



ASDT/5ASDT PERFORMANCE DATA: HORIZONTAL THROW

▼ IP/METRIC DATA: ASDT & 5ASDT, 24"x24" PANEL (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Ps	Pt	Throw		Neck Vel	Air Flow	Ps	Pt	Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
8" Dia.	200	70	0.012	.014	0 - 1 - 3	-	1.02	33	3.0	3.6	0.1 - 0.2 - 0.9	15	-	-	-	-	-	
	300	105	0.027	.032	1 - 2 - 4	-	1.52	49	6.7	8.1	0.2 - 0.5 - 1.3	26	16	-	-	-	-	
	500	175	0.074	.090	2 - 4 - 7	-	2.54	82	18.5	22.4	0.7 - 1.1 - 2.2	40	32	27	16	-	-	
	600	209	0.107	.129	3 - 4 - 9	16	3.05	99	26.6	32.2	0.9 - 1.3 - 2.6	45	37	33	22	11	-	
	700	244	0.145	.176	3 - 5 - 10	22	3.56	115	36.2	43.8	1.0 - 1.5 - 3.1	49	42	38	28	18	-	
	800	279	0.190	.230	4 - 6 - 12	27	4.06	132	47.3	57.2	1.2 - 1.8 - 3.5	53	46	43	33	23	-	
	900	314	0.240	.291	4 - 6 - 13	31	4.57	148	59.9	72.4	1.3 - 2.0 - 3.9	56	50	46	37	28	14	
	1000	349	0.297	.359	5 - 7 - 14	35	5.08	165	73.9	89.4	1.5 - 2.2 - 4.1	59	53	50	41	33	18	
1100	384	0.359	.435	5 - 8 - 14	39	5.59	181	89.4	108.2	1.6 - 2.4 - 4.3	61	56	53	45	37	23		
10" Dia.	200	109	0.014	.017	1 - 1 - 4	-	1.02	51	3.5	4.1	0.2 - 0.4 - 1.2	19	-	-	-	-	-	
	300	164	0.032	.037	1 - 3 - 6	-	1.52	77	7.9	9.3	0.4 - 0.8 - 1.8	30	19	13	-	-	-	
	500	273	0.088	.104	3 - 5 - 10	13	2.54	129	21.9	25.8	1.0 - 1.5 - 2.9	44	35	30	19	-	-	
	600	327	0.127	.149	4 - 6 - 12	19	3.05	154	31.6	37.2	1.2 - 1.8 - 3.5	49	40	36	26	15	-	
	700	382	0.173	.203	4 - 7 - 13	25	3.56	180	43.0	50.6	1.4 - 2.0 - 4.1	53	45	41	31	22	-	
	800	436	0.225	.265	5 - 8 - 15	30	4.06	206	56.1	66.1	1.6 - 2.3 - 4.6	56	49	45	36	27	14	
	900	491	0.285	.336	6 - 9 - 16	34	4.57	232	71.1	83.6	1.8 - 2.6 - 4.9	60	53	49	41	32	19	
	1000	545	0.352	.415	6 - 10 - 17	38	5.08	257	87.7	103.2	1.9 - 2.9 - 5.2	62	56	52	44	37	24	
1100	600	0.426	.502	7 - 11 - 18	42	5.59	283	106.1	124.9	2.1 - 3.2 - 5.4	65	59	56	48	41	29		
12" Dia.	100	79	0.004	.005	0 - 0 - 2	-	0.51	37	1.0	1.2	0.1 - 0.1 - 0.5	-	-	-	-	-	-	
	200	157	0.017	.019	1 - 2 - 5	-	1.02	74	4.2	4.8	0.2 - 0.5 - 1.5	22	-	-	-	-	-	
	300	236	0.038	.043	2 - 4 - 7	-	1.52	111	9.4	10.8	0.5 - 1.1 - 2.2	33	21	15	-	-	-	
	500	393	0.105	.121	4 - 6 - 12	15	2.54	185	26.2	30.0	1.2 - 1.8 - 3.6	47	37	32	22	11	-	
	600	471	0.151	.174	5 - 7 - 14	22	3.05	222	37.7	43.2	1.5 - 2.2 - 4.4	52	43	38	28	18	-	
	700	550	0.206	.236	6 - 8 - 17	28	3.56	259	51.3	58.9	1.7 - 2.6 - 5.1	56	47	43	34	25	12	
	800	628	0.269	.309	6 - 10 - 18	33	4.06	297	66.9	76.9	1.9 - 2.9 - 5.5	60	51	47	39	30	19	
	900	707	0.340	.391	7 - 11 - 19	37	4.57	334	84.7	97.3	2.2 - 3.3 - 5.9	63	55	51	43	35	24	
1000	785	0.420	.482	8 - 12 - 20	41	5.08	371	104.6	120.1	2.4 - 3.6 - 6.2	66	58	54	47	40	29		
14" Dia.	100	107	0.005	.006	0 - 1 - 2	-	0.51	50	1.2	1.4	0.1 - 0.2 - 0.6	-	-	-	-	-	-	
	200	214	0.020	.023	1 - 2 - 6	-	1.02	101	5.0	5.6	0.3 - 0.6 - 1.7	25	11	-	-	-	-	
	300	321	0.045	.051	2 - 4 - 9	-	1.52	151	11.2	12.6	0.6 - 1.3 - 2.6	36	23	17	-	-	-	
	500	535	0.125	.141	5 - 7 - 14	17	2.54	252	31.1	35.0	1.5 - 2.2 - 4.4	49	39	33	24	13	-	
	600	641	0.180	.203	6 - 9 - 17	24	3.05	303	44.8	50.4	1.7 - 2.6 - 5.2	54	45	39	31	21	-	
	700	748	0.245	.276	7 - 10 - 20	30	3.56	353	61.0	68.6	2.0 - 3.1 - 6.1	59	49	44	36	27	16	
	800	855	0.320	.360	8 - 11 - 21	35	4.06	404	79.7	89.6	2.3 - 3.5 - 6.5	62	53	49	41	33	23	
	900	962	0.405	.456	9 - 13 - 23	39	4.57	454	100.9	113.5	2.6 - 3.9 - 6.9	65	57	53	46	38	28	
1000	1069	0.500	.563	10 - 14 - 24	43	5.08	505	124.5	140.1	2.9 - 4.4 - 7.2	68	60	56	50	42	33		

► 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. Nominal duct is duct width. 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.