PERFORMANCE DATA | A110D | 30° DEFLECTION (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps						
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa	2	3	4	5	6	7
6" x 6"	0.25	560	70	-.069	11	152 x 152	0.02	2.84	33	-17.2	28	25	26	20	14	-
		695	87	-.106	18			3.53	41	-26.5	34	31	31	28	24	19
		830	104	-.152	24			4.22	49	-37.7	39	35	36	34	32	27
		965	121	-.205	28			4.90	57	-51.0	44	39	39	39	38	34
		1100	138	-.266	32			5.59	65	-66.3	47	42	42	43	44	40
10" x 6"	0.42	500	122	-.055	11	254 x 152	0.04	2.54	57	-13.7	28	26	26	20	12	-
		650	158	-.093	19			3.30	75	-23.1	35	32	33	29	24	19
		800	195	-.141	26			4.06	92	-35.1	41	37	38	36	33	29
		950	231	-.199	31			4.83	109	-49.4	46	42	42	42	41	37
		1100	268	-.266	36			5.59	126	-66.3	51	45	46	47	48	44
12" x 6"	0.50	500	151	-.055	12	305 x 152	0.05	2.54	71	-13.7	29	27	28	21	13	-
		650	197	-.093	20			3.30	93	-23.1	36	33	34	30	25	20
		800	242	-.141	27			4.06	114	-35.1	42	38	39	37	34	30
		950	287	-.199	32			4.83	136	-49.4	47	43	43	43	42	38
		1100	333	-.266	37			5.59	157	-66.3	52	46	47	48	49	45
12" x 8"	0.67	500	222	-.055	14	305 x 203	0.06	2.54	105	-13.7	31	29	29	22	15	-
		650	289	-.093	22			3.30	136	-23.1	38	35	36	31	27	22
		800	356	-.141	29			4.06	168	-35.1	44	40	41	39	36	32
		950	423	-.199	34			4.83	199	-49.4	49	44	45	44	44	40
		1100	489	-.266	39			5.59	231	-66.3	54	48	49	50	51	47
18" x 6"	0.75	450	216	-.045	11	457 x 152	0.07	2.29	102	-11.1	28	26	27	19	11	-
		613	294	-.083	21			3.11	139	-20.6	37	34	35	30	25	19
		775	372	-.132	28			3.94	175	-32.9	44	40	40	38	35	31
		938	450	-.193	34			4.76	212	-48.1	49	44	45	44	44	40
		1100	528	-.266	39			5.59	249	-66.3	54	48	49	50	51	47
22" x 6"	0.92	450	269	-.045	12	559 x 152	0.09	2.29	127	-11.1	29	27	28	20	12	-
		613	366	-.083	22			3.11	173	-20.6	38	35	36	31	26	20
		775	463	-.132	29			3.94	219	-32.9	45	41	41	39	36	32
		938	560	-.193	35			4.76	264	-48.1	50	46	46	45	45	41
		1100	657	-.266	41			5.59	310	-66.3	55	50	50	51	52	48
18" x 10"	1.25	400	372	-.035	11	457 x 254	0.12	2.03	176	-8.8	28	27	28	18	-	-
		563	524	-.070	22			2.86	247	-17.3	38	35	36	30	24	19
		725	675	-.116	30			3.68	319	-28.8	45	41	42	39	36	31
		888	826	-.173	36			4.51	390	-43.1	51	46	47	46	45	40
		1050	978	-.243	41			5.33	461	-60.4	56	50	51	52	52	48
27" x 8"	1.50	400	438	-.035	11	686 x 203	0.14	2.03	207	-8.8	29	27	28	19	-	-
		550	603	-.067	22			2.79	284	-16.6	38	35	36	30	24	18
		700	767	-.108	29			3.56	362	-26.8	45	41	42	38	35	30
		850	932	-.159	36			4.32	440	-39.6	50	46	47	45	44	39
		1000	1096	-.220	41			5.08	517	-54.8	55	50	51	51	51	47
24" x 10"	1.67	400	510	-.035	12	610 x 254	0.15	2.03	241	-8.8	29	28	29	20	-	-
		550	701	-.067	22			2.79	331	-16.6	39	36	37	31	25	19
		700	892	-.108	30			3.56	421	-26.8	46	42	43	39	36	31
		850	1084	-.159	36			4.32	511	-39.6	51	47	47	46	44	40
		1000	1275	-.220	41			5.08	602	-54.8	56	51	51	51	52	48
16" x 16"	1.78	380	536	-.032	11	406 x 406	0.17	1.93	253	-7.9	28	27	28	19	-	-
		535	754	-.063	22			2.72	356	-15.7	38	36	37	30	24	18
		690	973	-.105	30			3.51	459	-26.1	46	42	43	39	35	30
		845	1192	-.157	37			4.29	562	-39.1	51	47	48	46	45	40
		1000	1410	-.220	42			5.08	666	-54.8	56	51	52	52	52	48
18" x 18"	2.25	370	678	-.030	12	457 x 457	0.21	1.88	320	-7.5	29	28	29	19	-	-
		528	967	-.061	23			2.68	457	-15.2	39	37	38	31	25	19
		685	1256	-.103	31			3.48	593	-25.7	47	43	44	40	36	31
		843	1545	-.156	38			4.28	729	-38.9	53	48	49	47	46	41
		1000	1834	-.220	43			5.08	865	-54.8	58	53	53	53	53	49

