PERFORMANCE DATA | 12”x12” MODULE, NO DAMPER

NECK SIZE	IP DATA					NC	METRIC DATA				
	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
4" DIA.	400	35	.002	0.012	1 - 1 - 3	-	2.03	17	0.5	3.0	0.3 - 0.3 - 0.9
	500	44	.002	0.018	1 - 2 - 4	-	2.54	21	0.5	4.5	0.3 - 0.6 - 1.2
	600	52	.004	0.026	1 - 2 - 4	-	3.05	25	1.0	6.5	0.3 - 0.6 - 1.2
	700	61	.004	0.035	2 - 3 - 5	-	3.56	29	1.0	8.7	0.6 - 0.9 - 1.5
	800	70	.006	0.046	2 - 3 - 6	12	4.06	33	1.5	11.5	0.6 - 0.9 - 1.8
	1000	87	.010	0.072	2 - 4 - 7	20	5.08	41	2.5	17.9	0.6 - 1.2 - 2.1
	1200	105	.014	0.104	3 - 4 - 7	26	6.10	50	3.5	25.9	0.9 - 1.2 - 2.1
	1400	122	.019	0.141	3 - 5 - 8	31	7.11	58	4.7	35.1	0.9 - 1.5 - 2.4
	1600	140	.024	0.184	4 - 6 - 8	36	8.13	66	6.0	45.8	1.2 - 1.8 - 2.4
5" DIA.	400	55	.005	0.015	1 - 2 - 4	-	2.03	26	1.2	3.7	0.3 - 0.6 - 1.2
	500	68	.007	0.023	2 - 2 - 5	-	2.54	32	1.7	5.7	0.6 - 0.6 - 1.5
	600	82	.011	0.033	2 - 3 - 6	-	3.05	39	2.7	8.2	0.6 - 0.9 - 1.8
	700	95	.013	0.044	2 - 3 - 7	-	3.56	45	3.2	11.0	0.6 - 0.9 - 2.1
	800	109	.018	0.058	2 - 4 - 7	15	4.06	51	4.5	14.4	0.6 - 1.2 - 2.1
	1000	136	.029	0.091	3 - 5 - 8	23	5.08	64	7.2	22.7	0.9 - 1.5 - 2.4
	1200	164	.041	0.131	4 - 6 - 9	29	6.10	77	10.2	32.6	1.2 - 1.8 - 2.7
	1400	191	.056	0.178	4 - 7 - 10	34	7.11	90	13.9	44.3	1.2 - 2.1 - 3.0
	1600	218	.072	0.232	5 - 7 - 10	39	8.13	103	17.9	57.8	1.5 - 2.1 - 3.0
6" DIA.	400	79	.008	0.018	2 - 2 - 5	-	2.03	37	2.0	4.5	0.6 - 0.6 - 1.5
	500	98	.012	0.028	2 - 3 - 6	-	2.54	46	3.0	7.0	0.6 - 0.9 - 1.8
	600	118	.019	0.041	2 - 3 - 7	-	3.05	56	4.7	10.2	0.6 - 0.9 - 2.1
	700	137	.025	0.056	3 - 4 - 8	13	3.56	65	6.2	13.9	0.9 - 1.2 - 2.4
	800	157	.033	0.073	3 - 5 - 9	18	4.06	74	8.2	18.2	0.9 - 1.5 - 2.7
	1000	196	.052	0.114	4 - 6 - 10	25	5.08	93	12.9	28.4	1.2 - 1.8 - 3.0
	1200	236	.074	0.164	5 - 7 - 11	32	6.10	111	18.4	40.8	1.5 - 2.1 - 3.4
	1400	275	.101	0.223	5 - 8 - 12	37	7.11	130	25.1	55.5	1.5 - 2.4 - 3.7
	1600	314	.131	0.291	6 - 9 - 13	42	8.13	148	32.6	72.5	1.8 - 2.7 - 4.0
7" DIA.	400	107	.010	0.020	2 - 3 - 5	-	2.03	50	2.5	5.0	0.6 - 0.9 - 1.5
	500	134	.015	0.031	2 - 3 - 7	-	2.54	63	3.7	7.7	0.6 - 0.9 - 2.1
	600	160	.023	0.045	3 - 4 - 8	-	3.05	76	5.7	11.2	0.9 - 1.2 - 2.4
	700	187	.031	0.062	3 - 5 - 9	15	3.56	88	7.7	15.4	0.9 - 1.5 - 2.7
	800	214	.041	0.081	4 - 5 - 10	20	4.06	101	10.2	20.2	1.2 - 1.5 - 3.0
	1000	267	.064	0.126	4 - 7 - 12	28	5.08	126	15.9	31.4	1.2 - 2.1 - 3.7
	1200	321	.091	0.181	5 - 8 - 13	34	6.10	151	22.7	45.1	1.5 - 2.4 - 4.0
	1400	374	.125	0.247	6 - 9 - 14	39	7.11	177	31.1	61.5	1.8 - 2.7 - 4.3
	1600	428	.162	0.322	7 - 10 - 15	44	8.13	202	40.3	80.2	2.1 - 3.0 - 4.6
8" DIA.	400	140	.012	0.022	2 - 3 - 6	-	2.03	66	3.0	5.5	0.6 - 0.9 - 1.8
	500	175	.019	0.035	3 - 4 - 8	-	2.54	82	4.7	8.7	0.9 - 1.2 - 2.4
	600	209	.028	0.050	3 - 5 - 9	12	3.05	99	7.0	12.5	0.9 - 1.5 - 2.7
	700	244	.038	0.069	4 - 5 - 11	17	3.56	115	9.5	17.2	1.2 - 1.5 - 3.4
	800	279	.050	0.090	4 - 6 - 12	22	4.06	132	12.5	22.4	1.2 - 1.8 - 3.7
	1000	349	.078	0.140	5 - 8 - 13	29	5.08	165	19.4	34.9	1.5 - 2.4 - 4.0
	1200	419	.112	0.202	6 - 9 - 14	36	6.10	198	27.9	50.3	1.8 - 2.7 - 4.3
	1400	489	.153	0.275	7 - 11 - 16	41	7.11	231	38.1	68.5	2.1 - 3.4 - 4.9
	1600	559	.199	0.359	8 - 12 - 17	46	8.13	264	49.6	89.4	2.4 - 3.7 - 5.2

