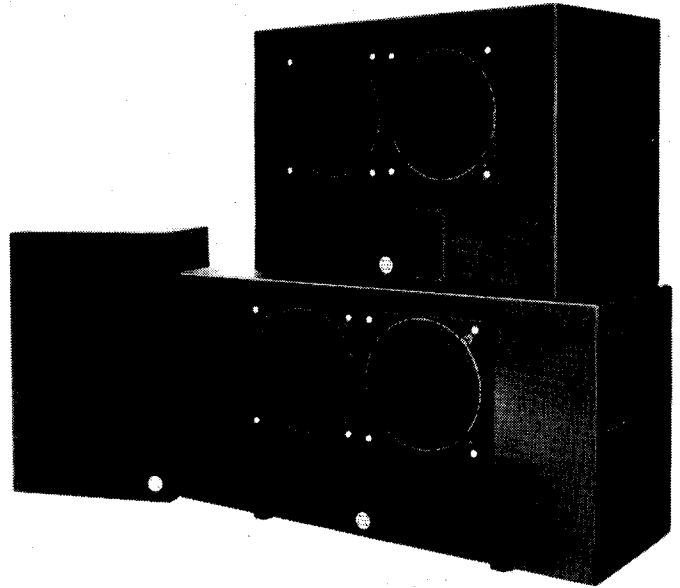
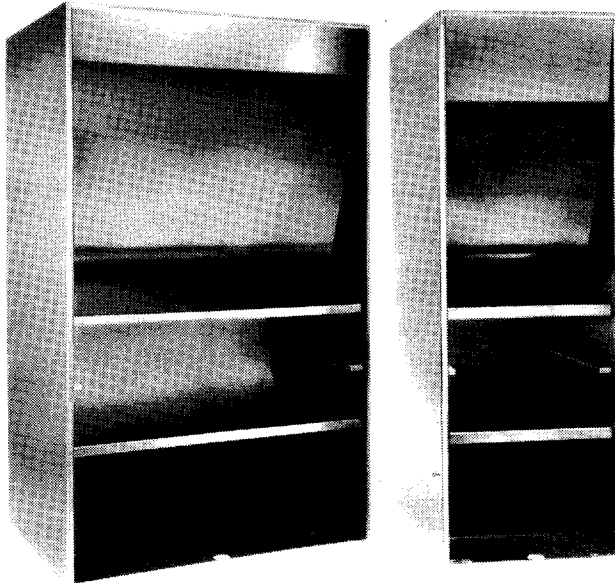
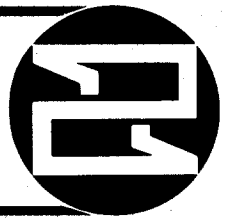


Sub-Woofer Systems

**SB-200-LC, SB-500-LC, SB-335-LR,
SB-600-LC, BH-440-LR and BH-880-LR**



The EAW Sub-Woofer Series is designed as a solution to the problem of providing deep bass in all existing systems including sound reinforcement, high level playback, motion picture and disco applications. The use of the EAW sub-woofer system can extend the usable response of any system and faithfully reproduce the lowest fundamentals in music without compromising definition or flat response. This new level of performance can add dramatically to the impression of any performance.

EAW's vast experience in designing and constructing loudspeaker systems on the leading edge of technology has enabled us to develop this advanced line of sub-woofer systems. This is just the latest step in a long list of firsts that make EAW the world's largest supplier of professional specialty loudspeaker systems, including the first single box, flying, horn loaded, concert touring loudspeaker system and the first truly mathematically correct bass horn (BH-212-CT).

Our new series of sub-woofer systems is the direct result of the commitment of Kenton Forsythe, EAW's Director of Engineering, who has spent years of research and field testing in supplying custom designed systems for over 100 clubs, theaters and discos.

This extensive field experience affords EAW the engineering capability to plug real world problems into our design equations, including the effects of low tuning frequencies on driver reliability and the effects that multiple system arrays have on output performance.

EAW's impressive engineering capabilities are matched with our unique ability to turn complex concepts into reality with unsurpassed consistency and durability. The net result is a comprehensive range of sub-woofer loudspeakers designed to add dramatically to any performance.

These six different sub-woofer systems are each designed to fulfill your specific requirements in terms of output capabilities and cost. There is one system designed to do exactly what you are looking for if true deep bass is your objective.

SB-200-LC

The SB-200-LC is designed for medium output, nearfield applications including studio monitoring, club reinforcement, high fi playback, motion picture theatre sound, and disco applications where flat response down to 29 Hz is required. The SB-200-LC comes equipped with the new SB-384 high definition

reference series 15 inch driver. It will function well up to 400 Hz making it very versatile for a number of uses. The small size and flat response make it ideal for use in installations requiring unobtrusive loudspeakers. The SB-200-LC is intended for permanent installation applications and is finished in black lacquer paint, with a black cloth grill assembly.

