



DESCRIPTION

The ALTEC 150B "Bi-Acoustic" Horn System is a versatile, two-way speaker system housed in a weatherproof, compact frame. It provides excellent reproduction of speech and music for public address applications, indoors or outdoors. The 150B uses a highly efficient transducer with two sound paths emanating from both sides of the diaphragm. Lower frequencies are directed through a long reflex air column while frequencies above 1000 Hz are directed through a straight sectoral horn. The sectoral

horn can be positioned in either a horizontal or vertical plane. The housing is heavy, double-reinforced Fiberglas® which eliminates structural resonance. A 6-foot, heavy-duty lead passes through a rainproof cable strain relief at the rear of the horn to provide input connections. Use of an ALTEC matching transformer (mounted in the ALTEC 21256 Weatherproof Transformer Housing) adapts the horn system for 70V line operation. A mounting bale is supplied with each unit to ease installation.

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SPECIFICATIONS

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| Power Rating: | 50 watts pink noise | Mounting: | Mounting bale supplied |
| Frequency Response: | 150 Hz to 12 kHz | Finish: | High-impact resistant Fiberglas |
| Impedance: | 8 ohms | Dimensions: | 12 ⁵ / ₈ " (32.07 cm) H x 19" (48.26 cm) W x 20" (50.80 cm) D without mounting bale, 21" (53.34 cm) D with mounting bale |
| Pressure Sensitivity: | 103 dB SPL measured at 4' on axis with 1 watt input of pink noise from 500-3000 Hz (Ref.: 0.0002 dyne/cm ²) 120 dB SPL measured at 4' on axis with 50 watts input of pink noise from 500-3000 Hz | Mounting Bale Dimensions: | 2" (5.08 cm) H x 13 ⁵ / ₈ " (34.61 cm) W x 11 ¹ / ₈ " (28.26 cm) D |
| Equivalent EIA Rating: | 56 dB SPL measured at 30' on axis with 1 mW input | Weight: | 15 pounds, 10 ounces (7.09 kg) |
| Distribution Pattern: | Adjustable, 120° horizontal x 90° vertical or 90° horizontal x 120° vertical | Accessories (must be ordered separately): | ALTEC 70V Matching Transformers 21256 Transformer Housing |
| Crossover Frequency: | 1000 Hz | | |

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker horn system shall be of the two-way coaxial type. The low-frequency horn shall be folded and be not less than 58 inches in total length. The high-frequency horn shall be a straight sectoral horn and shall be at least 3.7 inches in length. The loudspeaker horn system shall meet the following performance criteria. Power rating, 50 watts pink noise. Frequency response, 150 Hz to 12 kHz. Impedance, 8 ohms. Pressure sensitivity; 103 dB SPL measured at 4' on axis with 1 watt input of pink noise from 500-3000 Hz (Ref.: 0.0002 dyne/cm²). Distribution pattern, 90° x 120° with distribution controlled by the position of the high-frequency horn. The housing shall be dustproof, moistureproof and weatherproof. Dimensions shall be 12⁵/₈"H x 19"W x 21"D (including mounting bale). Weight shall be 15 pounds, 10 ounces.

The loudspeaker horn system shall be the ALTEC Model 150B.

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