



**DESCRIPTION**

The ALTEC 414-8C 12-inch Low-Frequency Loudspeaker provides optimum performance in medium-sized enclosures.

A structurally reinforced frame, rigid enough to permit front or rear mounting, supports a heavy permanent magnet providing high flux density. The low-mass voice coil is made from edge-

wound copper ribbon to provide more turns of wire in the voice-coil gap. Cone suspension provides high compliance for accurate reproduction of low frequencies.

An exceptionally fine-crafted speaker for use in moderate-sized sound reinforcement and high-fidelity systems.



## SPECIFICATIONS

<b>Power Rating:</b>	50 watts of continuous pink noise	<b>Magnet:</b>	Alnico, 1.8 pounds, 9,000 gauss flux density
<b>Frequency Response:</b>	Uniform, 30-4000 Hz	<b>Construction—</b>	
<b>Pressure Sensitivity:</b>	96 dB SPL at 4' when installed in ALTEC 614D enclosure and measured on axis with 1 watt input of pink noise band-limited from 500-1500 Hz and calculated to 4' equivalent (Ref.: 0 dB = 0.0002 dyne/cm <sup>2</sup> )	<b>Frame (Basket):</b>	Structurally reinforced die-cast aluminum
<b>Impedance:</b>	8 ohms	<b>Cone:</b>	Molded fiber
<b>Nominal Free-Air Cone Resonance:</b>	30 Hz	<b>Cone Suspension:</b>	High-compliance cloth surround with mechanical resistance
<b>Voice Coil:</b>	3" diameter, edge-wound copper ribbon	<b>Dimensions:</b>	12 $\frac{1}{4}$ " (31.1 cm) diameter 5 $\frac{5}{8}$ " (14.3 cm) depth
		<b>Weight:</b>	15 pounds (6.8 kg)
		<b>Mounting Data—</b>	
		<b>Baffle Opening:</b>	11 $\frac{1}{8}$ " (28.3 cm) front or rear mounting
		<b>Mounting Bolt Centers:</b>	4 bolts equally spaced on 11 $\frac{1}{8}$ " (28.5 cm) diameter circle

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The low-frequency loudspeaker shall meet the following criteria. Frame, structurally reinforced die-cast aluminum, rigid enough to permit front or rear mounting. Voice coil, 3" diameter of edge-wound copper ribbon. Flux density, 9,000 gauss. Magnet weight, 1.8 pounds. Power rating, 50 watts of continuous pink noise. Frequency response, uniform from 30-4000 Hz. Pressure

sensitivity, 96 dB SPL at 4' when measured on axis with 1 watt input of pink noise band-limited from 500-1500 Hz. Impedance, 8 ohms, Nominal free-air cone resonance, 30 Hz. Dimensions, 12 $\frac{1}{4}$ " diameter x 5 $\frac{5}{8}$ " deep. Weight, 15 pounds.

The low-frequency loudspeaker shall be the ALTEC Model 414-8C.



1515 SOUTH MANCHESTER AVENUE, ANAHEIM, CALIFORNIA 92803