

Speaker Building

Drivers

The Woofer Selection Guide

The Woofer Selection Guide is intended to help you select the correct woofer for your application. Woofers are sorted by size, enabling quick comparisons between possible options for your particular speaker system. Many woofers can be used in sealed or vented applications, though there is a tradeoff between enclosure size and bass extension. Look at the X_{MAX} and sensitivity issues to get an idea of what the real-world performance of the woofer can be. The higher the X_{MAX}, the greater the low-frequency output potential; the higher the SPL, the less amplifier power it will take to achieve a desired playback level.

The enclosure volumes and F3s are based on BassBox 6 Pro calculations using "typical" amount of fill. In most cases these represent "optimum" volumes that can be adjusted in size according to the goals of the system. For example, a smaller than optimum vented box is often used for high-output, high-power applications, while for a home speaker will often use a larger than optimum vented box for maximum low-frequency extension. By damping the enclosure (particularly in a sealed box) the recommended enclosure size can be reduced by up to 25%. Visit www.parts-express.com for more detailed information and enclosure suggestions.

Note: NR means that the woofer is Not Recommended for the enclosure type based on its parameters.



Size	Mfg. #	Model #	Imp. Ohms	Power Handling RMS (W)	SPL (dB) 1W/1m	Xmax (mm)	Qts	Sealed Volume (cu. ft.)	Sealed F3 (Hz)	Vented Volume (cu. ft.)	Vented F3 (Hz)	Dv	Lv	PE #	Page #
4"	Goldwood	GW-204/4S	4	40	83	1.5	1.69	0.03	148	0.58	71	2.50	0.75	290-370	185
4"	Goldwood	GW-204/8S	8	40	84	1.5	1.56	0.09**	116	0.52	72	2.50	1.00	290-372	185
4"	Goldwood	GW-4028/S	8	40	84	1.5	0.69	0.10	108	0.25	57	1.00	0.84	290-373	184
4"	Hi-Vi	B4N	8	25	85	3.2	0.52	0.39	124	0.14	64	1.00	4.80	297-429	196
4"	Hi-Vi	M4N	8	20	82	3	1.08	0.17	71	1.06	38	2.00	1.61	297-434	196
4"	Morel	MW-113	8	150	87	3	0.75	0.29	85	0.52	44	1.50	2.10	297-010	199
4"	Morel	MW-114S	8	150	87	3.5	0.40	0.05*	181	0.09	120	1.00	6.69	297-012	199
4"	Morel	CAW428	8	150	88	4	0.38	0.11*	170	0.19	78	1.00	1.88	297-080	201
4"	Tang Band	W4-654S	8	40	86	3	0.48	0.03	147	0.13	84	1.00	5.25	264-816	192
4"	Tang Band	W4-1052SA	4	45	87	3.4	0.44	0.06	127	0.20	64	1.00	2.40	264-828	192
4"	Tang Band	W4-616S	8	40	88	3	0.34	0.04	178	0.11	106	1.00	3.12	264-818	192
4"	Tang Band	W4-656SB	8	45	87	3	0.35	0.06	135	0.17	69	1.00	2.60	264-820	191
4"	Tang Band	W4-992S	8	50	86	3	0.35	0.03	146	0.84	64	1.00	6.50	264-824	193
4"	Tang Band	W4-1337S	8	25	87	3	0.37	0.03	161	0.11	92	1.00	3.24	264-848	192
4"	Tang Band	W4-1320SB	8	25	89	3	0.37	0.05	176	0.13	100	1.50	5.25	264-846	192
