


**1450/51450/M1450/M51450 PERFORMANCE DATA: HORIZONTAL THROW**
**▼ IP/METRIC DATA: 1450/51450/M1450/M51450, 12"x12" & 300x300mm PANEL (NO DAMPER)**

	IP Data						NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Pt	Ps	Throw	Neck Vel		Air Flow	Pt	Ps	Throw	2	3	4	5	6	7		
	FPM	CFM	"WG	"WG	ft	m/s		L/s	Pa	Pa	m								
<b>6" Dia.</b>	200	39	.009	0.006	1 - 2 - 4	-	1.02	19	2.2	1.6	0.4 - 0.7 - 1.4	28	-	-	-	-	-		
	300	59	.020	0.015	2 - 3 - 7	-	1.52	28	5.0	3.6	0.7 - 1.0 - 2.0	32	-	-	-	-	-		
	500	98	.056	0.040	4 - 6 - 9	-	2.54	46	13.9	10.1	1.1 - 1.7 - 2.9	37	22	18	17	-	-		
	600	118	.081	0.058	4 - 7 - 10	-	3.05	56	20.1	14.5	1.4 - 2.0 - 3.1	38	27	23	22	17	-		
	700	137	.110	0.079	5 - 8 - 11	<b>15</b>	3.56	65	27.3	19.7	1.6 - 2.4 - 3.4	40	31	27	26	23	-		
	800	157	.143	0.103	6 - 8 - 12	<b>20</b>	4.06	74	35.7	25.7	1.8 - 2.6 - 3.6	41	34	30	29	29	13		
	900	177	.181	0.131	7 - 9 - 13	<b>25</b>	4.57	83	45.1	32.6	2.0 - 2.7 - 3.9	42	37	33	33	34	18		
	1000	196	.224	0.161	7 - 9 - 13	<b>30</b>	5.08	93	55.7	40.2	2.3 - 2.9 - 4.1	43	39	36	36	39	23		
	1100	216	.271	0.195	8 - 10 - 14	<b>34</b>	5.59	102	67.4	48.6	2.5 - 3.0 - 4.3	44	42	38	38	43	27		
<b>8" Dia.</b>	200	70	.020	0.018	2 - 3 - 6	-	1.02	33	5.1	4.4	0.5 - 0.9 - 1.8	37	14	11	-	-	-		
	300	105	.046	0.040	3 - 4 - 9	-	1.52	49	11.4	10.0	0.9 - 1.4 - 2.7	41	24	21	15	-	-		
	400	140	.081	0.071	4 - 6 - 11	-	2.03	66	20.2	17.8	1.2 - 1.8 - 3.4	43	31	28	23	14	-		
	500	175	.127	0.111	5 - 7 - 13	<b>16</b>	2.54	82	31.6	27.7	1.5 - 2.3 - 3.8	45	36	34	29	24	13		
	600	209	.183	0.160	6 - 9 - 14	<b>23</b>	3.05	99	45.5	39.9	1.8 - 2.7 - 4.2	47	41	38	34	32	21		
	700	244	.249	0.218	7 - 10 - 15	<b>30</b>	3.56	115	62.0	54.4	2.1 - 3.2 - 4.5	49	45	42	38	38	28		
	800	279	.325	0.285	8 - 11 - 16	<b>35</b>	4.06	132	80.9	71.0	2.4 - 3.4 - 4.8	50	48	46	42	44	34		
	900	314	.411	0.361	9 - 12 - 17	<b>40</b>	4.57	148	102.4	89.9	2.7 - 3.6 - 5.1	51	51	49	45	49	39		
	1000	349	.508	0.446	10 - 13 - 18	<b>45</b>	5.08	165	126.5	110.9	3.0 - 3.8 - 5.4	52	53	51	48	54	44		

► Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> watts. Dash (-) in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See K-Select program for performance data not shown, including octave band data.

