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

Power Rating: 50 watts of continuous pink noise

Frequency Response: Uniform, 30-4000 Hz

Pressure Sensitivity: 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/cm²)

Impedance: 8 ohms

Nominal Free-Air Cone Resonance: 30 Hz

Voice Coil: 3” diameter, edge-wound copper ribbon

Magnet: Alnico, 1.8 pounds, 9,000 gauss flux density

Construction—
Frame (Basket): Structurally reinforced die-cast aluminum
Cone: Molded fiber
Cone Suspension: High-compliance cloth surround with mechanical resistance

Dimensions: 12¼” (31.1 cm) diameter 5¾” (14.3 cm) depth

Weight: 15 pounds (6.8 kg)

Mounting Data—Baffle Opening: 11½” (28.3 cm) front or rear mounting
Mounting Bolt Centers: 4 bolts equally spaced on 11¾” (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, 12¼” diameter x 5¾” deep. Weight, 15 pounds.

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