

HLA Series

Key Features:

- ▶ **High Power Transducers**
New Dual 800 W Lightweight Differential Drive® Transducers provide High Output with Low Distortion and Minimum Power Compression
- ▶ **Integral Composite/SpaceFrame™ Design**
Composite Enclosure Structurally Mounted in a Patented² Trapezoidal Aluminum SpaceFrame Reduces Enclosure Losses for Greater Output, Lowers Weight, and Permits Bass 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 Array Rigging System**
Only Three Components; ATM Truss Module, Connecting Bar, Lifting Bar



HLA (Horn Loaded Array) Systems

JBL's commitment to providing audio professionals the highest technology through innovation is demonstrated by various aspects of the 4897A. During the HLA system design phase, JBL engineers carefully analyzed each design element of a subwoofer system to minimize power losses.

Replacing a wooden enclosure with a trapezoidal aluminum patented² 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 aero-dynamically 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.

With the 4897A, overall enclosure weight is now significantly reduced through the use of new cone transducers that are one-third the weight of previous designs, and are capable of higher continuous SPL. JBL's Maximum Output Differential Drive® 2258H transducers with an 800 Watt AES power rating (per transducer) drive the system. These new-generation loudspeakers use a dual-gap neodymium motor with dual voice coils. The resulting 4897A is a bass module providing at least 3 dB more output over competitive, traditional high-power subwoofer designs. The 4897A can be arrayed interchangeably with the HLA Series model 4895 3-way system. These array elements are extremely lightweight. A 16-element array (10 4895 +6 4897A) weighs only about 1,592 kg (3,500 lbs.). Two one-ton chain motor hoists can be used to suspend an Arena-size cluster made up of this quantity of HLA Array Modules.

Product Specifications:

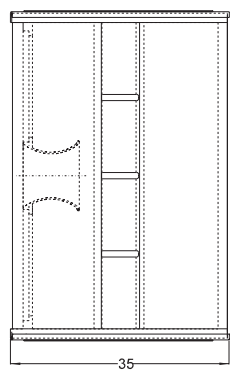
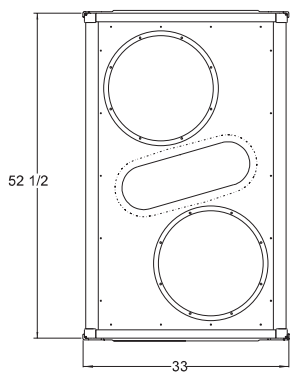
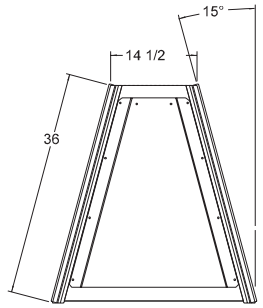
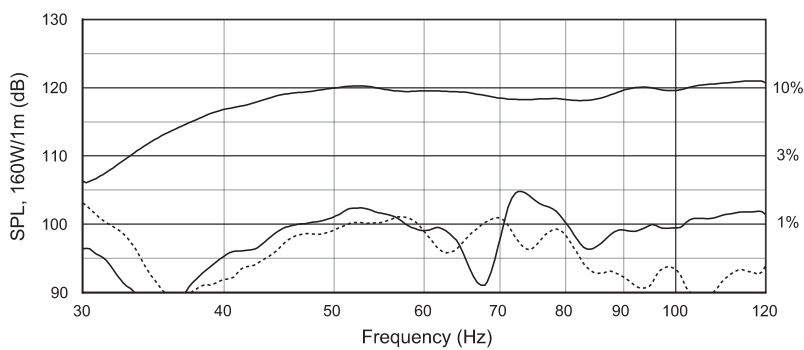
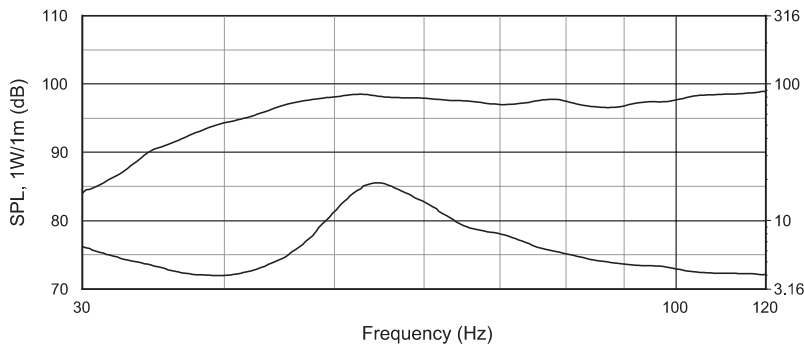
System	
Frequency Response (±3 dB):	34 Hz-150 Hz
Maximum Peak Output:	138 dB @ 1m
Recommended Bandpass:	27 Hz, 120 Hz
Transducers	
Low Frequency:	Two 2258H, 457 mm (18 in) dia., 100 mm (4 in) Differential Drive®
Nominal Impedance:	8 Ohms each Transducer
Input Power Rating (each Transducer):	800 W, AES
Sensitivity:	98 dB, 1 W, @ 1 m (3.3 ft), 35-120 Hz
Enclosure/SpaceFrame™²	
Flying System:	I-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:	91 kg (200 lbs)
Shipping Weight:	98 kg (215 lbs)

¹For 4 units arrayed together.

²U.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.

▶ 4897A Very High Output, Low Frequency Array Element



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A Harman International Company

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