LOUVERED FACE DIFFUSERS

1450 - 51450



1450/51450/M1450/M51450 PERFORMANCE DATA: HORIZONTAL THROW

▼ IP/METRIC DATA: 1450/51450/M1450/M51450, 24"x24" & 600x600mm PANEL (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Pt	Ps	Throw		Neck Vel	Air Flow	Pt	Ps	Throw	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m							
6" Dia.	200	39	.005	0.003	0 - 1 - 3	-	1.02	19	1.3	0.6	0.1 - 0.3 - 0.9	14	-	-	-	-	-	
	300	59	.011	0.006	1 - 2 - 4	-	1.52	28	2.9	1.5	0.3 - 0.6 - 1.3	21	13	-	-	-	-	
	500	98	.032	0.016	2 - 4 - 7	-	2.54	46	7.9	4.0	0.7 - 1.1 - 2.1	31	24	22	17	-	-	
	600	118	.046	0.023	3 - 4 - 8	-	3.05	56	11.4	5.8	0.9 - 1.3 - 2.3	34	28	27	23	-	-	
	700	137	.062	0.032	3 - 5 - 8	15	3.56	65	15.5	7.9	1.0 - 1.5 - 2.5	37	31	31	27	15	-	
	800	157	.081	0.042	4 - 6 - 9	19	4.06	74	20.3	10.3	1.1 - 1.7 - 2.7	39	34	34	31	20	11	
	900	177	.103	0.053	4 - 6 - 9	23	4.57	83	25.7	13.1	1.3 - 1.9 - 2.9	41	37	37	34	24	15	
	1000	196	.127	0.065	5 - 7 - 10	26	5.08	93	31.7	16.2	1.4 - 2.1 - 3.0	43	39	40	37	28	19	
	1100	216	.154	0.079	5 - 7 - 10	29	5.59	102	38.3	19.6	1.6 - 2.2 - 3.2	45	41	42	40	32	22	
8" Dia.	200	70	.006	0.003	1 - 1 - 4	-	1.02	33	1.5	0.9	0.2 - 0.3 - 1.1	17	-	-	-	-	-	
	300	105	.013	0.008	1 - 3 - 6	-	1.52	49	3.3	1.9	0.3 - 0.8 - 1.7	24	16	12	-	-	-	
	500	175	.037	0.022	3 - 5 - 9	-	2.54	82	9.3	5.4	0.9 - 1.4 - 2.8	33	27	25	21	-	-	
	600	209	.054	0.031	4 - 6 - 10	14	3.05	99	13.3	7.8	1.1 - 1.7 - 3.1	37	31	30	26	15	-	
	700	244	.073	0.042	4 - 7 - 11	19	3.56	115	18.2	10.6	1.3 - 2.0 - 3.4	39	34	34	31	20	11	
	800	279	.095	0.055	5 - 7 - 12	23	4.06	132	23.7	13.8	1.5 - 2.3 - 3.6	42	37	37	34	25	16	
	900	314	.121	0.070	6 - 8 - 13	27	4.57	148	30.0	17.4	1.7 - 2.6 - 3.8	44	40	40	38	29	20	
	1000	349	.149	0.086	6 - 9 - 13	30	5.08	165	37.1	21.5	1.9 - 2.8 - 4.0	46	42	43	41	33	24	
	1100	384	.180	0.105	7 - 10 - 14	33	5.59	181	44.8	26.1	2.1 - 3.0 - 4.2	47	45	45	44	37	27	
10" Dia.	200	109	.007	0.005	1 - 1 - 5	-	1.02	51	1.8	1.1	0.2 - 0.4 - 1.4	19	-	-	-	-	-	
	300	164	.016	0.010	1 - 3 - 7	-	1.52	77	4.0	2.6	0.4 - 1.0 - 2.1	26	18	14	-	-	-	
	500	273	.044	0.029	4 - 6 - 12	11	2.54	129	11.0	7.1	1.2 - 1.8 - 3.5	35	29	27	23	12	-	
	600	327	.064	0.041	5 - 7 - 13	17	3.05	154	15.8	10.2	1.4 - 2.1 - 3.9	39	33	32	29	19	-	
	700	382	.087	0.056	5 - 8 - 14	22	3.56	180	21.5	13.9	1.7 - 2.5 - 4.2	41	37	36	33	24	15	
	800	436	.113	0.073	6 - 9 - 15	26	4.06	206	28.1	18.2	1.9 - 2.8 - 4.5	44	40	39	37	29	19	
	900	491	.143	0.093	7 - 11 - 16	30	4.57	232	35.6	23.0	2.1 - 3.2 - 4.8	46	42	42	40	34	24	
	1000	545	.177	0.114	8 - 12 - 17	33	5.08	257	44.0	28.4	2.4 - 3.5 - 5.0	48	45	45	43	37	27	
	1100	600	.214	0.138	9 - 12 - 17	36	5.59	283	53.2	34.4	2.6 - 3.7 - 5.3	50	47	47	46	41	31	
