

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						
6" Dia.	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	15	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	20	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	25	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	30	5.08	93	55.7	40.2	2.3 - 2.9 - 4.1	43	39	36	36	39	23
8" Dia.	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	16	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	23	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	30	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	35	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	40	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	45	5.08	165	126.5	110.9	3.0 - 3.8 - 5.4	52	53	51	48	54	44	

NOTES: 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 10⁻¹² 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 Krueger's selection software for performance data not shown, including octave band data.

LOUVERED FACE DIFFUSERS

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B1 LOUVERED FACE DIFFUSERS

1450, 51450 Series | 3-Cone



1450, 51450, M1450, M51450 Performance Data: Horizontal Throw

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

LOUVERED FACE DIFFUSERS

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Pt	Ps	Throw		Neck Vel	Air Flow	Pt	Ps	Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
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		

NOTES: 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 10⁻¹² 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 Krueger's selection software for performance data not shown, including octave band data.

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