SB-335-LR

The SB-335-LR is designed for medium output, portable, nearfield applications like the SB-200-LC except that the cross-grain-laminated birch hardwood construction, catalyzed polyurethane finish and steel hardware and speaker grill make it indestructible in road use. The SB-335-LR is loaded with the low distortion EAW/RCF LF-443-R driver for solid response to 30 Hz.

SB-500-LC

The SB-500-LC is a high output, nearfield subwoofer system for applications requiring a combination of response down to 25 Hz and high output capabilities for large disco and theater applications. It is supplied with two EAW reference series SB-384 drivers for low distortion and high definition. The SB-500-LC is intended for permanent installation applications and due to this the enclosure is made of high density korpine for its low resonance properties. Perforated steel grills and recessed input plate are standard.

SB-600-LC

The SB-600-LC is sonically identical to the SB-500-LC system, with the addition of road packaging. This

includes hardwood skids, rattle free recessed handles, and all cross-grain-laminated birch construction. This system is designed for portable applications where reproduction of the lowest fundamentals in music is critical and concert sound pressure levels are required.

BH-880-LR and BH-440-LR

The BH-880-LR & BH-440-LR horn loaded sub-woofer systems are designed for applications requiring long throw bass to fill a large room or outdoor area. The horn loading serves to dramatically increase the output and directivity enabling the coverage of large areas with high level and intelligibility. The driver of both units, the EAW/RCF LF-440-R, is capable of handling the power and excursions required in this true horn loaded application. The basic design of these horns achieves maximum efficiency, but sacrifices high frequency bandwidth to do so. The result is a very sharp cutoff above 150 Hz requiring a low crossover frequency. Additionally due to the large mouth area required to reproduce flat bass to the 30 Hz region, we suggest the use of multiple horns for applications requiring extraordinary bass response. This is due in part to the unusually low flare rate incorporated in these horns and to take full advantage of this feature a quad array must be used. When these units are used singly the output capabilities are excellent but some shelving of the bass response is expected in the 35 to 50 Hz region. Due to their large size, these units are only available in a permanently installed configuration. The catalyzed polyurethane finish makes them usable in fixed outdoor applications.

Specifications

	SB-200-LR	SB-335-LR	SB-500-LR	SB-600-LR	BH-440-LR	BH-880-LR
Type:	Single 15" Vented	Single 18" Vented	Dual 15" Vented	Dual 15" Vented	Single 18" Horn loaded	Dual 18" Horn loaded
Sensitivity						
1w @ 1m:	95 dB SPL	96 dB SPL	100 dB SPL	100 dB SPL	107 dB SPL	110 dB SPL
Reference Efficiency:	2.2%	2.3%	4.4%	4.4%	na	na
Recommended Operating Range:	30 to 400 Hz	25 to 250 Hz	20 to 200 Hz	20 to 200 Hz	45 to 250 Hz	38 to 150 Hz
Low Frequency Response						
- 3 dB:	33 Hz	31 Hz	30 Hz	28 Hz	50 Hz	47 Hz
- 10 dB:	28 Hz	24 Hz	22 Hz	22 Hz	39 Hz	32 Hz
Recommended Crossover Frequency:	400 Hz	250 Hz	200 Hz	200 Hz	250 Hz	150 Hz
Slope (db/oct):	12 or 18	12 or 18	12 or 18	12 or 18	18	18
Power Handling						
Nominal Continuous Sine Wave:	250 w RMS	200 w RMS	500 w RMS	500 w RMS	200 w RMS	400 w RMS
Program:	400 w	300 w	800 w	800 w	300 w	600 w
Driver Included:	SB-384-R	LF-443-R	SB-384-R (2)	SLF-440-R	LF-440-R (2)	
Maximum Output (with rated nominal input measured at 1 meter):	117 dB SPL	118 dB SPL	126 dB SPL	126 dB SPL	128.5 SPL	134.5 dB SPL
Dimensions						
Height:	36"	42 ⁵ / ₁₆ "	23 ³ / ₄ "	30 ⁷ / ₁₆ "	24"	42"
Width:	24"	29 ³ / ₁₆ "	32 ³ / ₄ "	59 ³ / ₄ "	72"	72"
Depth:	17 ¹ / ₈ "	19 ³ / ₄ "	47 ³ / ₄ "	23 ³ / ₄ "	36"	36"



Eastern Acoustic Works, Inc.

59 Fountain Street, Box 111, Framingham, Massachusetts 01701/(617) 620-1478