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.

PERFORMANCE DATA | 20”x20” MODULE, NO DAMPER

NECK SIZE	IP DATA					NC	METRIC DATA				
	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
6” DIA.	400	79	.006	0.016	1 - 1 - 4	-	2.03	37	1.5	4.0	0.3 - 0.3 - 1.2
	500	98	.009	0.025	1 - 2 - 4	-	2.54	46	2.2	6.2	0.3 - 0.6 - 1.2
	600	118	.013	0.035	2 - 3 - 5	-	3.05	56	3.2	8.7	0.6 - 0.9 - 1.5
	700	137	.017	0.048	2 - 3 - 6	14	3.56	65	4.2	12.0	0.6 - 0.9 - 1.8
	800	157	.023	0.063	2 - 4 - 7	18	4.06	74	5.7	15.7	0.6 - 1.2 - 2.1
	1000	196	.037	0.099	3 - 4 - 9	24	5.08	93	9.2	24.7	0.9 - 1.2 - 2.7
	1200	236	.052	0.142	4 - 5 - 10	30	6.10	111	12.9	35.4	1.2 - 1.5 - 3.0
	1400	275	.071	0.193	4 - 6 - 12	34	7.11	130	17.7	48.1	1.2 - 1.8 - 3.7
8” DIA.	400	140	.007	0.017	1 - 1 - 4	-	2.03	66	1.7	4.2	0.3 - 0.3 - 1.2
	500	175	.011	0.027	1 - 2 - 4	-	2.54	82	2.7	6.7	0.3 - 0.6 - 1.2
	600	209	.016	0.038	2 - 3 - 5	-	3.05	99	4.0	9.5	0.6 - 0.9 - 1.5
	700	244	.026	0.057	2 - 3 - 6	13	3.56	115	6.5	14.2	0.6 - 0.9 - 1.8
	800	279	.027	0.067	2 - 4 - 7	19	4.06	132	6.7	16.7	0.6 - 1.2 - 2.1
	1000	349	.043	0.105	3 - 4 - 9	23	5.08	165	10.7	26.1	0.9 - 1.2 - 2.7
	1200	419	.062	0.152	4 - 5 - 10	29	6.10	198	15.4	37.8	1.2 - 1.5 - 3.0
	1400	489	.085	0.207	4 - 6 - 12	34	7.11	231	21.2	51.5	1.2 - 1.8 - 3.7
10” DIA.	400	218	.010	0.020	1 - 1 - 4	-	2.03	103	2.5	5.0	0.3 - 0.3 - 1.2
	500	273	.016	0.032	1 - 2 - 4	-	2.54	129	4.0	8.0	0.3 - 0.6 - 1.2
	600	327	.023	0.045	2 - 3 - 5	17	3.05	154	5.7	11.2	0.6 - 0.9 - 1.5
	700	382	.031	0.062	2 - 3 - 6	20	3.56	180	7.7	15.4	0.6 - 0.9 - 1.8
	800	436	.041	0.081	2 - 4 - 7	24	4.06	206	10.2	20.2	0.6 - 1.2 - 2.1
	1000	545	.064	0.126	3 - 4 - 9	31	5.08	257	15.9	31.4	0.9 - 1.2 - 2.7
	1200	654	.090	0.180	4 - 5 - 10	36	6.10	309	22.4	44.8	1.2 - 1.5 - 3.0
	1400	764	.118	0.240	4 - 6 - 12	41	7.11	361	29.4	59.8	1.2 - 1.8 - 3.7

