

1400, 51400, 1400FR, M1400, M51400 Performance Data: Horizontal Throw

IP/METRIC DATA: 1400, 51400, M1400, M51400, 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 - 1 - 4	-	1.02	19	2.2	1.6	0.2 - 0.4 - 1.3	21	-	-	-	-	-	
	400	79	.036	0.026	2 - 4 - 8	-	2.03	37	8.9	6.4	0.7 - 1.3 - 2.5	31	26	17	15	-	-	
	600	118	.081	0.058	4 - 6 - 10	14	3.05	56	20.1	14.5	1.3 - 1.9 - 3.1	37	35	27	26	23	-	
	700	137	.110	0.079	5 - 7 - 11	21	3.56	65	27.3	19.7	1.5 - 2.3 - 3.3	40	38	31	30	29	11	
	800	157	.143	0.103	6 - 8 - 12	26	4.06	74	35.6	25.7	1.7 - 2.5 - 3.5	41	41	34	34	35	18	
	1000	196	.224	0.161	7 - 9 - 13	35	5.08	93	55.7	40.2	2.2 - 2.8 - 4.0	45	47	40	40	44	30	
	1200	236	.322	0.232	8 - 10 - 14	42	6.10	111	80.2	57.9	2.5 - 3.1 - 4.3	48	51	44	45	51	39	
	1300	255	.378	0.273	9 - 11 - 15	45	6.60	120	94.1	67.9	2.6 - 3.2 - 4.5	49	53	46	47	55	43	
1400	275	.438	0.316	9 - 11 - 15	48	7.11	130	109.2	78.7	2.7 - 3.3 - 4.7	50	54	48	49	58	47		
8" Dia.	200	70	.013	0.010	1 - 2 - 6	-	1.02	33	3.2	2.6	0.2 - 0.5 - 1.7	23	15	-	-	-	-	
	300	105	.029	0.023	2 - 4 - 9	-	1.52	49	7.2	5.8	0.5 - 1.2 - 2.6	29	25	16	-	-	-	
	500	175	.081	0.065	5 - 7 - 12	-	2.54	82	20.1	16.2	1.4 - 2.2 - 3.7	37	37	28	24	17	-	
	700	244	.158	0.127	7 - 10 - 15	23	3.56	115	39.3	31.7	2.0 - 3.0 - 4.4	42	44	37	33	31	20	
	800	279	.206	0.166	8 - 11 - 16	28	4.06	132	51.3	41.4	2.3 - 3.3 - 4.7	44	47	40	37	37	27	
	900	314	.261	0.210	9 - 12 - 17	33	4.57	148	65.0	52.4	2.6 - 3.5 - 5.0	46	50	43	40	42	33	
	1000	349	.322	0.260	9 - 12 - 17	37	5.08	165	80.2	64.7	2.9 - 3.7 - 5.3	47	52	46	43	46	38	
	1200	419	.464	0.374	11 - 13 - 19	44	6.10	198	115.5	93.1	3.3 - 4.1 - 5.8	50	57	51	48	54	48	
1400	489	.631	0.509	12 - 15 - 21	50	7.11	231	157.2	126.8	3.6 - 4.4 - 6.3	52	60	54	52	60	56		

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

 1
4
0
0
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1
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1400, 51400 Series | 4-Cone