A110D

Return Grille | Heavy Duty

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PERFORMANCE DATA | A110D | 30° DEFLECTION (NO DAMPER)

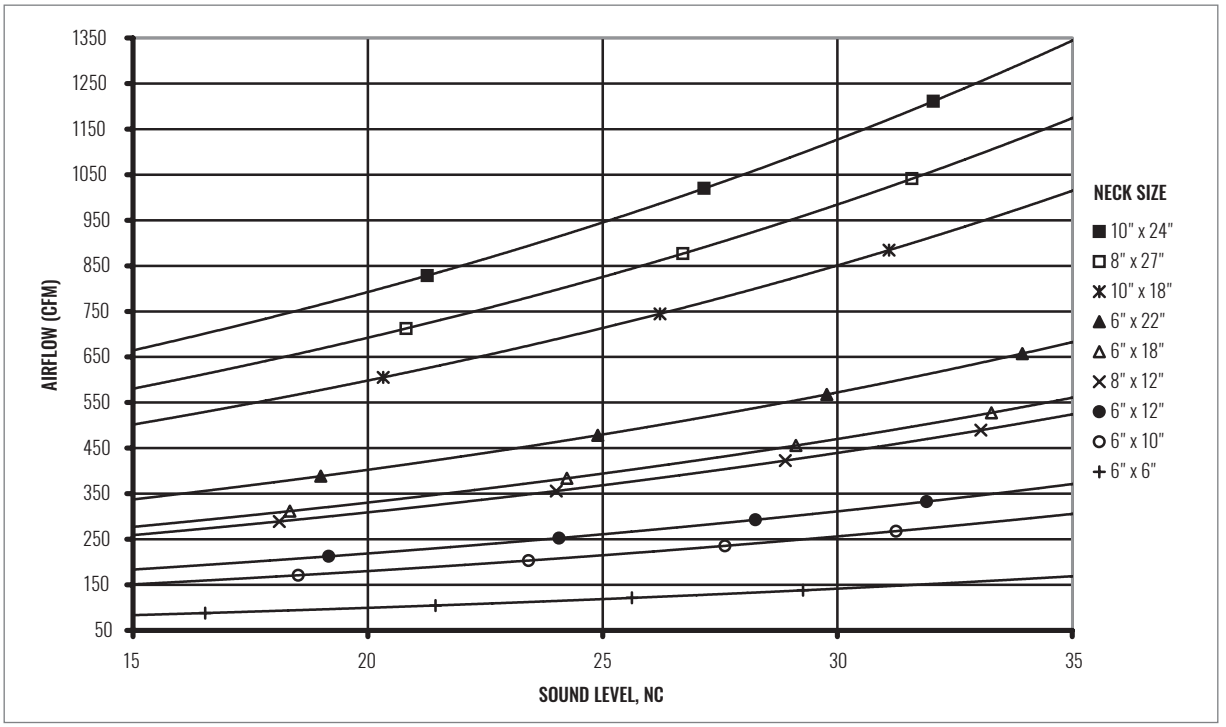
IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps						
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa	2	3	4	5	6	7
30" x 12"	2.50	360	724	-.029	11	762 x 305	0.23	1.83	342	-7.1	28	28	29	19	-	-
		508	1021	-.057	22			2.58	482	-14.1	38	36	37	30	23	18
		655	1317	-.094	30			3.33	622	-23.5	46	43	43	39	35	30
		803	1614	-.142	37			4.08	762	-35.3	52	48	48	46	44	39
		950	1910	-.199	42			4.83	902	-49.4	57	52	52	52	52	47
20" x 20"	2.78	350	810	-.027	11	508 x 508	0.26	1.78	382	-6.7	28	28	29	18	-	-
		488	1128	-.052	22			2.48	532	-13.0	38	36	37	30	22	17
		625	1446	-.086	30			3.18	682	-21.4	45	42	43	38	33	28
		763	1764	-.128	36			3.87	832	-31.8	51	47	48	45	42	38
		900	2082	-.178	41			4.57	982	-44.4	56	51	52	51	50	46
30" x 16"	3.33	350	978	-.027	12	762 x 406	0.31	1.78	462	-6.7	26	25	26	16	-	-
		488	1363	-.052	23			2.48	643	-13.0	35	33	34	27	20	14
		625	1747	-.086	31			3.18	825	-21.4	43	40	40	36	31	26
		763	2132	-.128	37			3.87	1006	-31.8	48	44	45	43	40	35
		900	2516	-.178	42			4.57	1187	-44.4	53	49	49	48	47	43
36" x 14"	3.50	340	991	-.025	11	914 x 356	0.33	1.73	468	-6.3	29	28	29	19	-	-
		468	1362	-.048	22			2.38	643	-12.0	38	36	37	29	21	16
		595	1734	-.078	29			3.02	818	-19.4	45	42	43	38	32	27
		723	2105	-.115	35			3.67	993	-28.6	50	47	47	44	41	36
		850	2477	-.159	41			4.32	1169	-39.6	55	51	51	50	48	44
30" x 18"	3.75	340	1084	-.025	12	762 x 457	0.35	1.73	512	-6.3	29	28	30	19	-	-
		468	1490	-.048	22			2.38	703	-12.0	38	36	37	30	22	16
		595	1897	-.078	30			3.02	895	-19.4	45	42	43	38	33	28
		723	2303	-.115	36			3.67	1087	-28.6	51	47	48	45	42	37
		850	2710	-.159	41			4.32	1279	-39.6	56	51	52	50	49	44
36" x 18"	4.50	340	1314	-.025	13	914 x 457	0.42	1.73	620	-6.3	30	29	30	20	-	-
		460	1778	-.047	22			2.34	839	-11.6	39	37	38	30	22	16
		580	2242	-.074	30			2.95	1058	-18.4	45	43	43	38	33	27
		700	2706	-.108	36			3.56	1277	-26.8	51	47	48	45	41	36
		820	3169	-.148	41			4.17	1496	-36.8	56	51	52	50	48	44
42" x 18"	5.25	340	1544	-.025	14	1067 x 457	0.49	1.73	729	-6.3	25	24	25	14	-	-
		455	2067	-.046	23			2.31	975	-11.3	33	31	32	24	16	-
		570	2589	-.071	30			2.90	1222	-17.8	40	37	38	32	26	21
		685	3111	-.103	36			3.48	1468	-25.7	45	41	42	38	35	30
		800	3634	-.141	41			4.06	1715	-35.1	49	45	46	44	42	37
30" x 28"	5.83	320	1648	-.023	12	762 x 711	0.54	1.63	778	-5.6	30	29	30	19	-	-
		440	2266	-.043	23			2.24	1069	-10.6	39	37	38	30	22	16
		560	2884	-.069	30			2.84	1361	-17.2	46	43	44	38	32	27
		680	3502	-.102	36			3.45	1653	-25.3	51	48	49	45	41	36
		800	4120	-.141	42			4.06	1944	-35.1	56	52	53	51	49	44
30" x 30"	6.25	300	1663	-.020	11	762 x 762	0.58	1.52	785	-4.9	28	28	29	17	-	-
		425	2355	-.040	22			2.16	1112	-9.9	38	37	38	29	20	14
		550	3048	-.067	30			2.79	1439	-16.6	46	43	44	38	32	27
		675	3741	-.100	37			3.43	1766	-25.0	52	48	49	45	41	36
		800	4434	-.141	42			4.06	2092	-35.1	57	52	53	51	49	44
46" x 22"	7.03	300	1867	-.020	11	1168 x 559	0.65	1.52	881	-4.9	29	29	30	18	-	-
		413	2567	-.037	21			2.10	1211	-9.3	38	37	37	29	20	14
		525	3267	-.061	29			2.67	1542	-15.1	45	42	43	37	31	25
		638	3967	-.089	35			3.24	1872	-22.3	51	47	48	44	39	34
		750	4667	-.124	41			3.81	2203	-30.8	55	51	52	49	47	42
36" x 30"	7.50	300	2016	-.020	12	914 x 762	0.70	1.52	951	-4.9	29	29	30	18	-	-
		413	2772	-.037	22			2.10	1308	-9.3	38	37	38	29	20	14
		525	3528	-.061	30			2.67	1665	-15.1	45	43	44	38	31	25
		638	4283	-.089	36			3.24	2022	-22.3	51	48	48	44	40	35
		750	5039	-.124	41			3.81	2378	-30.8	56	52	52	50	47	42

