

6500, 56500 (Supply) Performance Data: Horizontal Throw

IP/METRIC DATA: 6500, 56500, 24"x24" PANEL, 4-WAY (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	4-Way Throw		Neck Vel	Air Flow	Ps	Pt	4-Way Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
6"	300	59	0.011	0.017	2 - 4 - 9	-	1.52	28	2.7	4.1	0.6 - 1.3 - 2.6	21	21	17	-	-	-	
	400	78	0.020	0.030	3 - 6 - 10	-	2.03	37	4.9	7.4	1.0 - 1.9 - 3.0	24	26	23	-	-	-	
	500	98	0.031	0.046	5 - 8 - 11	-	2.54	46	7.6	11.5	1.6 - 2.4 - 3.4	27	30	28	16	-	-	
	600	118	0.044	0.067	6 - 9 - 12	15	3.05	56	11.0	16.6	1.9 - 2.6 - 3.7	30	33	32	22	-	-	
	700	137	0.060	0.091	7 - 9 - 13	19	3.56	65	15.0	22.6	2.2 - 2.8 - 4.0	32	36	35	27	13	-	
	800	157	0.078	0.118	8 - 10 - 14	22	4.06	74	19.5	29.5	2.5 - 3.0 - 4.3	34	38	38	31	18	-	
	900	176	0.099	0.150	9 - 11 - 15	25	4.57	83	24.7	37.3	2.6 - 3.2 - 4.5	35	40	41	35	23	12	
	1000	196	0.123	0.185	9 - 11 - 16	28	5.08	93	30.5	46.1	2.8 - 3.4 - 4.8	37	42	43	38	28	16	
	1100	216	0.148	0.224	10 - 12 - 17	30	5.59	102	36.9	55.7	2.9 - 3.6 - 5.0	38	44	45	41	32	20	
8"	300	105	0.011	0.017	2 - 6 - 12	-	1.52	49	2.7	4.1	0.7 - 1.7 - 3.5	25	24	21	-	-	-	
	400	140	0.020	0.030	4 - 8 - 13	-	2.03	66	4.9	7.4	1.3 - 2.5 - 4.0	28	29	27	15	-	-	
	500	175	0.031	0.046	7 - 10 - 15	15	2.54	82	7.6	11.5	2.1 - 3.2 - 4.5	31	33	32	22	-	-	
	600	209	0.044	0.067	8 - 12 - 16	19	3.05	99	11.0	16.6	2.5 - 3.5 - 5.0	34	36	36	27	13	-	
	700	244	0.060	0.091	10 - 12 - 18	23	3.56	115	15.0	22.6	3.0 - 3.8 - 5.4	36	38	39	32	20	-	
	800	279	0.078	0.118	11 - 13 - 19	27	4.06	132	19.5	29.5	3.3 - 4.0 - 5.7	38	41	42	36	25	15	
	900	314	0.099	0.150	12 - 14 - 20	30	4.57	148	24.7	37.3	3.5 - 4.3 - 6.1	39	43	45	40	30	19	
	1000	349	0.123	0.185	12 - 15 - 21	32	5.08	165	30.5	46.1	3.7 - 4.5 - 6.4	40	45	47	43	35	23	
1100	384	0.148	0.224	13 - 16 - 22	35	5.59	181	36.9	55.7	3.9 - 4.7 - 6.7	42	46	49	46	39	27		
10"	300	164	0.011	0.017	3 - 7 - 14	-	1.52	77	2.7	4.1	0.9 - 2.1 - 4.4	28	26	23	-	-	-	
	400	218	0.020	0.030	5 - 10 - 17	12	2.03	103	4.9	7.4	1.7 - 3.2 - 5.1	31	31	30	19	-	-	
	500	273	0.031	0.046	9 - 13 - 19	18	2.54	129	7.6	11.5	2.6 - 4.0 - 5.7	34	35	35	26	11	-	
	600	327	0.044	0.067	10 - 14 - 20	23	3.05	154	11.0	16.6	3.2 - 4.4 - 6.2	37	38	39	32	19	-	
	700	382	0.060	0.091	12 - 16 - 22	27	3.56	180	15.0	22.6	3.7 - 4.7 - 6.7	39	41	42	36	25	15	
	800	436	0.078	0.118	14 - 17 - 24	30	4.06	206	19.5	29.5	4.1 - 5.1 - 7.2	41	43	45	41	31	20	
	900	491	0.099	0.150	14 - 18 - 25	33	4.57	231	24.7	37.3	4.4 - 5.4 - 7.6	42	45	48	44	36	25	
	1000	545	0.123	0.185	15 - 19 - 26	36	5.08	257	30.5	46.1	4.6 - 5.7 - 8.0	43	47	50	47	40	29	
