

AM15

Wide-bandwidth weatherised system

architectural

features

- ▶ Wide bandwidth system
- ▶ Textured high-density polyurethane coating both internal and external
- ▶ User rotatable 80° x 50° horn
- ▶ High power output
- ▶ 1.4" (35mm) exit compression driver
- ▶ Five year limited warranty

applications

- ▶ Sports Stadia
- ▶ Arenas
- ▶ Exhibition halls



The AM15 is a 2-way passive enclosure that has been specifically designed for applications such as stadiums and arenas where high SPL and weather resistance are of prime importance. The AM15 has a 400 watt 15" (380mm) direct radiating reflex loaded low frequency transducer with a waterproof cone coupled with a 1.4" (35mm) exit HF compression driver mounted on a rotatable 80° horizontal x 50° vertical constant directivity horn. The enclosure is of a vertical trapezoid design and horizontally formatted to reduce sightline obstruction. The AM15 is finished, both internally and externally, in a textured, high-density polyurethane coating. It is supplied with a protective grille that is heavy galvanised and powder-coated and fitted with an integral water barrier to ensure product reliability over many years.

Connection to the AM15 is via a flying lead secured through a waterproof gland and all internal metalwork is galvanised. The AM15 has twelve 10mm threaded inserts fitted with copper coated and blacked steel bolts, to facilitate easy installation. The AM15 is fitted with a passive crossover network and is also available with an optional 150 watt or 30 watt 100/70 volt line transformer. Tapping adjustments made via spade terminals, which are accessed through a removable rear panel.

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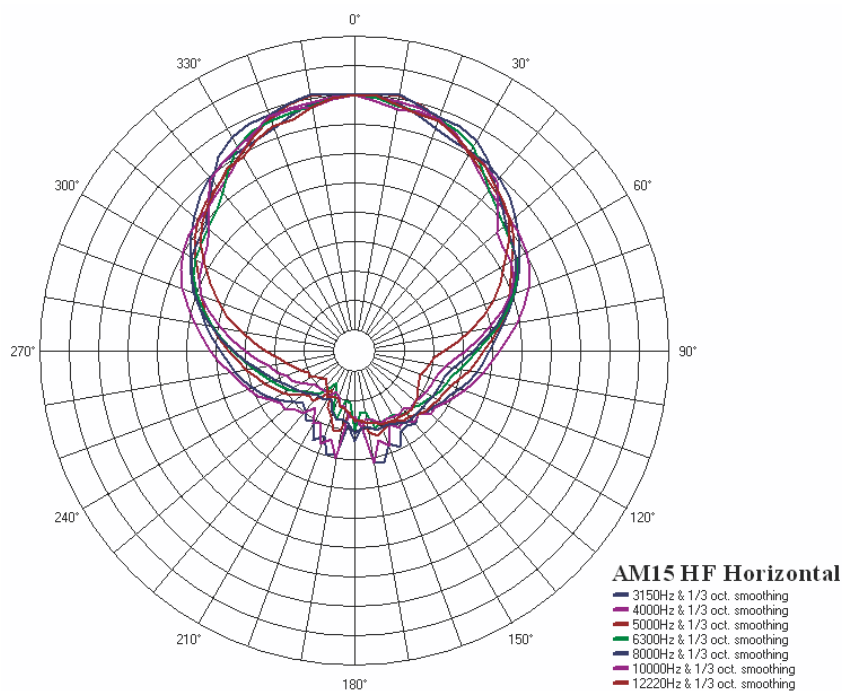
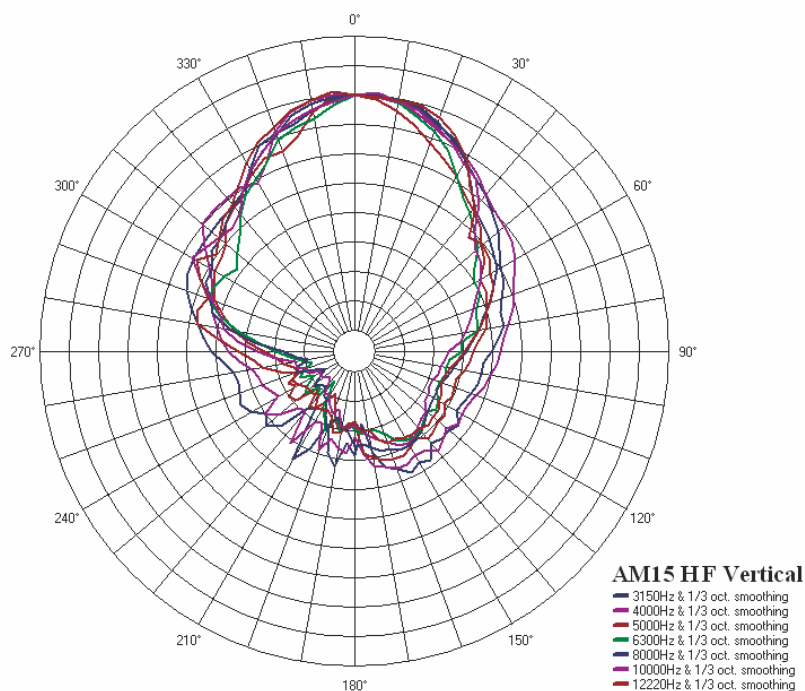


