

**JBL**

# 4897

## Very High Output, Low Frequency Array Element

### HLA Series

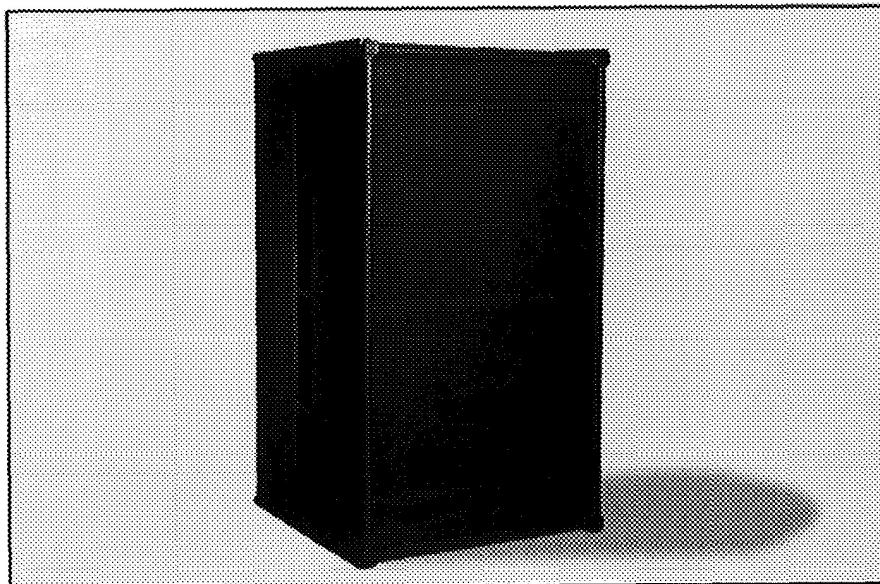
### Key Features:

- ▶ High Power Transducers  
Dual 800 W Super Vented Gap Transducers provide High Output with Low Distortion and Minimum Power Compression
- ▶ Integral Composite/SpaceFrame Design  
Composite Enclosure Structurally Mounted in a Patented<sup>2</sup> Trapezoidal Aluminum SpaceFrame Reduces Enclosure Losses for Greater Output, Lowers Weight, and Permits Subs and Fullrange Elements to be Easily used anywhere in an Array
- ▶ Linear Dynamics Aperture Vent Design  
Higher Output, Extended Bandwidth and Lower Distortion due to No Vent Compression
- ▶ Simple Rigging System  
Only Three Components; Grid, Connecting Bar, Lifting Bar

### HLA Systems

JBL's commitment to providing audio professionals the highest technology through innovation is demonstrated by each component of the 4897. Instead of repackaging an existing system design, JBL engineers took a different approach that included carefully analyzing each element of a subwoofer system to minimize power losses.

Replacing a wooden enclosure with a trapezoidal aluminum patented<sup>2</sup> SpaceFrame that is integrated into a carbon fiber/honeycomb composite enclosure was the first step. This greatly increased structural rigidity for a clear gain in output, while also saving weight. This design approach was coupled with the Linear Dynamics Aperture, an aerodynamically designed opening that eliminates vent compression. As demonstrated by Thiele-Small enclosure parameters, the vent and box losses have been greatly reduced, thereby raising the vent and box Q's an order of magnitude.



JBL's Maximum Output SVG Super Vented Gap 2242H transducers with an 800 Watt AES power rating (per transducer) drive the system. The resulting 4897 is a subwoofer providing 3 dB more output over its full bandwidth, and up to 6 dB more full power output below 50Hz than competitive, traditional high-power subwoofer designs. The 4897 can be arrayed interchangeably with the HLA Series model 4895 3-way system. These elements are extremely lightweight. A 16-element array weighs only about 3,600 pounds, and two one-ton chain motors can be used to suspend an Arena-sized cluster made up of this quantity of 4895/4897 units.