4"	Tang Band	W4-657S	8	30	88	3	0.38	0.05	145	0.15	82	1.00	2.60	264-817	192
4"	Tang Band	W4-937S	8	25	88	4.5	0.26	0.04	221	0.08	110	1.00	3.36	264-821	192
4-1/2"	Pioneer	A11EC80-02F	8	20	90	1.1	0.35	0.06	170	0.16	100	1.00	1.50	290-010	187
5"	Dayton	RS125S-8	8	30	87	2.8	0.44	0.17*	138	0.20	64	1.00	2.50	295-360	175
5"	Dayton	RS125-4	4	30	88	3.5	0.52	0.07	107	0.30	47	1.00	2.75	295-370	175
5"	Hi-Vi	F5	8	70	86	2.75	0.41	0.33*	107	0.44	51	1.38	3.90	297-435	197
5"	Hi-Vi	M5N	8	35	85	2.5	0.42	0.12	101	0.33	54	1.00	2.50	297-436	196
5"	Hi-Vi	D5G	8	120	83	4.8	0.38	0.12	83	0.33	47	1.00	4.18	297-419	197
5"	Hi-Vi	M5A	8	35	85	2.5	0.46	0.15	92	0.44	47	1.00	1.90	297-437	196
5"	Hi-Vi	D5.8	8	60	84	5	0.39	0.23*	97	0.33	47	1.00	3.39	297-439	197
5"	Jantzen	JA5006	6	100	85	6	0.53	0.14	104	0.37	49	1.50	4.75	297-700	204
5"	Morel	MW-143	8	150	89	3.5	0.36	0.13*	161	0.24	105	1.50	6.90	297-052	202
5"	Morel	MW-144	8	150	88	3.5	0.55	0.09	110	0.25	65	1.50	7.90	297-022	199
5"	Morel	H5.1	8	150	88	3.5	0.36	0.11	114	0.28	69	1.50	6.20	297-060	200
5"	Morel	H5.2	8	150	88	3.5	0.36	0.09	112	0.21	73	1.50	8.75	297-062	200
5"	Morel	HU521	8	160	88	3.5	0.37	0.11	111	0.27	67	1.50	6.80	297-070	200
5"	Morel	HU531	8	180	86	4.25	0.37	0.09	104	0.22	64	1.00	3.75	297-074	200
5"	Morel	CAW538	8	150	86	3	0.38	0.21*	114	0.34	52	1.50	6.60	297-082	201
5-1/4"	Aurum Cantus	AC-130F1	8	60	89	5	0.29	0.12	111	0.32	70	1.50	5.75	296-400	203
5-1/4"	Aurum Cantus	AC-130MKII	8	60	90	5	0.28	0.26*	122	0.51	78	1.00	1.87	296-404	203
5-1/4"	Dayton	DC130AS-8	8	30	88	2.5	0.40	0.17	93	0.49	51	1.38	3.80	295-300	180
5-1/4"	Dayton	DC130BS-8	8	30	88	2.5	0.40	0.14	103	0.40	58	1.38	3.55	295-301	183
5-1/4"	Dayton	DC130BS-4	4	30	89	2.5	0.34	0.10	120	0.23	75	1.38	5.00	295-302	183
5-1/4"	Dayton	DA135-8	8	30	85	3	0.46	0.10	98	0.32	52	1.38	5.60	295-330	181
5-1/4"	Dynavox	LW5005PMR	8	100	85	3	0.54	0.16	79	0.50	39	1.50	5.30	295-600	183
5-1/4"	Goldwood	GW-205/4S	4	70	87	2	0.68	0.30	106	0.52	54	1.38	0.70	290-374	185
5-1/4"	Goldwood	GW-205/8S	8	70	87	2	0.81	0.31	93	0.72	50	2.00	1.30	290-376	185
5-1/4"	Goldwood	GW5028/S	8	70	85	2	0.90	0.21**	84	0.75	46	1.50	0.57	290-377	184
5-1/4"	Tang Band	W5-1138SA	4	40	82	9.25	0.49	0.12	77	0.39	39	2 x 2	8.50	264-831	193
5-1/4"	Tang Band	W5-876SA	8	50	86	5	0.33	0.08*	143	0.15	99	1.00	6.11	264-826	193
5-1/4"	Tang Band	W5-704S	8	25	88	3	0.37	0.30*	131	0.29	73	1.50	4.35	264-850	192
5-1/2"	Goldwood	GW-S525-8	8	70	87	2	0.84	0.20**	88	0.58	47	1.50	1.15	290-302	183
5-1/2"	Goldwood	GW-S525-4	4	70	87	2	0.88	0.29**	77	0.75	31	1.50	1.20	290-301	183
6"	Dayton	RS150S-8	8	40	88	4	0.40	0.14	101	0.40	57	1.50	4.60	295-362	175
6"	Dayton	RS150-4	4	40	89	4.4	0.41	0.12	115	0.36	64	1.50	4.00	295-372	175
6"	Hi-Vi	F6	8	60	89	3.55	0.38	0.21	94	0.56	54	1.50	3.71	297-440	197