12" Dia.	200	157	.008	0.006	1 - 2 - 6	-	1.02	74	2.1	1.5	0.2 - 0.5 - 1.7	21	11	-	-	-	-	
	300	236	.019	0.013	2 - 4 - 8	-	1.52	111	4.7	3.3	0.5 - 1.2 - 2.6	28	20	16	11	-	-	
	500	393	.053	0.037	5 - 7 - 14	14	2.54	185	13.1	9.2	1.4 - 2.1 - 4.3	37	31	29	26	15	-	
	600	471	.076	0.053	6 - 8 - 15	19	3.05	222	18.9	13.3	1.7 - 2.6 - 4.7	40	35	34	31	22	12	
	700	550	.103	0.073	7 - 10 - 17	24	3.56	259	25.7	18.1	2.0 - 3.0 - 5.1	43	39	38	35	28	18	
	800	628	.135	0.095	7 - 11 - 18	28	4.06	297	33.5	23.6	2.3 - 3.4 - 5.4	46	42	41	39	33	22	
	900	707	.170	0.120	8 - 13 - 19	32	4.57	334	42.4	29.9	2.6 - 3.8 - 5.7	48	44	44	43	37	27	
	1000	785	.210	0.148	9 - 14 - 20	36	5.08	371	52.4	36.9	2.8 - 4.3 - 6.1	50	47	47	46	41	30	
	1100	864	.255	0.179	10 - 15 - 21	39	5.59	408	63.4	44.6	3.1 - 4.5 - 6.4	51	49	49	48	44	34	
14" Dia.	200	214	.010	0.008	1 - 2 - 7	-	1.02	101	2.5	1.9	0.3 - 0.6 - 2.0	22	13	-	-	-	-	
	300	321	.023	0.017	2 - 4 - 10	-	1.52	151	5.6	4.2	0.6 - 1.4 - 3.0	30	22	18	13	-	-	
	400	428	.040	0.030	4 - 7 - 13	-	2.03	202	10.0	7.5	1.1 - 2.0 - 4.0	35	28	25	21	-	-	
	500	535	.063	0.047	5 - 8 - 16	16	2.54	252	15.6	11.7	1.7 - 2.5 - 5.0	39	33	31	27	18	-	
	600	641	.090	0.068	7 - 10 - 18	21	3.05	303	22.5	16.9	2.0 - 3.0 - 5.5	42	37	35	33	25	15	
	700	748	.123	0.092	8 - 11 - 19	26	3.56	353	30.6	23.0	2.3 - 3.5 - 5.9	45	41	39	37	30	20	
	800	855	.160	0.120	9 - 13 - 21	31	4.06	404	39.9	30.0	2.6 - 4.0 - 6.3	47	43	42	41	35	25	
	900	962	.203	0.152	10 - 15 - 22	34	4.57	454	50.5	38.0	3.0 - 4.5 - 6.7	49	46	45	44	40	29	
	1000	1069	.251	0.188	11 - 16 - 23	38	5.08	505	62.4	46.9	3.3 - 5.0 - 7.1	51	48	48	47	44	33	
15" Dia.	200	245	.011	0.008	1 - 2 - 7	-	1.02	116	2.7	2.1	0.3 - 0.6 - 2.1	23	13	-	-	-	-	
	300	368	.025	0.019	2 - 5 - 11	-	1.52	174	6.1	4.7	0.6 - 1.5 - 3.2	30	22	18	13	-	-	
	400	491	.044	0.034	4 - 7 - 14	-	2.03	232	10.9	8.4	1.1 - 2.1 - 4.3	35	29	26	22	11	-	
	500	614	.068	0.053	6 - 9 - 18	16	2.54	290	17.0	13.1	1.8 - 2.7 - 5.3	39	34	31	28	19	-	
	600	736	.098	0.076	7 - 11 - 19	22	3.05	347	24.5	18.9	2.1 - 3.2 - 5.9	43	38	36	34	26	16	
	700	859	.134	0.103	8 - 12 - 21	27	3.56	405	33.3	25.7	2.5 - 3.7 - 6.3	45	41	40	38	32	21	
	800	982	.175	0.135	9 - 14 - 22	31	4.06	463	43.5	33.5	2.8 - 4.3 - 6.8	48	44	43	42	37	26	
	900	1104	.221	0.171	11 - 16 - 24	35	4.57	521	55.0	42.5	3.2 - 4.8 - 7.2	50	47	46	45	41	30	
	1000	1227	.273	0.211	12 - 18 - 25	39	5.08	579	67.9	52.4	3.5 - 5.3 - 7.6	52	49	49	48	45	34	

► Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10<sup>-12</sup> watts. Dash (-) in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See K-Select program for performance data not shown, including octave band data.

LOUVERED FACE DIFFUSERS

1450 - 51450