1100	600	0.148	0.224	16 - 20 - 28	38	5.59	283	36.9	55.7	4.8 - 5.9 - 8.4	45	48	52	50	44	33		
12"	300	235	0.011	0.017	4 - 8 - 17	-	1.52	111	2.7	4.1	1.1 - 2.5 - 5.3	30	27	26	14	-	-	
	400	314	0.020	0.030	7 - 12 - 20	15	2.03	148	4.9	7.4	2.0 - 3.8 - 6.1	34	32	32	23	-	-	
	500	392	0.031	0.046	10 - 16 - 22	21	2.54	185	7.6	11.5	3.1 - 4.7 - 6.8	37	36	37	30	15	-	
	600	471	0.044	0.067	12 - 17 - 24	26	3.05	222	11.0	16.6	3.8 - 5.3 - 7.4	39	40	41	35	23	14	
	700	549	0.060	0.091	15 - 19 - 26	30	3.56	259	15.0	22.6	4.4 - 5.7 - 8.0	41	42	44	40	30	20	
	800	628	0.078	0.118	16 - 20 - 28	33	4.06	296	19.5	29.5	5.0 - 6.1 - 8.6	43	45	47	44	35	25	
	900	706	0.099	0.150	17 - 21 - 30	36	4.57	333	24.7	37.3	5.3 - 6.4 - 9.1	45	47	50	48	40	30	
	1000	785	0.123	0.185	18 - 22 - 32	39	5.08	370	30.5	46.1	5.5 - 6.8 - 9.6	46	48	52	51	45	34	
1100	863	0.148	0.224	19 - 23 - 33	41	5.59	407	36.9	55.7	5.8 - 7.1 - 10.1	47	50	54	54	49	37		
14"	200	214	0.005	0.007	2 - 4 - 15	-	1.02	101	1.2	1.8	0.6 - 1.3 - 4.4	27	22	19	-	-	-	
	300	320	0.011	0.017	4 - 10 - 20	-	1.52	151	2.7	4.1	1.3 - 2.9 - 6.1	32	29	28	17	-	-	
	400	427	0.020	0.030	8 - 15 - 23	18	2.03	202	4.9	7.4	2.3 - 4.4 - 7.1	36	34	34	26	-	-	
	500	534	0.031	0.046	12 - 18 - 26	23	2.54	252	7.6	11.5	3.6 - 5.5 - 7.9	39	38	39	32	19	11	
	600	641	0.044	0.067	15 - 20 - 29	28	3.05	302	11.0	16.6	4.4 - 6.1 - 8.7	41	41	43	38	27	18	
	700	748	0.060	0.091	17 - 22 - 31	32	3.56	353	15.0	22.6	5.2 - 6.6 - 9.4	43	44	46	43	33	24	
	800	855	0.078	0.118	19 - 23 - 33	35	4.06	403	19.5	29.5	5.8 - 7.1 - 10.0	45	46	49	47	39	29	
	900	961	0.099	0.150	20 - 25 - 35	38	4.57	454	24.7	37.3	6.1 - 7.5 - 10.6	47	48	52	51	44	34	
1000	1068	0.123	0.185	21 - 26 - 37	41	5.08	504	30.5	46.1	6.5 - 7.9 - 11.2	48	50	54	54	48	38		
16"	200	279	0.005	0.007	2 - 5 - 17	-	1.02	132	1.2	1.8	0.7 - 1.5 - 5.1	28	23	21	-	-	-	
	300	419	0.011	0.017	5 - 11 - 23	12	1.52	198	2.7	4.1	1.5 - 3.4 - 7.0	34	30	29	19	-	-	
	400	558	0.020	0.030	9 - 17 - 27	20	2.03	263	4.9	7.4	2.6 - 5.1 - 8.1	38	35	36	28	13	-	
	500	698	0.031	0.046	14 - 21 - 30	25	2.54	329	7.6	11.5	4.1 - 6.3 - 9.0	41	39	41	35	22	14	
	600	837	0.044	0.067	17 - 23 - 33	30	3.05	395	11.0	16.6	5.1 - 7.0 - 9.9	43	42	45	41	30	21	
	700	977	0.060	0.091	19 - 25 - 35	34	3.56	461	15.0	22.6	5.9 - 7.6 - 10.7	45	45	48	45	37	27	
	800	1116	0.078	0.118	22 - 27 - 38	38	4.06	527	19.5	29.5	6.6 - 8.1 - 11.4	47	47	51	49	42	32	
	850	1186	0.089	0.134	22 - 27 - 39	39	4.32	560	22.1	33.3	6.8 - 8.3 - 11.8	48	48	52	51	45	35	
900	1256	0.099	0.150	23 - 28 - 40	41	4.57	593	24.7	37.3	7.0 - 8.6 - 12.1	48	49	54	53	47	37		

NOTE: See pages C1-36 for notes.

