

# CONSTRUCTING ENCLOSURES WITH THIELE-SMALL PARAMETERS

Model	(DC VC Res) Rvc	(res frequency) Fo	(Zmax at Fo) Zo	(piston area) Sd	(flux *length) BL	(Ref efficiency) No	SPLo	Diameter	(Mech Q) Qms	(Elec Q) Qes	(Total Q) Qts	(Acous vol.) Vas	(compliance) Cms	(Total mass) Mms	(diaphragm mass) Mmd	Xmax
V-15DF	3.900	36.5	10.3	0.0834	7.42	0.9	na	32.6	2.08	1.26	0.79	241	244	77.8	64.0	4
BOV-12AL	4.300	33.3	22.3	0.0523	10.88	0.38	na	25.6	3.32	0.80	0.64	85	219	104.6	97.7	4
V-12AL	4.100	30.9	19.3	0.0541	6.90	0.46	na	26.1	3.74	1.02	0.80	165	438	60.7	54.0	4
V-12LA	4.300	32.3	53.7	0.0535	7.750	1.11	na	26.1	7.45	0.65	0.60	221	544	44.7	37.5	4
V-12DFO	3.700	37.8823	15.8535	0.0535	7.0742	0.2612	na	na	5.2358	1.5965	1.2234	79.0824	194.5692	90.7178	83.6024	4
V-12MT	3.450	40.6961	22.7269	0.0494	7.7907	0.4068	na	na	6.2030	1.1128	0.9435	69.2604	199.7661	76.5618	70.2462	4
V-12G	4.300	32.3	53.7	0.0535	7.750	1.11	na	26.1	7.45	0.65	0.6000	221	544	44.7	37.5	4
V-12XL	4.1271	32.2833	19.4519	0.0526	8.0124	0.4236	na	na	3.6313	0.9779	0.7705	127.3286	324.0831	74.9941	68.0575	na
BOV-10AL	4.100	36.4	18.1	0.0346	8.35	0.27	na	21.0	2.97	0.88	0.68	50.0	294	64.9	61.2	4
V-10AL	3.900	48.4	17.1	0.0360	5.42	0.27	na	21.4	6.09	1.82	1.40	44.0	242	44.7	40.7	4
V-10LA	4.000	51.5	18.2	0.0353	5.47	0.90	na	21.2	3.67	1.04	0.81	71.0	400	23.9	20.1	4
V-10DF	3.800	35.4954	17.8432	0.0339	8.4123	0.26	na	20.7	3.0122	0.8151	0.6415	48.2047	295.3870	68.0621	64.4732	4
V-10DFO	4.000	47.0	18.6	0.0346	6.81	0.31	na	21.0	4.67	1.27	1.00	39.0	228	50.2	46.5	4
V-10MT	3.7686	47.0016	12.1418	0.0353	5.7713	0.3054	na	na	3.3153	1.4921	1.0290	45.3827	256.7647	44.6560	40.8457	4
V-10XL	3.9739	47.0016	18.5802	0.0346	6.8062	0.3066	na	na	4.6744	1.2718	0.9998	38.8300	228.4112	50.1994	46.4987	na
V-8LA	4.000	55.4	22.5	0.0291	5.75	0.37	na	16.7	4.75	1.02	0.84	23.0	339	24.3	22.4	4
V-8DF	3.800	55.4	22.5	0.0219	5.75	0.37	na	16.7	4.75	1.21	0.85	55.0	339	24.3	22.4	4
V-8DFO	4.000	55.4	22.5	0.0219	5.75	0.37	na	16.7	4.75	1.21	0.85	55.0	339	24.3	22.4	4
V-8XL	4.000	55.4	22.5	0.0219	5.75	0.37	na	16.7	4.75	1.21	0.85	55.0	339	24.3	22.4	4
MB-103CT	3.800	39.8055	15.2402	0.0330	4.95	0.2563	na	na	4.5472	1.5104	1.1338	63.4855	410.5334	38.9409	35.4939	na
MB-83CT	3.6635	59.7748	21.1888	0.0210	8.5393	0.1706	na	na	4.8170	1.0070	0.8329	8.3192	132.8450	53.3653	51.6154	na
MB-62XT	3.800	87.0	14.7	0.0119	3.450	0.31	na	12.3	4.46	1.56	1.1600	8.0	374	8.9	8.2	4
MB-52XT	3.800	77.2	15.7	0.0087	2.90	0.22	na	10.5	4.46	1.43	1.0800	7.0	655	6.5	6.0	4
MB-42XT	3.800	107.4	16.0	0.0053	3.18	0.20	na	8.2	3.63	1.14	0.8700	2.0	492	4.5	4.2	4
BOA-12AL	3.81	34.47	24.10	3.80	10.20	0.39	88.00	30.00	3.81	0.72	0.60	70.27	236.93	90.00	84.38	5.00
BOA-10AL	4.02	40.81	101.37	2.65	10.47	0.41	88.14	25.00	12.93	0.53	0.51	33.10	268.90	56.55	53.65	6.00
ZX-122XPRO	3.30	34.42	64.46	2.60	15.71	0.47	88.77	30.00	7.13	0.38	0.36	45.87	161.31	132.51	127.67	9.50
ZX-102XPRO	3.34	36.47	62.38	1.90	13.45	0.43	90.12	25.00	3.36	0.42	0.37	33.29	189.45	128.27	131.56	9.00
BOZ-12AL	3.65	32.34	50.24	2.80	16.08	1.20	92.81	30.00	3.12	0.24	0.23	9.67	283.91	85.30	79.41	9.50
ALX-122SP	3.30	32.40	60.31	2.70	13.52	0.63	90.00	30.00	6.34	0.37	0.35	70.19	241.75	99.86	94.33	10.50
ALX-102SP	3.34	38.83	58.20	2.00	11.79	0.55	89.45	25.00	5.75	0.35	0.33	34.20	281.68	59.63	56.76	9.00
SYLB-12	3.76	22.38	22.76	1.75	8.28	0.25	86.93	30.00	4.32	0.85	0.71	81.08	294.93	98.67	92.44	8.50
SYLB-10	3.62	29.53	32.26	1.35	8.80	0.18	88.19	25.00	5.52	0.70	0.62	51.58	361.22	80.41	77.17	8.50
	½	Hz	½	sqM	TM	%						liters	uM/N	gram	gram	mm

The above data may be used for enclosures with standards approved by BM Audio Labs, Inc.  
All rights reserved. Copyright BM Audio Labs, Inc. [www.bmaudio.com](http://www.bmaudio.com)