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polar plots

architectural



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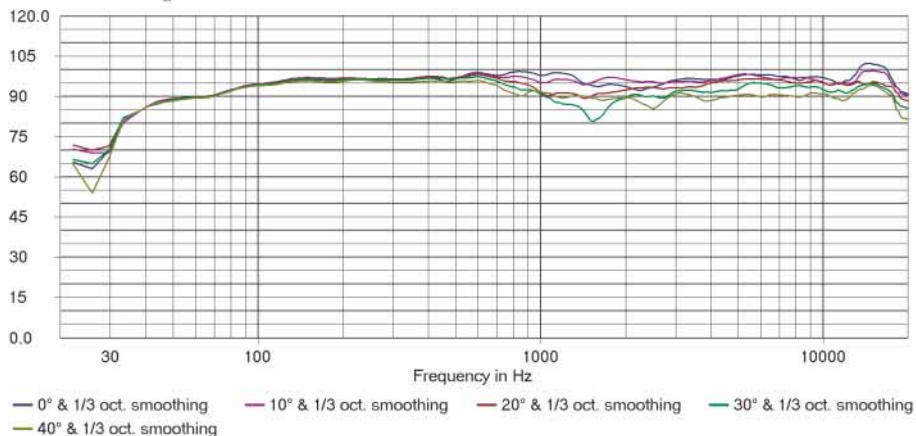
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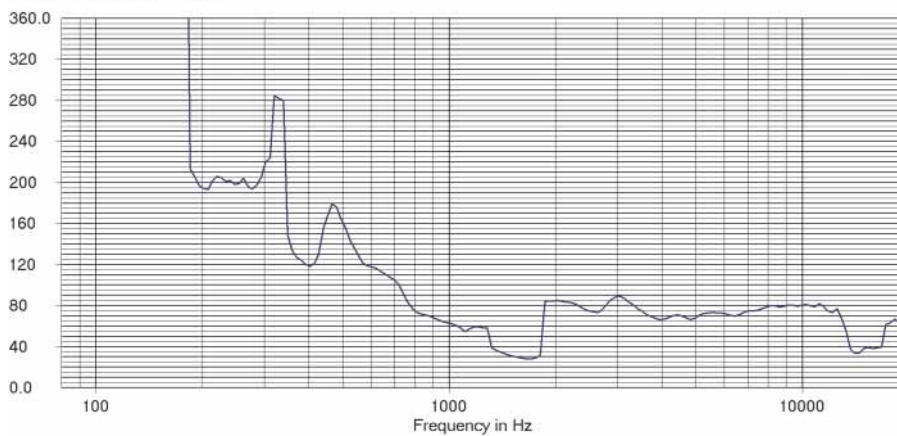
frequency responses

architectural

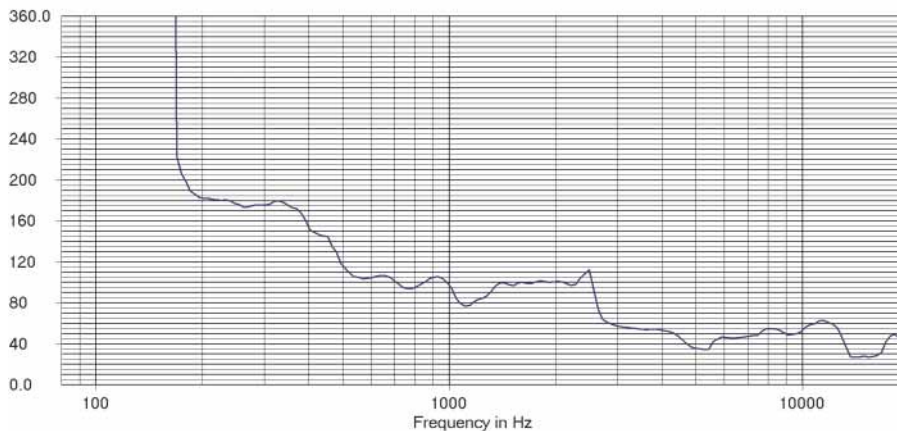
AM15 Horizontal Magnitude in dB SPL/2.83V at 1 meter



