 13	5.5 - 8.3 - 14	6 - 9.3 - 14.8	6.8 - 10 - 15.5	8.3 - 12.3 - 17	9.5 - 13 - 18.3

Downward Projection of Heated Air, m									
Neck Velocity m/s	2.0	2.5	3.0	3.6	4.1	4.6	5.1	6.1	7.1
5.6° C Differential	1.8 - 1.8 - 1	2.5 - 2.5 - 1.8	3 - 3.8 - 3.3	4 - 4.5 - 5	4.5 - 5.8 - 7.3	5.3 - 7 - 8.5	5.8 - 7.5 - 10	6.5 - 9.8 - 12.8	7.5 - 11.5 - 15.8
11.2° C Differential	1.3 - 1.3 - 0.5	1.8 - 2.3 - 1.5	2.3 - 2.5 - 2.3	2.8 - 3.3 - 3.3	3 - 4.3 - 5	3.8 - 5 - 6	4 - 5.5 - 7.3	4.5 - 5.3 - 9.3	5.3 - 7.5 - 11
16.7° C Differential	1 - 1 - 0.5	1.5 - 1.5 - 1.3	1.8 - 2.3 - 1.8	2.3 - 2.8 - 2.8	2.8 - 3.3 - 4	3 - 4 - 5	3.3 - 4.5 - 5.8	4 - 5.5 - 7.5	4.3 - 6 - 9.3
22.2° C Differential	1 - 0.5 - 0.5	1.3 - 1.3 - 1	1.5 - 1.8 - 1.8	2.3 - 2.5 - 2.8	2.5 - 3 - 3.8	2.8 - 3.8 - 4.5	3 - 4 - 5.3	3.3 - 5 - 6.8	3.8 - 5.5 - 8.3

All pressures are given in Pa.

Throw values are given for terminal velocities of 0.8, 0.5, and 0.3 m/s

Throw Values are given 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% of those listed in the table.

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 10dB, re 10-12 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. The three values are for sizes 6 - 12 - 24 diffusers respectively, for the neck velocities shown above.

Data were obtained from test conducted in accordance with ANSI / ASHRAE Standard 70-1991, ISO Standard 5219, and ISO Standard 3741.

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric • contact factory for availability of sizes •

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