



Product Specification Sheet

AS-181

Compact Two-Way Loudspeaker System

General

The AS-181 is an unique “solution oriented” Loudspeaker which bridges sound clarity and fidelity, and unparalleled pattern control with a venue aesthetic designed package that is simple to install. The AS-181 incorporates a rotatable asymmetrical design “high frequency” horn with coverage parameters of 60 degrees horizontal, 60 degrees upper vertical, and 110 degrees in the lower vertical. This exceptionally designed and crafted horn is coupled to a 1” exit HF driver. The horn driver assembly delivers energy where it’s precisely required - to the audience. One 8” transducer matched to the high frequency horn/driver is mounted to the baffle – placing all devices in a similar wave pattern. An internal passive crossover has been engineered to effectively manage the system. The unit has a 16-gauge steel perforated grill, or an optional cloth on a wood frame grill. Mounting points are standard for an OAP ASMB-181 yoke style bracket or industry available rear mounting brackets.

Construction

For structural integrity $\frac{3}{4}$ ” birch veneer plywood is used. Top, bottom, rear, and side panels are reinforced internally with wood bracing, which is both, glued and cross-nailed in place. The unit has finish options of Unfinished, Black Textured Enamel, or White Textured Enamel.

AS-181 Application

The ASMB-181 should be used when a compact high output loudspeaker is needed for sound reinforcement and music playback in fill situations. The AS-181 can be used in Houses of Worship, Live Theater, Lounges, Bars and Restaurants, Nightclubs, Schools, Airports, Spas, Boardrooms, and Convention Centers.

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Architectural Specifications

The loudspeaker shall be of the two-way type. The loudspeaker shall incorporate one 8" woofer capable of handling 200 watts of continuous power. A 1" throat Mylar diaphragm compression driver mounted on a rotatable 60 degree vertical, 60 degree upper horizontal, and 110 degree lower horizontal horn shall reproduce the high frequency. The system will have a frequency range of 80 Hz – 20K Hz +3/-3dB, a pressure sensitivity of 95.0dB at 1 watt power capacity measured at 1 meter and averaged between 125 Hz and 16K Hz. The cabinet constructed of void free 3/4" birch veneer plywood and braced internally. All exposed corners shall be rounded for damage resistance. A 16-gauge carbon steel enameled coated perforated steel grill shall be provided for protection of the transducers or an optional cloth covered wood frame is also available. An optional mounting bracket (ASMB-181) shall be available for mounting the unit to flat surfaces. The loudspeaker shall be the OAP AS-181.

Warranty

OAP Audio AS-181 Model Loudspeakers are guaranteed against failure due to workmanship and materials for a period of five years from the date of purchase and is limited to the original purchaser. If such failure does occur, the unit will be replaced or repaired (at the discretion of OAP Audio) without charge for labor and materials. The unit must be delivered to OAP Audio or one of it's authorized service facilities prepaid. In-warranty items will be returned prepaid. Items not covered by warranty include: finish or appearance items, burned coils, or failures due to operation under other than specified conditions. This warranty also does not include any incidental or consequential damages. Repair by someone other than OAP Audio or an authorized OAP service facility will void this guarantee.

As a research and development corporation, OAP Audio reserves the right to change specifications to improve performance.

Specifications (AS-181)

Impedance	8 ohm nominal
Frequency Response	75 Hz – 20KHz (+/- 3 dB) 65 Hz – 22KHz (+/- 6 dB)
Power Handling	200 Watt Program Power
Sensitivity	95.0 dB @ 1 w / 1 m (avg. between 125 Hz – 16KHz)
Dimensions	12.5" W x 17.5" H x 8" D
Weight	28 lbs.
Low Freq. Device	8" woofer, (1.5" voice coil 2 vented pole piece 30 oz Mag.)
High Freq. Drivers	1" exit w/ 1.75" voice coil diameter, Mylar diaphragm
Horn	Rotatable Asymmetrical Horn: 60 degree vertical; 60 degree upper vertical 110 degree lower vertical.
Mounting Points	1 on each side (for AS-281 Bracket; Mounting points on rear for industry wall mount brackets
Cabinet Finish	Unfinished; White or Black Textured Enamel
Grill	16-Ga. Perf. Steel – White or Black; optional cloth covered wood frame grill available (call factory for details)
Input	2 position Terminal Strip w/ L-Pad, 2-way passive crossover (Red+/Black-)

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