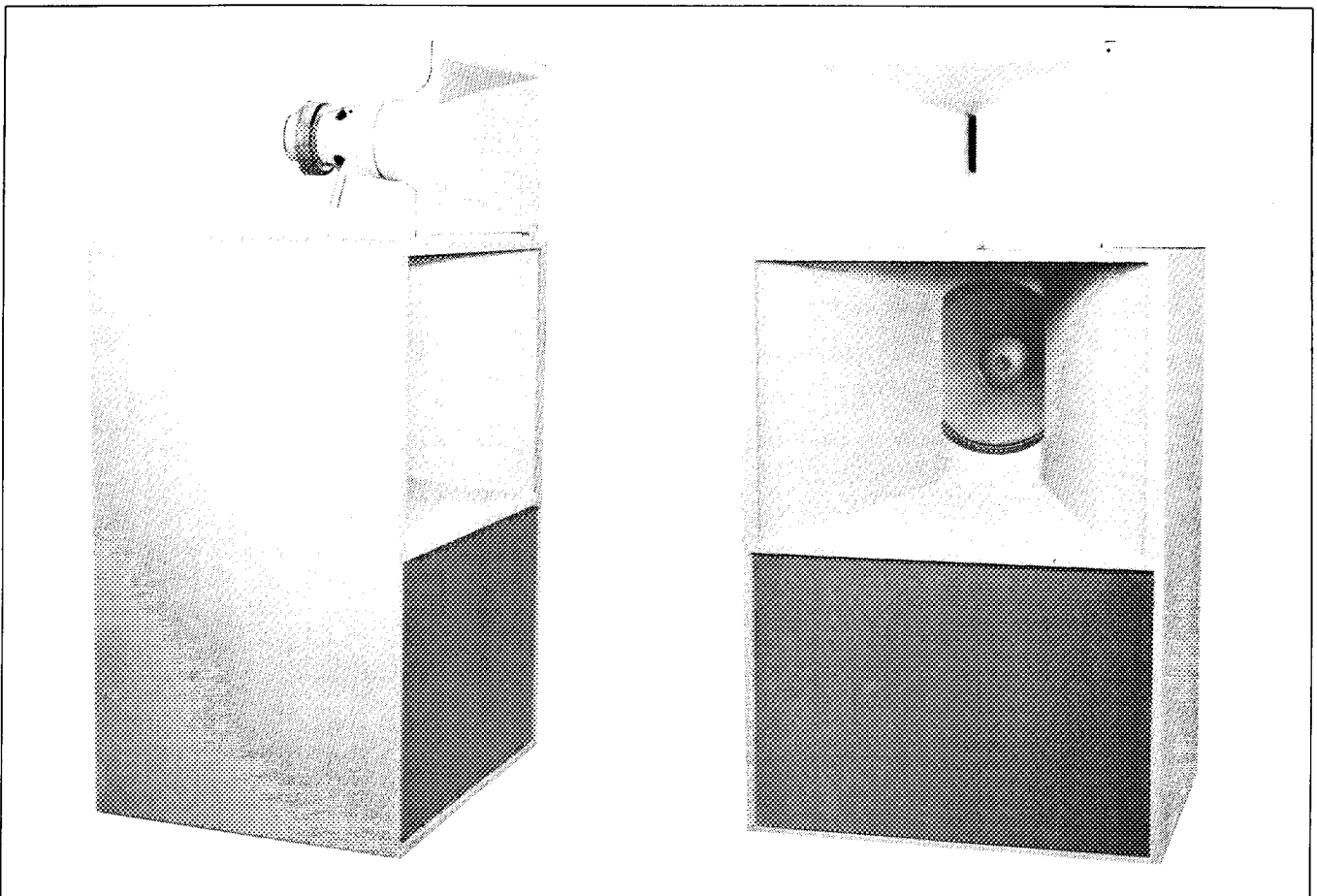




## A7/MR994A LOUDSPEAKER SYSTEM



### DESCRIPTION

The ALTEC LANSING **A7/MR994A** Voice of the Theatre<sup>®</sup> loudspeaker system continues the tradition of wide bandwidth, ultra-high efficiency loudspeakers for motion picture theatres, sound reinforcement, and musical reproduction use. It is the ideal choice where a small, low-cost loudspeaker must project intelligible, natural sounding speech and rich, full music to demanding listeners.

The **A7/MR994A** consists of a high efficiency cone woofer designed for horn operation in a hybrid horn and bass reflex enclosure. From 35 Hz to 120 Hz, the system is bass reflex operated. From 120 Hz to the crossover frequency, it is horn operated through a straight, exponential flare horn. The new 500 Hz crossover (preferred when speech must be projected through music and effects being reproduced at the same time), was designed for an optimum "flat" frequency response, from 35

Hz-20 kHz and also provides a smooth transition at crossover to the high frequency section. The **A7/MR994A** utilizes a 1.0- inch throat compression driver coupled to a Mantaray<sup>®</sup> constant-directivity horn. The high and low frequency voice coils of the **A7/MR994A** are located in the same plane for smooth and accurate control of sound distribution at all frequencies.

