

8325A

SURROUND
FOREGROUND
MUSIC SYSTEM



FEATURES:

40 Hz to 20 kHz Frequency Range

91 dB SPL, 1 W, 1 m (3.3 ft)

Components: 250 mm (10 in) low frequency loudspeaker, 130 mm (5 in) midrange loudspeaker, 25 mm (1 in) high frequency dome radiator

Black vinyl enclosure

The JBL Industrial Series Model 8325A loudspeaker system offers sound contractors and audio system designers a professional quality alternative to conventional "foreground music" speakers. Its wideband response and high reliability make it ideal for use as a theatre surround, and in retail establishments, restaurants, lounges and other commercial applications.

The three-way system features a 250 mm (10 in) low frequency driver for smooth, extended bass response, a 130 mm (5 in) transducer for the critical midrange frequencies, and a 25 mm (1 in) dome tweeter to provide broad, even coverage of the high frequencies. The enclosure is ruggedly constructed of dense stock and covered in black vinyl, with a black cloth grille.

The system offers many of the design features found in our prestigious line of studio monitors and hi-fidelity systems. The dividing network has bypass capacitors wired in parallel with the larger active capacitor values in the circuit to reduce hysteresis effects on the signal. This provides improved resolution of complex transient waveforms. The woofer and midrange cones utilize a laminated high polymer

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composite made by adding a plasticized layer to a pulp base. This results in optimum stiffness, mass, and internal damping, and ensures that the cone behaves more like a true piston. The tweeter dome is laminated with vapor deposited titanium. This yields the structural integrity of a "hard" dome and the damping characteristics of a traditional soft dome. A unique acoustic "contact lens" is an integral part of the tweeter design. It aids in flattening the high frequency response by shadowing the center of the dome of the tweeter.

Built to traditional JBL standards of quality and precision, the loudspeakers are subjected to stringent tests to ensure that the materials and adhesives will stand up to long-term use under adverse conditions.

ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall consist of a 250 mm (10 in) low frequency loudspeaker, 130 mm (5 in) midrange loudspeaker, 25 mm (1 in) dome high frequency driver, and frequency dividing network installed in a ported enclosure. The frame of the low frequency and midrange transducers shall be manufactured of stamped steel, and their magnetic assembly shall utilize a ferrite magnet. The low frequency voice coil shall be 38 mm (1½ in) in diameter and shall be made of round-wound copper.

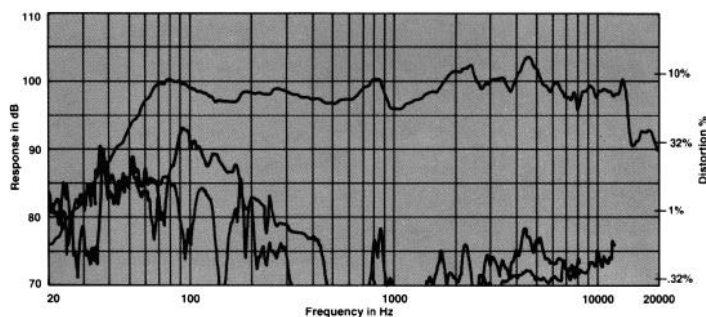
The frequency dividing network shall have cross-over frequencies of 1.1 kHz and 3.4 kHz and shall be of the parallel L-C type. Polypropylene and/or polystyrene bypass capacitors shall be wired in parallel with the network's larger non-polarized electrolytic capacitors to reduce the hysteresis effects on the signal.

Performance specifications of a typical production unit shall be as follows: Measured sensitivity (SPL at 1 m (3.3 ft) on axis with 1 W input, swept 500 Hz-2.5 kHz) shall be at least 91 dB SPL. Usable frequency range shall extend from 40 Hz to 20 kHz. On-axis response, measured at a distance of 2 m (6.6 ft) or more under free-field conditions shall be ± 4 dB from 60 Hz to 14 kHz. Nominal impedance shall be 8 ohms. Rated power capacity shall be at least 80 watts continuous pink noise, based on test signal of filtered random noise conforming to international standard IEC 268-5 (pink noise with 12 dB/octave rolloff below 40 Hz and above 5000 Hz with a peak-to-average ratio of 6 dB), two hours duration.

The enclosure shall be solidly constructed of ¾ inch stock with all joints tightly fitted and glued. Overall dimensions shall be no greater than 660 mm (26 in) by 400 mm (15¾ in) wide by 235 mm (9¼ in) deep. Finish shall be black vinyl with black fabric grille.

The system shall be JBL Industrial Series Model 8235A

Distortion vs. Frequency 10W Distortion Raised to 20 dB



SPECIFICATIONS

SYSTEM:

Frequency Range:	40 Hz to 20 kHz
Frequency Response	60 Hz to 14 kHz
(± 4 dB):	
Power Capacity ¹ :	80 W
Sensitivity ² :	91 dB SPL, 1 W, 1 m (3.3 ft)
Directivity ² : Factor (Q):	4
Index (Di):	6 dB
Nominal Impedance:	8 ohms
Crossover Frequencies:	1.1 kHz and 3.4 kHz
Polarity:	Positive voltage to Red Terminal causes outward low-frequency cone motion.

LOW FREQUENCY LOUDSPEAKER:

Material:	Laminated High Polymer Cone
Nominal Diameter:	250 mm (10 in)

MIDRANGE LOUDSPEAKER:

Material:	Laminated High Polymer Cone
Nominal Diameter:	130 mm (5 in)

HIGH FREQUENCY LOUDSPEAKER:

Material:	Titanium Laminate Dome
Nominal Diameter:	25 mm (1 in)

GENERAL:

Finish:	Black vinyl
Grille Color:	Black
Dimensions:	660 mm x 400 mm x 235 mm deep 26 in x 15¾ in x 9¼ in deep
Net Weight:	17.1 kg (37½ lb)
Shipping Weight:	18.4 kg (40½ lb)

1. Rating based on test signal of filtered random noise conforming to international standard IEC 268-5 (pink noise with 12 dB/octave rolloff below 40 Hz and above 5000 Hz with a peak-to-average ratio of 6 dB), two hours duration.
2. Averaged from 500 Hz to 2.5 kHz

JBL continually engages in research related to product improvement. New materials, production methods, and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

Frequency Response at 1W, 1 meter; Impedance