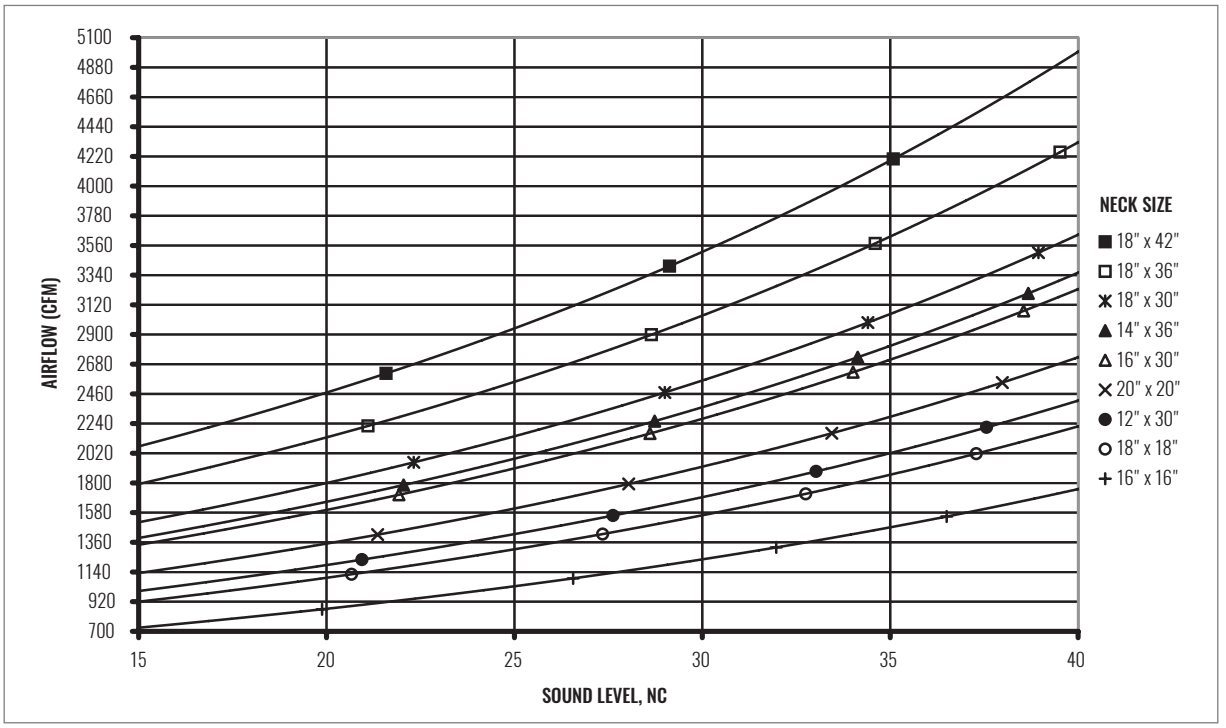
PERFORMANCE DATA | A110D | 30° DEFLECTION (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps						
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa	2	3	4	5	6	7
34" x 34"	8.03	300	2167	-.020	12	864 x 864	0.75	1.52	1023	-4.9	21	21	22	11	-	-
		413	2979	-.037	22			2.10	1406	-9.3	31	29	30	21	12	-
		525	3792	-.061	30			2.67	1790	-15.1	38	35	36	30	23	17
		638	4604	-.089	36			3.24	2173	-22.3	43	40	41	36	32	27
		750	5417	-.124	41			3.81	2557	-30.8	48	44	45	42	39	34
42" x 30"	8.75	300	2369	-.020	13	1067 x 762	0.81	1.52	1118	-4.9	30	30	31	19	-	-
		413	3257	-.037	23			2.10	1537	-9.3	39	38	39	30	21	15
		525	4146	-.061	30			2.67	1956	-15.1	46	44	44	38	32	26
		638	5034	-.089	37			3.24	2376	-22.3	52	48	49	45	40	35
		750	5922	-.124	42			3.81	2795	-30.8	56	52	53	51	48	43
48" x 30"	10.00	300	2722	-.020	13	1219 x 762	0.93	1.52	1285	-4.9	31	30	32	20	-	-
		413	3743	-.037	23			2.10	1766	-9.3	40	38	39	31	22	15
		525	4764	-.061	31			2.67	2248	-15.1	47	44	45	39	32	27
		638	5784	-.089	37			3.24	2730	-22.3	52	49	50	46	41	36
		750	6805	-.124	42			3.81	3212	-30.8	57	53	54	51	49	44
42" x 36"	10.50	300	2872	-.020	14	1067 x 914	0.98	1.52	1355	-4.9	31	31	32	20	-	-
		400	3829	-.035	23			2.03	1807	-8.8	39	38	39	30	20	14
		500	4787	-.055	30			2.54	2259	-13.7	46	43	44	38	30	25
		600	5744	-.079	36			3.05	2711	-19.7	51	48	49	44	39	34
		700	6701	-.108	41			3.56	3163	-26.8	55	52	52	49	46	41
42" x 38"	11.08	270	2736	-.016	11	1067 x 965	1.03	1.37	1291	-4.0	18	18	19	-	-	-
		378	3825	-.031	21			1.92	1805	-7.8	28	27	28	18	-	-
		485	4914	-.052	29			2.46	2319	-12.9	35	33	34	27	19	13
		593	6003	-.077	36			3.01	2833	-19.2	41	38	39	33	28	23
		700	7093	-.108	41			3.56	3347	-26.8	46	42	43	39	36	31
48" x 36"	12.00	270	2970	-.016	11	1219 x 914	1.11	1.37	1402	-4.0	28	29	30	17	-	-
		378	4153	-.031	22			1.92	1960	-7.8	38	37	38	29	19	12
		485	5335	-.052	30			2.46	2518	-12.9	45	43	44	37	30	24
		593	6518	-.077	36			3.01	3076	-19.2	51	48	49	44	39	34
		700	7700	-.108	41			3.56	3634	-26.8	56	52	53	50	46	42
44" x 44"	13.44	270	3347	-.016	12	1118 x 1118	1.25	1.37	1580	-4.0	29	29	30	18	-	-
		378	4680	-.031	22			1.92	2209	-7.8	39	38	39	29	19	13
		485	6012	-.052	30			2.46	2837	-12.9	46	44	45	38	30	25
		593	7345	-.077	37			3.01	3466	-19.2	52	49	50	45	39	34
		700	8677	-.108	42			3.56	4095	-26.8	57	53	54	50	47	42
46" x 46"	14.69	270	3671	-.016	12	1168 x 1168	1.37	1.37	1733	-4.0	29	30	31	18	-	-
		373	5065	-.031	22			1.89	2390	-7.6	39	38	39	29	19	13
		475	6459	-.050	30			2.41	3048	-12.4	46	44	45	38	30	24
		578	7853	-.073	36			2.93	3706	-18.3	51	49	49	44	39	33
		680	9246	-.102	41			3.45	4364	-25.3	56	53	53	50	46	41
48" x 48"	16.00	270	4011	-.016	12	1219 x 1219	1.49	1.37	1893	-4.0	30	30	31	19	-	-
		373	5533	-.031	23			1.89	2611	-7.6	39	38	39	30	19	13
		475	7056	-.050	30			2.41	3330	-12.4	46	44	45	38	30	25
		578	8579	-.073	37			2.93	4049	-18.3	52	49	50	45	39	34
		680	10101	-.102	42			3.45	4767	-25.3	57	53	54	50	47	42