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.

PERFORMANCE DATA | 24"x24" MODULE, NO DAMPER

NECK SIZE	IP DATA					NC	METRIC DATA				
	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
6" DIA.	400	79	.006	0.016	1 - 2 - 4	-	2.03	37	1.5	4.0	0.3 - 0.6 - 1.2
	500	98	.009	0.025	1 - 2 - 4	-	2.54	46	2.2	6.2	0.3 - 0.6 - 1.2
	600	118	.013	0.035	2 - 3 - 5	-	3.05	56	3.2	8.7	0.6 - 0.9 - 1.5
	700	137	.017	0.048	2 - 3 - 6	12	3.56	65	4.2	12.0	0.6 - 0.9 - 1.8
	800	157	.023	0.063	2 - 4 - 7	16	4.06	74	5.7	15.7	0.6 - 1.2 - 2.1
	1000	196	.037	0.099	3 - 4 - 9	22	5.08	93	9.2	24.7	0.9 - 1.2 - 2.7
	1200	236	.052	0.142	4 - 5 - 11	28	6.10	111	12.9	35.4	1.2 - 1.5 - 3.4
	1400	275	.071	0.193	4 - 6 - 12	32	7.11	130	17.7	48.1	1.2 - 1.8 - 3.7
	1600	314	.092	0.252	5 - 7 - 13	36	8.13	148	22.9	62.7	1.5 - 2.1 - 4.0
8" DIA.	400	140	.006	0.016	2 - 3 - 5	-	2.03	66	1.5	4.0	0.6 - 0.9 - 1.5
	500	175	.009	0.025	2 - 3 - 7	-	2.54	82	2.2	6.2	0.6 - 0.9 - 2.1
	600	209	.014	0.036	3 - 4 - 8	11	3.05	99	3.5	9.0	0.9 - 1.2 - 2.4
	700	244	.018	0.049	3 - 5 - 9	15	3.56	115	4.5	12.2	0.9 - 1.5 - 2.7
	800	279	.024	0.064	4 - 5 - 11	19	4.06	132	6.0	15.9	1.2 - 1.5 - 3.4
	1000	349	.039	0.101	4 - 7 - 13	26	5.08	165	9.7	25.1	1.2 - 2.1 - 4.0
	1200	419	.055	0.145	5 - 8 - 14	31	6.10	198	13.7	36.1	1.5 - 2.4 - 4.3
	1400	489	.075	0.197	6 - 9 - 16	36	7.11	231	18.7	49.1	1.8 - 2.7 - 4.9
	1600	559	.097	0.257	7 - 11 - 17	40	8.13	264	24.2	64.0	2.1 - 3.4 - 5.2
10" DIA.	400	218	.007	0.017	2 - 4 - 7	-	2.03	103	1.7	4.2	0.6 - 1.2 - 2.1
	500	273	.010	0.026	3 - 5 - 9	-	2.54	129	2.5	6.5	0.9 - 1.5 - 2.7
	600	327	.015	0.037	4 - 5 - 11	14	3.05	154	3.7	9.2	1.2 - 1.5 - 3.4
	700	382	.020	0.051	4 - 6 - 13	18	3.56	180	5.0	12.7	1.2 - 1.8 - 4.0
	800	436	.026	0.066	5 - 7 - 14	22	4.06	206	6.5	16.4	1.5 - 2.1 - 4.3
	1000	545	.041	0.103	6 - 9 - 17	29	5.08	257	10.2	25.6	1.8 - 2.7 - 5.2
	1200	654	.059	0.149	7 - 11 - 18	34	6.10	309	14.7	37.1	2.1 - 3.4 - 5.5
	1400	764	.080	0.202	8 - 13 - 20	39	7.11	361	19.9	50.3	2.4 - 4.0 - 6.1
