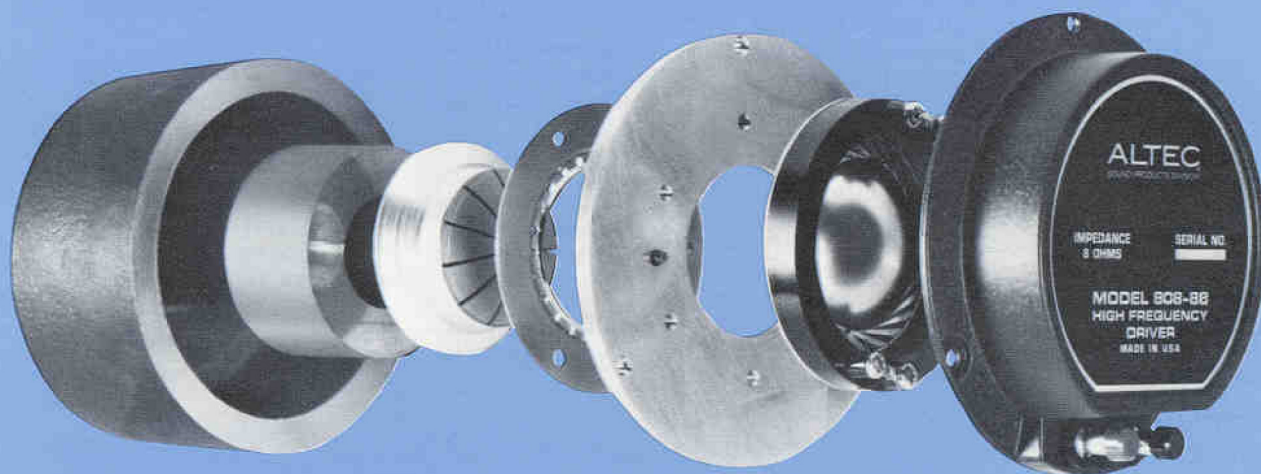


808-8B COMPRESSION DRIVER LOUDSPEAKER



DESCRIPTION

The Altec 808-8B High-Frequency Driver Loudspeaker is designed for professional sound applications requiring outstanding production of sound over a wide frequency range at substantial power levels. Such conditions are fulfilled with high efficiency and uniform response from 500 Hz to more than 20,000 Hz.

The 808-8B furnishes the realistic sound production demanded by theatres and music halls, portable concert sound systems and playback systems when used in conjunction with an Altec 511A (500 Hz), 511B (500 Hz), or 811B (800 Hz) sectoral horn, an appropriate Altec dividing network and Altec professional low-frequency loudspeakers.

Each 808-8B driver uses a voice coil of 1 $\frac{3}{4}$ -inch diameter, edge-wound with aluminum ribbon and coupled to a rugged Symbiotik diaphragm. The entire diaphragm and voice coil assembly of the 808-8B is field replaceable; no special tools are required.

Altec's new Tangerine™ radial phase plug refines the technology of proper phasing, ensuring maximum high-frequency reproduction while maintaining smooth overall response.

The driver is capable of uniform, peak-free reproduction to beyond the range of human hearing.

SPECIFICATIONS

Power Rating:	Up to 30 watts (based on continuous operation with pink noise 500 Hz to 20,000 Hz with the appropriate Altec dividing network and 511A, 511B or 811B sectoral horn)	Magnet Weight:	1.2 lb
Frequency Response:	500 to 20,000 Hz	Driver Dimensions:	4½" (11.4 cm) diameter 3-11/16" (9.4 cm) depth
Pressure Sensitivity:	104 dB SPL with 1-watt input. 121.8 dB SPL with 30-watt input. Measured at 4' on axis from mouth of a 511A, 511B or 811B sectoral horn with pink noise band-limited from 500 to 3000 Hz on 511-type horns, or from 800 to 300 Hz on 811B horns. (Ref.: 0.0002 dyne/cm ²)	Driver Weight:	7 lb (3.2 kg)
Impedance:	8 ohms	Finish:	Black matte
Voice Coil Diameter:	1.75"	Application:	HF driver loudspeaker for wide-range, two-way or three-way systems
Flux Density:	15,250 gauss	Recommended Altec Frequency Dividing Networks:	(Order separately) 501-8A (500 Hz) 801-8A (800 Hz) 809-8A (800 Hz) N1209-8A (1200 Hz)
Magnet Material:	Alnico V	Recommended Altec Sectoral Horns:	(Order separately) 511A (500 Hz) 511B (500 Hz) 811B (800 Hz)
		Autotransformer:	Model 15067 (Order separately)

ARCHITECT AND ENGINEER SPECIFICATIONS

The high-frequency driver loudspeaker shall utilize a Symbiotik diaphragm coupled to a voice coil that shall be edge-wound of aluminum ribbon and that shall be 1¾" in diameter. The voice coil gap shall have a flux density of at least 15,250 gauss, produced by a magnet having a weight of 1.2 pounds. A machined pole piece, attached to the Tangerine™ radial phasing plug, shall have geometrical, exponential acoustic slots that shall provide the proper phase relationship between the sound emanating from the center and edges of the diaphragm and voice coil assembly. The entire diaphragm and voice coil assembly shall incorporate self-centering dowels to ensure proper spacing and alignment of the diaphragm and voice coil assembly and shall be field replaceable without requiring special tools or skills.

The frequency response of the HF driver shall be uniform over the range of (specify one):

500 to 20,000 Hz with the Altec 511A or 511B sectoral horn and N501-8A dividing network.

800 to 20,000 Hz with the Altec 511A, 511B or 811B sectoral horn and N801-8A or N809-8A dividing network.

1200 to 20,000 Hz with the Altec 511A, 511B or 811B sectoral horn and N1209-8A dividing network.

The HF driver loudspeaker shall produce a sound pressure level of at least 104 dB with 1-watt input and 121.8 dB with 30 watts input, measured at a distance of 4 feet on axis from the mouth of a 511A, 511B or 811B sectoral horn with pink noise band-limited from 500 to 3000 Hz on 511-type horns, or from 800 to 3000 Hz on 811B horns. (Ref.: 0.0002 dyne/cm²). Impedance shall be 8 ohms. Weight, 7 pounds. Dimensions, 4½" diameter, 3-11/16" deep. Finish, black matte.

The high-frequency driver loudspeaker shall be ALTEC Model 808-8B.



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