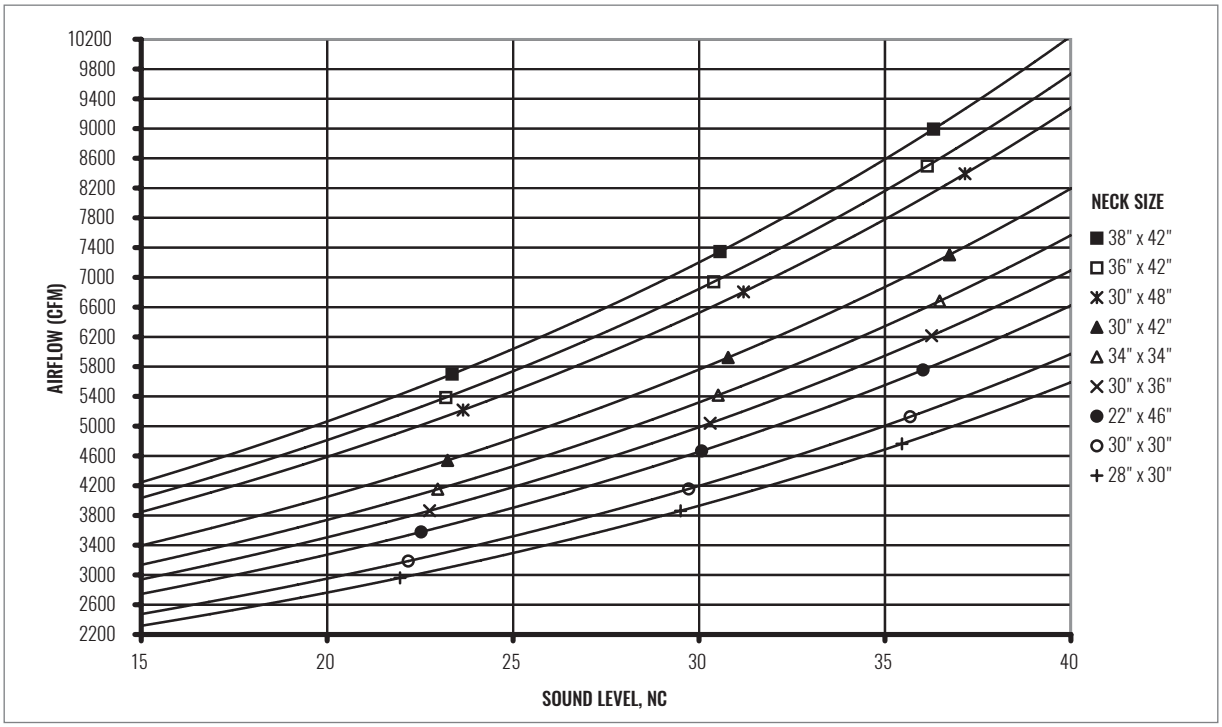
NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10^{-12} Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741.