	1600	873	.104	0.264	10 - 14 - 21	43	8.13	412	25.9	65.7	3.0 - 4.3 - 6.4
12" DIA.	400	314	.007	0.017	3 - 5 - 9	-	2.03	148	1.7	4.2	0.9 - 1.5 - 2.7
	500	393	.011	0.027	4 - 6 - 11	11	2.54	185	2.7	6.7	1.2 - 1.8 - 3.4
	600	471	.016	0.038	5 - 7 - 14	16	3.05	222	4.0	9.5	1.5 - 2.1 - 4.3
	700	550	.021	0.052	5 - 8 - 16	21	3.56	260	5.2	12.9	1.5 - 2.4 - 4.9
	800	628	.028	0.068	6 - 9 - 18	24	4.06	296	7.0	16.9	1.8 - 2.7 - 5.5
	1000	785	.044	0.106	8 - 11 - 20	31	5.08	370	11.0	26.4	2.4 - 3.4 - 6.1
	1200	942	.063	0.153	9 - 14 - 22	36	6.10	445	15.7	38.1	2.7 - 4.3 - 6.7
	1400	1100	.086	0.208	11 - 16 - 23	41	7.11	519	21.4	51.8	3.4 - 4.9 - 7.0
	1600	1257	.112	0.272	12 - 18 - 25	45	8.13	593	27.9	67.7	3.7 - 5.5 - 7.6
14" DIA.	400	428	.008	0.018	4 - 5 - 11	-	2.03	202	2.0	4.5	1.2 - 1.5 - 3.4
	500	535	.012	0.028	5 - 7 - 14	13	2.54	252	3.0	7.0	1.5 - 2.1 - 4.3
	600	641	.018	0.040	5 - 8 - 16	18	3.05	303	4.5	10.0	1.5 - 2.4 - 4.9
	700	748	.023	0.054	6 - 10 - 19	22	3.56	353	5.7	13.4	1.8 - 3.0 - 5.8
	800	855	.047	0.087	7 - 11 - 21	26	4.06	404	11.7	21.7	2.1 - 3.4 - 6.4
	1000	1069	.048	0.110	9 - 14 - 23	33	5.08	505	12.0	27.4	2.7 - 4.3 - 7.0
	1200	1283	.069	0.159	11 - 16 - 25	38	6.10	606	17.2	39.6	3.4 - 4.9 - 7.6
	1400	1497	.094	0.216	13 - 19 - 27	43	7.11	707	23.4	53.8	4.0 - 5.8 - 8.2
	1600	1710	.122	0.282	14 - 21 - 29	47	8.13	807	30.4	70.2	4.3 - 6.4 - 8.8
15" DIA.	400	491	.008	0.018	4 - 6 - 12	-	2.03	232	2.0	4.5	1.2 - 1.8 - 3.7
	500	614	.012	0.028	5 - 7 - 15	13	2.54	290	3.0	7.0	1.5 - 2.1 - 4.6
	600	736	.018	0.040	6 - 9 - 18	19	3.05	347	4.5	10.0	1.8 - 2.7 - 5.5
	700	859	.024	0.055	7 - 10 - 21	23	3.56	405	6.0	13.7	2.1 - 3.0 - 6.4
	800	982	.032	0.072	8 - 12 - 22	27	4.06	463	8.0	17.9	2.4 - 3.7 - 6.7
	1000	1227	.050	0.112	10 - 15 - 25	34	5.08	579	12.5	27.9	3.0 - 4.6 - 7.6
	1200	1473	.072	0.162	12 - 18 - 27	39	6.10	695	17.9	40.3	3.7 - 5.5 - 8.2
	1400	1718	.098	0.220	14 - 21 - 29	44	7.11	811	24.4	54.8	4.3 - 6.4 - 8.8
	1600	1963	.127	0.287	16 - 22 - 31	48	8.13	926	31.6	71.5	4.9 - 6.7 - 9.4

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.