III. EV PREMIUM MUSICAL INSTRUMENT AND SOUND REINFORCEMENT SPEAKERS, SELECTED COMPARATIVE SPECS[1]

SOUND REINFORCEMENT SPEAKERS

Model	Long-Term Power Capacity[2]	Half-Space Sensitivity (1 W/1 m)[3]	Reference Efficiency	X_{max}[4]	X_{lin}[5]	Typical/ Range of Vented Box Volume(s)	Typical/ Range of LF 3-dB-Down Point(s)	Applications
DL10X	300 W	98 dB	3.5%	0.16 in.	0.6 in.	0.4 ft³	115 Hz	Mid-bass reproducer, including horn loaded
DL12X	300 W	95 dB	4.5%	0.16 in.	0.6 in.	1.3-2.6 ft³	58-80 Hz	Woofer in compact two-way systems
DL15X	400 W	98 dB	5.0%	0.16 in.	0.6 in.	3.2-6.4 ft³	45-63 Hz	Woofer in two-way extended-LF systems
DL12Sb	200 W	95 dB	3.64%	0.16 in.	0.86 in.	2-4 ft³	43-54 Hz	Very compact subwoofer
DL18mt	400 W	96 dB	2.9%	0.22 in.	0.5 in.	8 ft³	38 Hz	Subwoofer, especially for f_3's >40 Hz
EVX-150A	1,000 W[2]	98 dB	4.32%	0.25 in.	0.78 in.	6-10 ft³	40-55 Hz	High-output woofer in two-way extended-LF systems; high-output subwoofer, especially >40 Hz
EVX-180A	1,000 W[2]	98 dB	3.42%	0.25 in.	0.98 in.	6-10 ft³	30-40 Hz	High-output subwoofer, especially <40 Hz
MUSICAL INSTRUMENT SPEAKERS								
10BX	150 W	98.5 dB	3.0%	0.13 in.	0.5 in.	~1.2 ft³	N/A[6]	Extended-range bass guitar
15BX	400 W	102 dB	5.3%	0.16 in.	0.6 in.	3-5 ft³	N/A[6]	Long-throw bass guitar
18BX	400 W	101 dB	5.2%	0.16 in.	0.6 in.	5-10 ft³	N/A[6]	Long-throw bass guitar
EVM-10M	300 W	99 dB	5.0%	0.13 in.	0.5 in.	0.5 ft³	90 Hz	High-performance guitar speaker
EVM-12L	300 W	100 dB	4.3%	0.13 in.	0.5 in.	1.3 ft³	60 Hz	The classic guitar speaker!
FORCE 10	150 W	98 dB	2.6%	0.13 in.	0.5 in.			Lead
FORCE 12	150 W	99 dB	2.9%	0.13 in.	0.5 in.			Lead
FORCE 15	150 W	100 dB	3.3%	0.13 in.	0.5 in.			Lead/bass

1. *Culled from assorted engineering data sheets and other materials. Some data is approximate but still useful in "positioning" each speaker.*
2. *Shaped random noise applied for eight hours with a 6-dB crest factor, per EIA RS-426-A, with the exception of the EVX-150A and EVX-180A, whose listed capacities are "program power," a two-hour sine-wave test at minimum impedance,* chosen to facilitate competitive comparisons.
3. Broadband averages, bandwidths vary but most are a conservative 100-800 Hz.
4. X_{max} = maximum one-way excursion ability for 10 percent distortion of the current waveform, a conservative indication of maximum speaker output.
5. X_{lin} = maximum one-way excursion before speaker mechanics limit excursion. Electro-Voice has found that in musical instrument and subwoofer applications normal use typically drives core motion beyond X, so that X_{lin} is a better indicator of maximum useful speaker output.
6. Tune the enclosure in the range of 34-44 Hz, depending on the lowest tone on the bass guitar.

...and special mechanical details as noted below