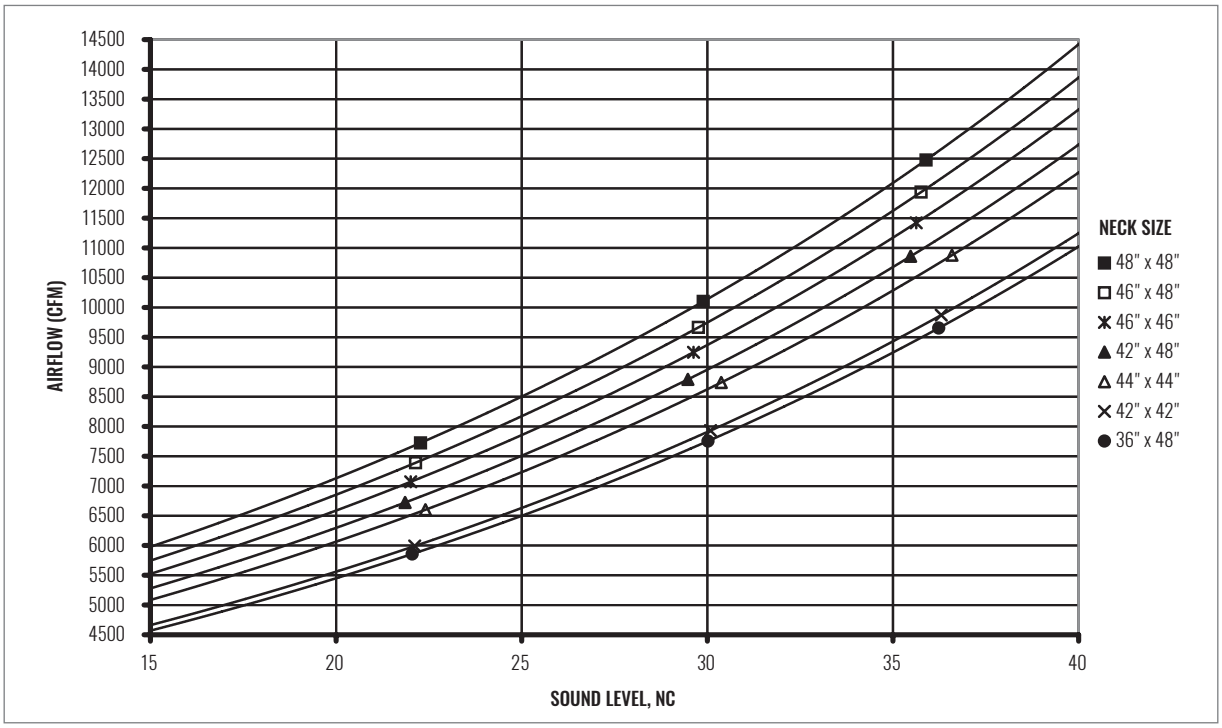
SOUND CHARTS | A110 | 0° DEFLECTION (NO DAMPER)