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PERFORATED FACE DIFFUSERS

6500 - 56500

6500, 56500 (Supply) Performance Data: Horizontal Throw
IP/METRIC DATA: 6500, 56500, 24"x24" PANEL, 1 - 3-WAY (NO DAMPER)

	IP Data					Metric Data				
	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw	Neck Vel	Air Flow	1-Way Throw	2-Way Throw	3-Way Throw
	FPM	CFM	ft	ft	ft	m/s	L/s	m	m	m
6"	300	59	3 - 5 - 11	2 - 5 - 10	2 - 4 - 8	1.52	28	0.8 - 1.6 - 3.2	0.7 - 1.5 - 3.0	0.5 - 1.2 - 2.6
	400	78	5 - 7 - 12	4 - 7 - 11	3 - 6 - 10	2.03	37	1.5 - 2.2 - 3.7	1.2 - 2.1 - 3.5	1.0 - 1.8 - 2.9
	500	98	6 - 9 - 14	6 - 9 - 13	5 - 7 - 11	2.54	46	1.8 - 2.7 - 4.1	1.8 - 2.6 - 3.9	1.5 - 2.2 - 3.3
	600	118	7 - 11 - 15	7 - 10 - 14	6 - 8 - 12	3.05	56	2.2 - 3.2 - 4.5	2.1 - 3.0 - 4.2	1.8 - 2.6 - 3.6
	700	137	8 - 11 - 16	8 - 11 - 15	7 - 9 - 13	3.56	65	2.6 - 3.5 - 4.9	2.5 - 3.2 - 4.6	2.1 - 2.8 - 3.9
	800	157	10 - 12 - 17	9 - 11 - 16	8 - 10 - 14	4.06	74	2.9 - 3.7 - 5.2	2.8 - 3.5 - 4.9	2.4 - 2.9 - 4.2
	900	176	11 - 13 - 18	10 - 12 - 17	8 - 10 - 15	4.57	83	3.2 - 3.9 - 5.5	3.0 - 3.7 - 5.2	2.6 - 3.1 - 4.4
	1000	196	11 - 14 - 19	10 - 13 - 18	9 - 11 - 15	5.08	93	3.4 - 4.1 - 5.8	3.2 - 3.9 - 5.5	2.7 - 3.3 - 4.7
	1100	216	12 - 14 - 20	11 - 13 - 19	9 - 11 - 16	5.59	102	3.5 - 4.3 - 6.1	3.3 - 4.0 - 5.7	2.8 - 3.5 - 4.9
8"	300	105	4 - 7 - 14	3 - 7 - 13	2 - 5 - 11	1.52	49	1.1 - 2.2 - 4.3	0.9 - 2.1 - 4.0	0.7 - 1.6 - 3.4
	400	140	6 - 10 - 16	5 - 9 - 15	4 - 8 - 13	2.03	66	1.9 - 2.9 - 4.9	1.6 - 2.8 - 4.6	1.3 - 2.4 - 3.9
	500	175	8 - 12 - 18	8 - 12 - 17	7 - 10 - 14	2.54	82	2.4 - 3.7 - 5.5	2.3 - 3.5 - 5.1	2.0 - 3.0 - 4.4
	600	209	10 - 14 - 20	9 - 13 - 19	8 - 11 - 16	3.05	99	2.9 - 4.3 - 6.0	2.8 - 4.0 - 5.6	2.4 - 3.4 - 4.8
	700	244	11 - 15 - 21	11 - 14 - 20	9 - 12 - 17	3.56	115	3.4 - 4.6 - 6.5	3.3 - 4.3 - 6.1	2.8 - 3.7 - 5.2
	800	279	13 - 16 - 23	12 - 15 - 21	10 - 13 - 18	4.06	132	3.9 - 4.9 - 7.0	3.7 - 4.6 - 6.5	3.2 - 3.9 - 5.6
	900	314	14 - 17 - 24	13 - 16 - 23	11 - 14 - 19	4.57	148	4.3 - 5.2 - 7.4	4.0 - 4.9 - 6.9	3.4 - 4.2 - 5.9