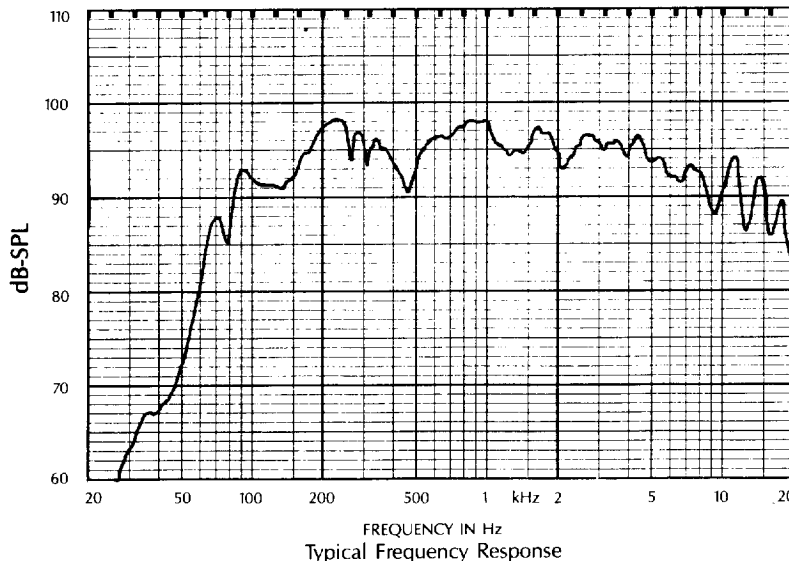
The **A7/MR994A** also incorporates a new horn mounting system which allows easy horn/driver installation. This is accomplished with convenient tee-nut mounting points provided in the top of the low frequency enclosure.

The **A7/MR994A** projects sound in a predictable, wide angle coverage pattern, and provides smooth response and excellent linearity across the entire audio spectrum.

## SPECIFICATIONS

**Frequency Response:** 35 Hz - 20 kHz  
**Pressure Sensitivity:** 102.5 dB-SPL (1 m, 1 W, 35 Hz - 20 kHz)  
**Power Rating:** 75 watts of continuous pink noise, band limited from 35 Hz - 20 kHz  
 150 watts continuous program material  
**Maximum Long-Term Output:** 122.2 dB-SPL (1 m)  
**Impedance:** 8 ohms  
**Distribution Pattern:** 90° horizontal by 40° vertical  
**L.F. Loudspeaker:** Model 515-8G  
**L.F. Recone Kit:** Part number R-515-8  
**H.F. Loudspeaker:** Model MR994A  
**H.F. Driver:** Model 909-8A  
**Replacement H.F. Diaphragm:** Part number 26420  
**Crossover Frequency:** 500 Hz  
**Crossover Network:** Dual full-section LC network, 12 dB-octave attenuation slopes

**Input Connector:** Red and black 5-way binding posts  
**Polarity:** A positive voltage to the red terminal creates a compression wave at the listening position  
**L.F. Enclosure:** Model 828 horn (above 120 Hz) and bass reflex (below 120 Hz) cabinet  
**Enclosure Construction:** Heavily braced 0.75" (1.9 cm) particle board, lined with glass wool  
**Finish:** Theatre gray spatter finish paint  
**Dimensions:** 30" (76.2 cm) wide  
 24" (61 cm) deep  
 54.25" (137.8 cm) high, horn on top  
 42" (106.7 cm) high, horn mounted internally  
**Weight:** 172 lbs (77 kg)



## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker shall be of the two-way type with a 16-inch (40.6-cm) low-frequency loudspeaker mounted in a combination front-loaded exponential horn and rear-loaded bass reflex baffle and a 1.0-inch throat compression driver coupled to a Mantaray® constant-directivity horn. The crossover network used shall be a dual full section type with 12 dB/octave attenuation rates and a crossover frequency of 500 Hz.

The high-frequency section shall be mounted (above) (within) the low-frequency cabinet, which shall be

constructed of heavily braced 0.75-inch (1.9-cm) particle board, damped with glass wool. The loudspeaker shall have a power band width of 35 Hz - 20 kHz, and a sensitivity of 102.5 dB-SPL at 1 meter with 1-watt input.

The power rating will be 75 watts (average) of continuous pink noise, band-limited from 35 Hz - 20 kHz. The impedance shall be 8 ohms.

The loudspeaker shall be the Altec Lansing model A7/MR994A.



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