SOUND CHARTS | A110 | 0° DEFLECTION (NO DAMPER)





A110

Return Grille | Heavy Duty

Tuttle & Bailey

PERFORMANCE DATA | A110 | 0° DEFLECTION (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps						
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa	2	3	4	5	6	7
6" x 6"	0.25	570	71	-.042	11	152 x 152	0.02	2.90	34	-10.4	27	24	25	20	14	-
		703	88	-.063	17			3.57	42	-15.8	33	29	30	26	22	18
		835	105	-.089	21			4.24	49	-22.3	37	33	33	32	30	25
		968	121	-.120	26			4.92	57	-29.9	41	36	37	36	36	31
		1100	138	-.155	29			5.59	65	-38.6	44	39	39	40	41	37
10" x 6"	0.42	570	139	-.042	13	254 x 152	0.04	2.90	66	-10.4	29	26	27	22	16	-
		703	171	-.063	19			3.57	81	-15.8	34	31	32	28	24	19
		835	203	-.089	23			4.24	96	-22.3	39	35	35	33	31	27
		968	236	-.120	28			4.92	111	-29.9	43	38	39	38	37	33
		1100	268	-.155	31			5.59	126	-38.6	46	41	41	42	43	39
12" x 6"	0.50	570	172	-.042	13	305 x 152	0.05	2.90	81	-10.4	30	27	28	22	16	11
		703	213	-.063	19			3.57	100	-15.8	35	31	32	29	25	20
		835	253	-.089	24			4.24	119	-22.3	39	35	36	34	32	27
		968	293	-.120	28			4.92	138	-29.9	43	39	39	39	38	34
		1100	333	-.155	32			5.59	157	-38.6	47	41	42	42	43	39
12" x 8"	0.67	500	222	-.032	11	305 x 203	0.06	2.54	105	-8.0	27	25	26	19	12	-
		650	289	-.054	18			3.30	136	-13.5	34	31	32	27	23	18
		800	356	-.082	24			4.06	168	-20.4	39	35	36	34	31	27
		950	423	-.116	29			4.83	199	-28.8	44	39	40	39	38	34
		1100	489	-.155	33			5.59	231	-38.6	48	42	43	44	44	40
18" x 6"	0.75	500	240	-.032	11	457 x 152	0.07	2.54	113	-8.0	27	25	26	19	12	-
		650	312	-.054	18			3.30	147	-13.5	34	31	32	27	23	18
		800	384	-.082	24			4.06	181	-20.4	40	36	36	34	31	27
		950	456	-.116	29			4.83	215	-28.8	44	39	40	39	38	34
		1100	528	-.155	33			5.59	249	-38.6	48	43	43	44	44	40
22" x 6"	0.92	500	299	-.032	12	559 x 152	0.09	2.54	141	-8.0	28	26	27	20	13	-
		650	388	-.054	19			3.30	183	-13.5	35	32	32	28	23	18
		800	478	-.082	25			4.06	226	-20.4	40	36	37	34	32	27
		950	568	-.116	30			4.83	268	-28.8	45	40	41	40	39	35
		1100	657	-.155	34			5.59	310	-38.6	49	43	44	44	45	41
18" x 10"	1.25	500	465	-.032	13	457 x 254	0.12	2.54	220	-8.0	29	27	28	21	14	-
		650	605	-.054	20			3.30	286	-13.5	36	33	34	29	25	20
		800	745	-.082	26			4.06	352	-20.4	41	37	38	36	33	28
		950	884	-.116	31			4.83	417	-28.8	46	41	42	41	40	36
		1100	1024	-.155	35			5.59	483	-38.6	50	45	45	46	46	42
27" x 8"	1.50	500	548	-.032	13	686 x 203	0.14	2.54	259	-8.0	30	27	28	22	14	-
		650	712	-.054	21			3.30	336	-13.5	36	33	34	30	25	20
		800	877	-.082	27			4.06	414	-20.4	42	38	39	36	34	29
		950	1041	-.116	32			4.83	491	-28.8	46	42	42	41	41	36
		1100	1206	-.155	36			5.59	569	-38.6	50	45	46	46	47	43
24" x 10"	1.67	500	637	-.032	14	610 x 254	0.15	2.54	301	-8.0	30	28	29	22	15	-
		650	829	-.054	21			3.30	391	-13.5	37	34	34	30	25	20
		800	1020	-.082	27			4.06	481	-20.4	42	38	39	37	34	29
		950	1211	-.116	32			4.83	572	-28.8	47	42	43	42	41	37
		1100	1402	-.155	36			5.59	662	-38.6	51	45	46	46	47	43
16" x 16"	1.78	450	635	-.026	11	406 x 406	0.17	2.29	299	-6.5	28	26	27	19	11	-
		613	864	-.048	20			3.11	408	-12.0	36	33	33	29	23	18
		775	1093	-.077	27			3.94	516	-19.2	42	38	39	36	33	28
		938	1322	-.113	32			4.76	624	-28.1	47	42	43	42	41	36
		1100	1551	-.155	37			5.59	732	-38.6	51	46	46	47	47	43
18" x 18"	2.25	450	825	-.026	12	457 x 457	0.21	2.29	389	-6.5	28	27	27	20	11	-
		613	1123	-.048	21			3.11	530	-12.0	36	33	34	29	24	19
		775	1421	-.077	27			3.94	671	-19.2	42	39	39	37	34	29
		938	1719	-.113	33			4.76	811	-28.1	47	43	43	42	41	37
		1100	2017	-.155	37			5.59	952	-38.6	52	46	47	47	48	44