1400, 51400, 1400FR, M1400, M51400 Performance Data: Horizontal Throw

IP/METRIC DATA: 1400, 51400, 1400FR, M1400, M51400, 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	2	3	4	5	6	7	
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m							
6" Dia.	400	79	.016	0.006	2 - 4 - 7	-	2.03	37	4.1	1.6	0.6 - 1.1 - 2.2	15	13	16	-	-	-	
	600	118	.037	0.015	4 - 6 - 9	-	3.05	56	9.2	3.6	1.1 - 1.7 - 2.7	26	24	25	22	-	-	
	800	157	.066	0.026	5 - 7 - 10	12	4.06	74	16.4	6.5	1.5 - 2.2 - 3.1	35	31	32	30	18	-	
	1000	196	.103	0.041	6 - 8 - 11	19	5.08	93	25.6	10.1	1.9 - 2.5 - 3.5	41	36	37	37	29	14	
	1200	236	.148	0.058	7 - 9 - 13	25	6.10	111	36.9	14.5	2.2 - 2.7 - 3.8	46	41	41	42	39	22	
	1400	275	.202	0.079	8 - 10 - 14	29	7.11	130	50.2	19.8	2.4 - 2.9 - 4.1	50	45	45	46	46	28	
	1600	314	.263	0.104	8 - 10 - 14	34	8.13	148	65.6	25.8	2.5 - 3.1 - 4.4	54	48	48	50	53	33	
	2000	393	.412	0.162	9 - 11 - 16	40	10.16	185	102.5	40.4	2.8 - 3.5 - 4.9	60	54	53	57	64	43	
	2200	432	.498	0.196	10 - 12 - 17	43	11.18	204	124.0	48.9	3.0 - 3.7 - 5.2	63	56	55	60	69	46	
8" Dia.	200	70	.006	0.003	1 - 2 - 5	-	1.02	33	1.4	0.8	0.2 - 0.5 - 1.5	-	-	-	-	-	-	
	400	140	.023	0.013	3 - 5 - 10	-	2.03	66	5.7	3.2	0.9 - 1.5 - 2.9	20	18	20	15	-	-	
	600	209	.051	0.029	5 - 7 - 12	11	3.05	99	12.8	7.2	1.5 - 2.3 - 3.6	31	28	29	27	12	-	
	800	279	.091	0.051	7 - 10 - 14	20	4.06	132	22.7	12.8	2.0 - 2.9 - 4.2	40	35	36	35	26	12	
	1000	349	.142	0.080	8 - 11 - 15	27	5.08	165	35.5	19.9	2.5 - 3.3 - 4.6	46	41	41	42	38	21	
	1200	419	.205	0.115	10 - 12 - 17	32	6.10	198	51.1	28.7	2.9 - 3.6 - 5.1	51	46	45	47	47	29	
	1400	489	.279	0.157	10 - 13 - 18	37	7.11	231	69.5	39.1	3.2 - 3.9 - 5.5	55	50	48	52	54	35	
	1600	559	.365	0.205	11 - 14 - 19	41	8.13	264	90.8	51.0	3.4 - 4.2 - 5.9	59	53	51	56	61	40	
	1800	628	.461	0.259	12 - 14 - 20	45	9.14	297	114.9	64.6	3.6 - 4.4 - 6.2	62	56	54	59	67	45	
10" Dia.	200	109	.008	0.005	1 - 2 - 6	-	1.02	51	1.9	1.3	0.3 - 0.6 - 1.9	-	-	-	-	-	-	
	400	218	.031	0.021	4 - 6 - 12	-	2.03	103	7.7	5.2	1.1 - 1.9 - 3.7	24	22	23	19	-	-	
	500	273	.048	0.033	5 - 8 - 14	12	2.54	129	12.0	8.1	1.6 - 2.3 - 4.1	30	27	28	26	-	-	
	600	327	.070	0.047	6 - 9 - 15	17	3.05	154	17.3	11.7	1.9 - 2.8 - 4.5	35	32	32	31	18	-	
	800	436	.124	0.084	8 - 12 - 17	26	4.06	206	30.8	20.9	2.5 - 3.7 - 5.2	43	39	39	40	33	17	
	1000	545	.193	0.131	10 - 14 - 19	33	5.08	257	48.1	32.6	3.1 - 4.1 - 5.8	50	45	44	46	44	27	
	1200	654	.278	0.188	12 - 15 - 21	38	6.10	309	69.3	46.9	3.7 - 4.5 - 6.4	55	49	48	51	53	34	
	1400	764	.379	0.256	13 - 16 - 23	43	7.11	360	94.3	63.9	4.0 - 4.9 - 6.9	59	53	51	56	61	40	