	1000	349	15 - 18 - 26	14 - 17 - 24	12 - 14 - 20	5.08	165	4.5 - 5.5 - 7.8	4.2 - 5.1 - 7.3	3.6 - 4.4 - 6.2
	1100	384	16 - 19 - 27	15 - 18 - 25	12 - 15 - 21	5.59	181	4.7 - 5.8 - 8.2	4.4 - 5.4 - 7.6	3.8 - 4.6 - 6.5
10"	300	164	4 - 9 - 18	4 - 8 - 16	3 - 7 - 14	1.52	77	1.4 - 2.8 - 5.3	1.1 - 2.6 - 5.0	0.9 - 2.0 - 4.3
	400	218	8 - 12 - 20	7 - 12 - 19	5 - 10 - 16	2.03	103	2.4 - 3.7 - 6.2	2.0 - 3.5 - 5.8	1.6 - 3.0 - 4.9
	500	273	10 - 15 - 23	10 - 14 - 21	8 - 12 - 18	2.54	129	3.1 - 4.6 - 6.9	2.9 - 4.4 - 6.4	2.5 - 3.7 - 5.5
	600	327	12 - 18 - 25	12 - 16 - 23	10 - 14 - 20	3.05	154	3.7 - 5.3 - 7.5	3.5 - 5.0 - 7.0	3.0 - 4.3 - 6.0
	700	382	14 - 19 - 27	13 - 18 - 25	11 - 15 - 21	3.56	180	4.3 - 5.8 - 8.1	4.1 - 5.4 - 7.6	3.5 - 4.6 - 6.5
	800	436	16 - 20 - 29	15 - 19 - 27	13 - 16 - 23	4.06	206	4.9 - 6.2 - 8.7	4.7 - 5.8 - 8.1	4.0 - 4.9 - 6.9
	900	491	18 - 21 - 30	16 - 20 - 28	14 - 17 - 24	4.57	231	5.3 - 6.5 - 9.2	5.0 - 6.1 - 8.6	4.3 - 5.2 - 7.4
	1000	545	18 - 23 - 32	17 - 21 - 30	15 - 18 - 26	5.08	257	5.6 - 6.9 - 9.7	5.3 - 6.4 - 9.1	4.5 - 5.5 - 7.8
	1100	600	19 - 24 - 34	18 - 22 - 31	15 - 19 - 27	5.59	283	5.9 - 7.2 - 10.2	5.5 - 6.7 - 9.5	4.7 - 5.8 - 8.1
12"	300	235	5 - 11 - 21	5 - 10 - 20	4 - 8 - 17	1.52	111	1.6 - 3.3 - 6.4	1.4 - 3.1 - 6.0	1.1 - 2.4 - 5.1
	400	314	10 - 14 - 24	8 - 14 - 23	6 - 12 - 19	2.03	148	2.9 - 4.4 - 7.4	2.4 - 4.2 - 6.9	1.9 - 3.6 - 5.9
	500	392	12 - 18 - 27	12 - 17 - 25	10 - 15 - 22	2.54	185	3.7 - 5.5 - 8.3	3.5 - 5.3 - 7.7	3.0 - 4.5 - 6.6
	600	471	14 - 21 - 30	14 - 20 - 28	12 - 17 - 24	3.05	222	4.4 - 6.4 - 9.0	4.2 - 6.0 - 8.5	3.6 - 5.1 - 7.2
	700	549	17 - 23 - 32	16 - 21 - 30	14 - 18 - 26	3.56	259	5.1 - 6.9 - 9.8	4.9 - 6.5 - 9.1	4.2 - 5.5 - 7.8
	800	628	19 - 24 - 34	18 - 23 - 32	16 - 19 - 27	4.06	296	5.9 - 7.4 - 10.4	5.6 - 6.9 - 9.8	4.8 - 5.9 - 8.3
	900	706	21 - 26 - 36	20 - 24 - 34	17 - 21 - 29	4.57	333	6.4 - 7.8 - 11.1	6.0 - 7.3 - 10.4	5.1 - 6.3 - 8.8
	1000	785	22 - 27 - 38	21 - 25 - 36	18 - 22 - 31	5.08	370	6.7 - 8.3 - 11.7	6.3 - 7.7 - 10.9	5.4 - 6.6 - 9.3
	1100	863	23 - 28 - 40	22 - 27 - 38	19 - 23 - 32	5.59	407	7.1 - 8.7 - 12.2	6.6 - 8.1 - 11.5	5.6 - 6.9 - 9.8