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IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps						
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa	2	3	4	5	6	7
30" x 12"	2.50	450	905	-.026	12	762 x 305	0.23	2.29	427	-6.5	29	27	28	20	12	-
		613	1232	-.048	21			3.11	581	-12.0	37	34	34	29	24	19
		775	1558	-.077	28			3.94	735	-19.2	43	39	40	37	34	29
		938	1885	-.113	33			4.76	890	-28.1	48	43	44	43	42	37
		1100	2212	-.155	38			5.59	1044	-38.6	52	47	47	48	48	44
20" x 20"	2.78	450	1041	-.026	13	508 x 508	0.26	2.29	491	-6.5	29	27	28	20	12	-
		613	1417	-.048	21			3.11	669	-12.0	37	34	35	30	25	19
		775	1793	-.077	28			3.94	846	-19.2	43	39	40	37	34	29
		938	2168	-.113	33			4.76	1023	-28.1	48	44	44	43	42	38
		1100	2544	-.155	38			5.59	1201	-38.6	52	47	48	48	49	45
30" x 16"	3.33	450	1258	-.026	13	762 x 406	0.31	2.29	594	-6.5	28	26	27	19	11	-
		613	1712	-.048	22			3.11	808	-12.0	36	33	33	28	23	18
		775	2167	-.077	29			3.94	1023	-19.2	42	38	38	36	33	28
		938	2621	-.113	34			4.76	1237	-28.1	47	42	43	42	41	36
		1100	3075	-.155	39			5.59	1451	-38.6	51	46	46	47	47	43
36" x 14"	3.50	450	1311	-.026	13	914 x 356	0.33	2.29	619	-6.5	30	28	29	21	13	-
		613	1785	-.048	22			3.11	842	-12.0	38	35	35	30	25	20
		775	2258	-.077	29			3.94	1066	-19.2	44	40	41	38	35	30
		938	2732	-.113	34			4.76	1289	-28.1	49	44	45	44	43	38
		1100	3205	-.155	39			5.59	1513	-38.6	53	48	48	49	49	45
30" x 18"	3.75	450	1435	-.026	14	762 x 457	0.35	2.29	677	-6.5	30	28	29	21	13	-
		613	1953	-.048	22			3.11	922	-12.0	38	35	36	31	25	20
		775	2471	-.077	29			3.94	1166	-19.2	44	40	41	38	35	30
		938	2989	-.113	34			4.76	1411	-28.1	49	44	45	44	43	39
		1100	3507	-.155	39			5.59	1655	-38.6	53	48	48	49	49	45
36" x 18"	4.50	400	1546	-.021	11	914 x 457	0.42	2.03	730	-5.1	27	26	27	18	-	-
		575	2222	-.042	21			2.92	1049	-10.6	37	34	35	29	23	18
		750	2899	-.072	29			3.81	1368	-18.0	44	40	41	38	34	29
		925	3575	-.110	35			4.70	1687	-27.3	49	45	45	44	43	38
		1100	4252	-.155	40			5.59	2006	-38.6	54	48	49	49	50	46
42" x 18"	5.25	400	1817	-.021	11	1067 x 457	0.49	2.03	857	-5.1	24	23	24	15	-	-
		575	2612	-.042	22			2.92	1233	-10.6	34	31	32	26	20	15
		750	3407	-.072	29			3.81	1608	-18.0	41	37	38	35	31	27
		925	4201	-.110	35			4.70	1983	-27.3	46	42	42	41	40	36
		1100	4996	-.155	40			5.59	2358	-38.6	51	45	46	46	47	43
30" x 28"	5.83	400	2060	-.021	12	762 x 711	0.54	2.03	972	-5.1	28	27	28	19	-	-
		575	2961	-.042	22			2.92	1397	-10.6	38	35	36	30	24	19
		750	3862	-.072	30			3.81	1823	-18.0	44	41	41	38	35	30
		925	4764	-.110	35			4.70	2248	-27.3	50	45	46	45	44	39
		1100	5665	-.155	40			5.59	2673	-38.6	54	49	50	50	51	47
30" x 30"	6.25	400	2217	-.021	12	762 x 762	0.58	2.03	1046	-5.1	28	27	28	19	-	-
		575	3187	-.042	22			2.92	1504	-10.6	38	35	36	30	24	19
		750	4157	-.072	30			3.81	1962	-18.0	45	41	42	38	35	30
		925	5126	-.110	36			4.70	2419	-27.3	50	46	46	45	44	39
		1100	6096	-.155	41			5.59	2877	-38.6	55	49	50	50	51	47
46" x 22"	7.03	400	2489	-.021	12	1168 x 559	0.65	2.03	1175	-5.1	29	27	28	19	-	-
		575	3578	-.042	23			2.92	1689	-10.6	38	35	36	31	25	19
		750	4667	-.072	30			3.81	2203	-18.0	45	41	42	39	35	31
		925	5756	-.110	36			4.70	2717	-27.3	50	46	47	45	44	40
		1100	6845	-.155	41			5.59	3230	-38.6	55	50	50	51	51	47
36" x 30"	7.50	400	2688	-.021	12	914 x 762	0.70	2.03	1268	-5.1	29	28	28	20	-	-
		575	3864	-.042	23			2.92	1823	-10.6	38	36	36	31	25	19
		750	5039	-.072	30			3.81	2378	-18.0	45	41	42	39	36	31
		925	6215	-.110	36			4.70	2933	-27.3	51	46	47	46	44	40
		1100	7391	-.155	41			5.59	3488	-38.6	55	50	51	51	51	47