	1600	873	.495	0.335	14 - 17 - 24	47	8.13	412	123.1	83.4	4.2 - 5.2 - 7.3	63	56	54	60	67	46	
12" Dia.	200	157	.010	0.008	1 - 2 - 7	-	1.02	74	2.5	1.9	0.3 - 0.7 - 2.3	-	-	-	-	-	-	
	300	236	.023	0.017	2 - 5 - 11	-	1.52	111	5.7	4.3	0.7 - 1.6 - 3.4	19	17	19	14	-	-	
	500	393	.064	0.048	6 - 9 - 16	17	2.54	185	15.9	12.0	1.9 - 2.8 - 4.9	33	30	30	29	14	-	
	700	550	.125	0.095	9 - 13 - 19	27	3.56	259	31.1	23.5	2.6 - 3.9 - 5.8	43	39	38	39	31	16	
	800	628	.163	0.123	10 - 14 - 20	31	4.06	297	40.7	30.7	3.0 - 4.4 - 6.2	47	42	41	43	38	22	
	900	707	.207	0.156	11 - 15 - 22	34	4.57	334	51.5	38.9	3.4 - 4.7 - 6.6	50	45	44	46	44	27	
	1000	785	.255	0.193	12 - 16 - 23	38	5.08	371	63.6	48.0	3.8 - 4.9 - 7.0	53	48	46	49	49	31	
	1200	942	.368	0.278	14 - 18 - 25	43	6.10	445	91.5	69.2	4.4 - 5.4 - 7.6	58	52	50	55	58	38	
	1400	1100	.500	0.378	16 - 19 - 27	48	7.11	519	124.6	94.2	4.8 - 5.8 - 8.2	62	56	54	59	66	45	
14" Dia.	200	214	.013	0.011	1 - 3 - 9	-	1.02	101	3.3	2.7	0.4 - 0.8 - 2.6	-	-	11	-	-	-	
	300	321	.030	0.024	3 - 6 - 13	-	1.52	151	7.4	6.0	0.8 - 1.9 - 3.9	22	20	21	17	-	-	
	400	428	.053	0.043	5 - 9 - 17	14	2.03	202	13.1	10.6	1.5 - 2.6 - 5.1	30	27	27	26	-	-	
	500	535	.082	0.067	7 - 11 - 19	21	2.54	252	20.5	16.6	2.2 - 3.3 - 5.7	36	33	32	32	18	-	
	600	641	.118	0.096	9 - 13 - 21	26	3.05	303	29.5	23.9	2.6 - 3.9 - 6.3	41	37	36	37	27	14	
	700	748	.161	0.130	10 - 15 - 22	31	3.56	353	40.1	32.5	3.1 - 4.6 - 6.8	46	41	40	42	35	20	
	800	855	.210	0.170	12 - 17 - 24	35	4.06	404	52.4	42.4	3.5 - 5.1 - 7.3	49	44	43	46	42	26	
	1000	1069	.329	0.266	14 - 19 - 27	42	5.08	505	81.8	66.3	4.4 - 5.7 - 8.1	56	50	48	52	53	35	
	1200	1283	.473	0.383	17 - 21 - 29	47	6.10	605	117.8	95.5	5.1 - 6.3 - 8.9	61	55	52	57	62	42	
15" Dia.	200	245	.015	0.012	1 - 3 - 9	-	1.02	116	3.7	3.1	0.4 - 0.9 - 2.8	12	11	12	-	-	-	
	300	368	.033	0.028	3 - 7 - 14	-	1.52	174	8.3	6.9	0.9 - 2.0 - 4.2	23	21	21	18	-	-	
	400	491	.059	0.049	5 - 9 - 18	16	2.03	232	14.7	12.2	1.6 - 2.8 - 5.5	31	28	28	27	-	-	
	500	614	.092	0.077	8 - 12 - 20	22	2.54	290	23.0	19.1	2.3 - 3.5 - 6.2	37	34	33	33	20	-	
	600	736	.133	0.111	9 - 14 - 22	28	3.05	347	33.1	27.5	2.8 - 4.2 - 6.7	42	38	37	39	29	16	
	700	859	.181	0.151	11 - 16 - 24	33	3.56	405	45.1	37.5	3.3 - 4.9 - 7.3	47	42	41	43	37	22	
	800	982	.237	0.197	12 - 18 - 26	37	4.06	463	58.9	49.0	3.8 - 5.5 - 7.8	50	45	44	47	44	27	
	1000	1227	.370	0.307	15 - 20 - 29	44	5.08	579	92.0	76.5	4.7 - 6.2 - 8.7	57	51	49	53	55	36	
	1200	1473	.532	0.442	18 - 22 - 31	49	6.10	695	132.5	110.2	5.5 - 6.7 - 9.5	62	56	53	59	64	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.

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