14"	200	214	3 - 6 - 17	2 - 5 - 16	2 - 4 - 14	1.02	101	0.8 - 1.9 - 5.1	0.7 - 1.6 - 4.9	0.6 - 1.3 - 4.2
	300	320	6 - 13 - 25	5 - 12 - 23	4 - 9 - 20	1.52	151	1.9 - 3.9 - 7.5	1.6 - 3.6 - 7.0	1.3 - 2.9 - 6.0
	400	427	11 - 17 - 28	9 - 16 - 27	7 - 14 - 23	2.03	202	3.4 - 5.1 - 8.6	2.9 - 4.9 - 8.1	2.3 - 4.2 - 6.9
	500	534	14 - 21 - 32	13 - 20 - 30	11 - 17 - 25	2.54	252	4.3 - 6.4 - 9.6	4.1 - 6.1 - 9.0	3.5 - 5.2 - 7.7
	600	641	17 - 25 - 35	16 - 23 - 32	14 - 20 - 28	3.05	302	5.1 - 7.5 - 10.6	4.9 - 7.0 - 9.9	4.2 - 6.0 - 8.4
	700	748	20 - 27 - 37	19 - 25 - 35	16 - 21 - 30	3.56	353	6.0 - 8.1 - 11.4	5.7 - 7.5 - 10.7	4.9 - 6.4 - 9.1
	800	855	23 - 28 - 40	22 - 27 - 37	18 - 23 - 32	4.06	403	6.8 - 8.6 - 12.2	6.6 - 8.1 - 11.4	5.6 - 6.9 - 9.7
	900	961	25 - 30 - 43	23 - 28 - 40	20 - 24 - 34	4.57	454	7.5 - 9.1 - 12.9	7.0 - 8.5 - 12.1	6.0 - 7.3 - 10.3
	1000	1068	26 - 32 - 45	24 - 30 - 42	21 - 25 - 36	5.08	504	7.9 - 9.6 - 13.6	7.4 - 9.0 - 12.7	6.3 - 7.7 - 10.9
16"	200	279	3 - 7 - 19	3 - 6 - 18	2 - 5 - 16	1.02	132	1.0 - 2.2 - 5.9	0.8 - 1.8 - 5.6	0.6 - 1.4 - 4.8
	300	419	7 - 14 - 28	6 - 14 - 26	5 - 11 - 22	1.52	198	2.2 - 4.4 - 8.5	1.8 - 4.1 - 8.0	1.4 - 3.3 - 6.8
	400	558	13 - 19 - 32	11 - 18 - 30	8 - 16 - 26	2.03	263	3.9 - 5.9 - 9.8	3.3 - 5.6 - 9.2	2.6 - 4.8 - 7.9
	500	698	16 - 24 - 36	15 - 23 - 34	13 - 20 - 29	2.54	329	4.9 - 7.3 - 11.0	4.7 - 7.0 - 10.3	4.0 - 6.0 - 8.8
	600	837	19 - 28 - 40	18 - 26 - 37	16 - 22 - 32	3.05	395	5.9 - 8.5 - 12.1	5.6 - 8.0 - 11.3	4.8 - 6.8 - 9.6
	700	977	23 - 30 - 43	22 - 28 - 40	18 - 24 - 34	3.56	461	6.8 - 9.2 - 13.0	6.6 - 8.6 - 12.2	5.6 - 7.4 - 10.4
	800	1116	26 - 32 - 46	25 - 30 - 43	21 - 26 - 37	4.06	527	7.8 - 9.8 - 13.9	7.5 - 9.2 - 13.0	6.4 - 7.9 - 11.1
	900	1256	28 - 34 - 49	26 - 32 - 45	22 - 27 - 39	4.57	593	8.5 - 10.4 - 14.8	8.0 - 9.8 - 13.8	6.8 - 8.3 - 11.8
	1000	1395	30 - 36 - 51	28 - 34 - 48	24 - 29 - 41	5.08	658	9.0 - 11.0 - 15.6	8.4 - 10.3 - 14.6	7.2 - 8.8 - 12.4

PERFORATED FACE DIFFUSERS

6500 - 56500

NOTE: See pages C1-37 for notes.