### Product Specifications:

#### System

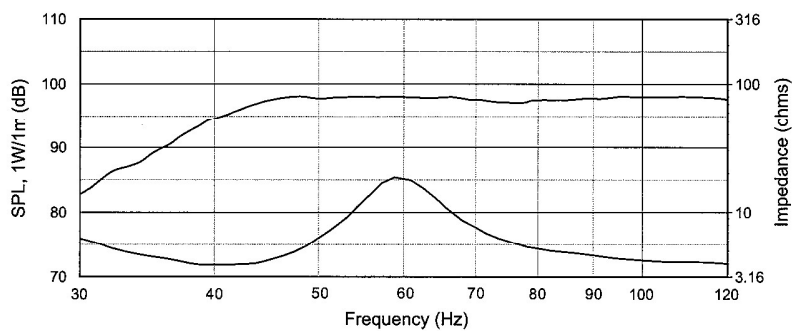
Frequency Response ( $\pm 3$ dB) <sup>1</sup> :	34 Hz-150 Hz
Maximum Peak Output:	138 dB @ 1m
Recommended Bandpass:	27 Hz, 120 Hz
<b>Transducers</b>	
Low Frequency:	Two 2242H, 457 mm (18 in) dia., 100 mm (4 in) Super Vented Gap
Nominal Impedance:	8 Ohms each Transducer
Input Power Rating (each Transducer):	800 W, AES
Sensitivity:	98 dB, 1 W, @ 1 m (3.3 ft), 35-120 Hz
Enclosure/SpaceFrame™	Trapezoidal, 15° Side Angle, 6061, T6 Aluminum, Carbonfiber/Honeycomb Foamcore/glassfiber Composite
Flying System:	1 Beam Connecting Bar, Lifting Bar
Grille:	Black Perforated Steel, Foam Backed
Input Connectors:	NL8, or Options
Dimensions (HxWxD):	1333 mm x 838 mm x 889 mm (52.5 in x 33 in x 35 in)
Net Weight:	109 kg (240 lbs)
Shipping Weight:	116 kg (255 lbs)

<sup>1</sup>For 4 units arrayed together.

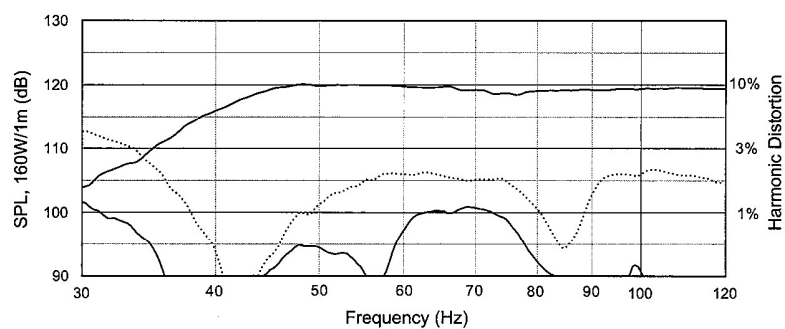
<sup>2</sup>U.S. Patent #5,602,366, Foreign patents pending.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

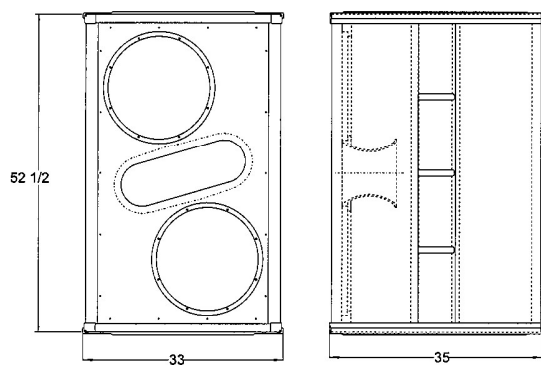
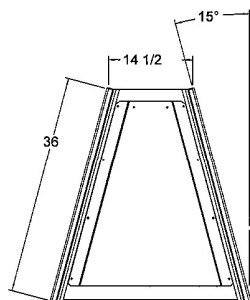
## ► 4897 Very High Output, Low Frequency Array Element



Frequency Response,  
Impedance



AES Distortion (160 W, 10% Power)



JBL Professional  
8500 Balboa Boulevard, P.O. Box 2200  
Northridge, California 91329 U.S.A.

■ A Harman International Company

SS 4897  
CRP 10M  
2/97