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IP DATA					NC	METRIC DATA					OCTAVE BAND, dB					
DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps						
in	ft²	FPM	CFM	"WG		mm	m²	m/s	L/s	Pa	2	3	4	5	6	7
34" x 34"	8.03	400	2889	-.021	13	864 x 864	0.75	2.03	1363	-5.1	24	23	24	15	-	-
		575	4153	-.042	23			2.92	1960	-10.6	34	31	32	26	21	15
		750	5417	-.072	31			3.81	2557	-18.0	41	37	38	35	31	27
		925	6681	-.110	36			4.70	3153	-27.3	46	42	42	41	40	36
		1100	7945	-.155	41			5.59	3750	-38.6	51	46	46	47	47	43
42" x 30"	8.75	400	3159	-.021	13	1067 x 762	0.81	2.03	1491	-5.1	29	28	29	20	-	-
		575	4540	-.042	23			2.92	2143	-10.6	39	36	37	31	25	20
		750	5922	-.072	31			3.81	2795	-18.0	46	42	43	39	36	31
		925	7304	-.110	37			4.70	3447	-27.3	51	47	47	46	45	40
		1100	8686	-.155	42			5.59	4099	-38.6	56	50	51	51	52	48
48" x 30"	10.00	400	3629	-.021	13	1219 x 762	0.93	2.03	1713	-5.1	30	28	29	20	11	-
		575	5217	-.042	24			2.92	2462	-10.6	39	36	37	32	26	20
		750	6805	-.072	31			3.81	3212	-18.0	46	42	43	40	36	32
		925	8393	-.110	37			4.70	3961	-27.3	52	47	48	46	45	41
		1100	9981	-.155	42			5.59	4710	-38.6	56	51	51	52	52	48
42" x 36"	10.50	370	3542	-.018	11	1067 x 914	0.98	1.88	1672	-4.4	28	27	28	18	-	-
		563	5385	-.041	23			2.86	2541	-10.1	39	36	37	31	25	19
		725	6941	-.067	30			3.68	3276	-16.8	45	42	42	39	35	30
		888	8496	-.101	36			4.51	4010	-25.2	51	46	47	45	44	39
		1050	10052	-.141	41			5.33	4744	-35.2	55	50	51	50	50	46
42" x 38"	11.08	370	3749	-.018	11	1067 x 965	1.03	1.88	1769	-4.4	22	21	22	13	-	-
		563	5699	-.041	23			2.86	2690	-10.1	33	30	31	26	19	14
		725	7346	-.067	31			3.68	3467	-16.8	40	36	37	33	30	25
		888	8992	-.101	36			4.51	4244	-25.2	45	41	41	40	38	34
		1050	10639	-.141	41			5.33	5021	-35.2	49	44	45	45	45	41
48" x 36"	12.00	360	3960	-.017	11	1219 x 914	1.11	1.83	1869	-4.1	26	26	27	17	-	-
		533	5858	-.036	22			2.71	2765	-9.1	37	34	35	29	22	16
		705	7755	-.064	30			3.58	3660	-15.9	44	40	41	37	33	29
		878	9653	-.099	36			4.46	4556	-24.6	50	45	46	44	42	38
		1050	11550	-.141	41			5.33	5451	-35.2	54	49	50	50	50	46
44" x 44"	13.44	360	4463	-.017	11	1118 x 1118	1.25	1.83	2106	-4.1	27	26	27	17	-	-
		533	6601	-.036	22			2.71	3115	-9.1	37	34	35	29	22	17
		705	8739	-.064	30			3.58	4125	-15.9	44	41	41	38	34	29
		878	10878	-.099	37			4.46	5134	-24.6	50	46	46	44	43	38
		1050	13016	-.141	42			5.33	6143	-35.2	55	50	50	50	50	46
46" x 46"	14.69	360	4895	-.017	12	1168 x 1168	1.37	1.83	2310	-4.1	27	26	27	17	-	-
		520	7071	-.035	22			2.64	3337	-8.6	36	34	35	28	21	16
		680	9246	-.059	30			3.45	4364	-14.8	43	40	41	37	32	27
		840	11422	-.091	36			4.27	5391	-22.5	49	45	46	43	41	37
		1000	13598	-.128	41			5.08	6417	-31.9	54	49	49	49	48	44
48" x 48"	16.00	360	5348	-.017	12	1219 x 1219	1.49	1.83	2524	-4.1	27	26	27	17	-	-
		520	7724	-.035	22			2.64	3646	-8.6	37	34	35	29	22	16
		680	10101	-.059	30			3.45	4767	-14.8	44	40	41	37	33	28
		840	12478	-.091	36			4.27	5889	-22.5	49	45	46	44	41	37
		1000	14855	-.128	41			5.08	7011	-31.9	54	49	50	49	48	44

NOTES: 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.