AM15 Horizontal Beamwidth



AM15 Vertical Beamwidth



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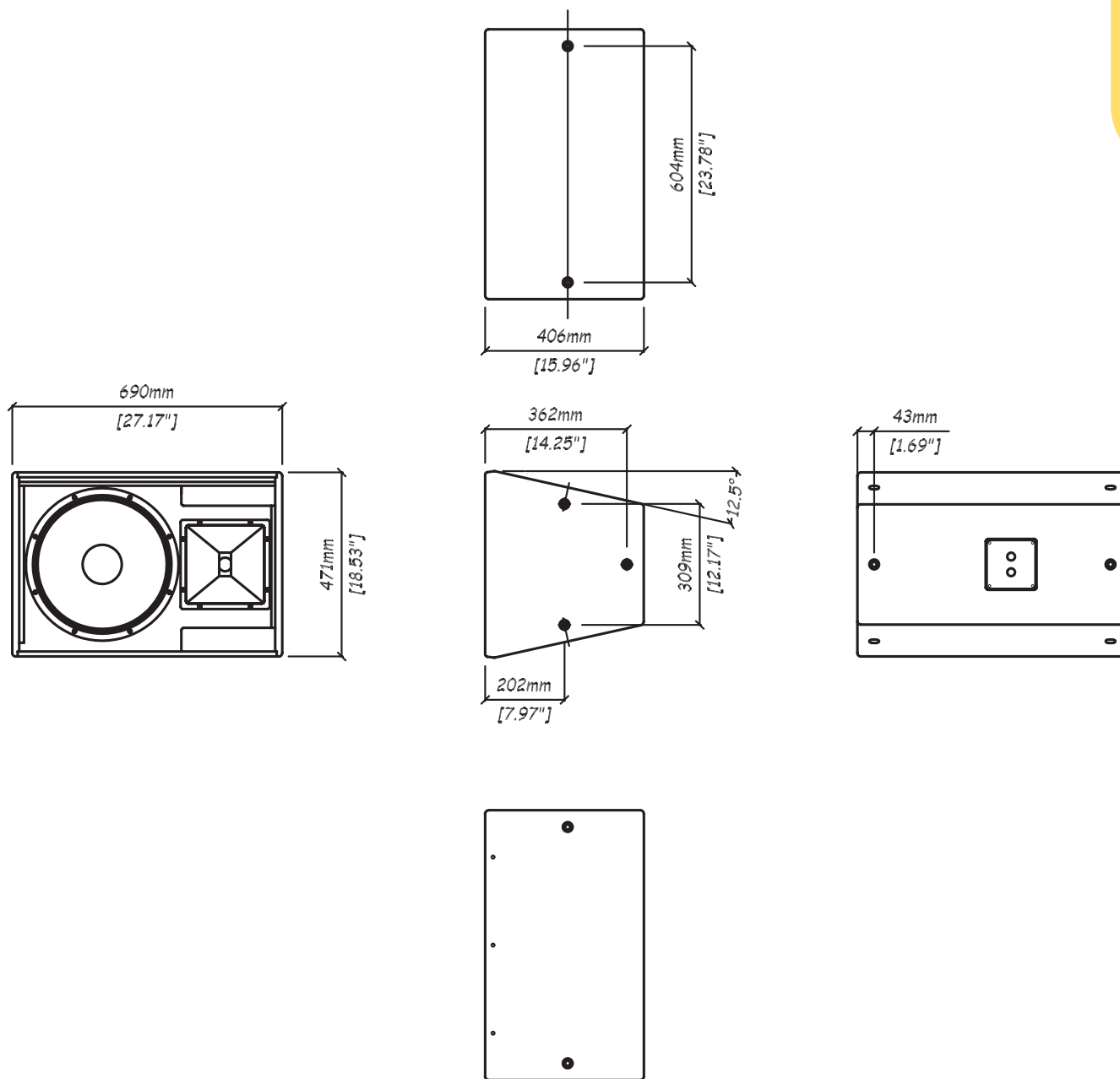


AM15

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overall dimensions

architectural



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technical specifications

TYPE	Compact, two-way passive trapezoid
FREQUENCY RESPONSE (1)	55Hz-18kHz $\pm$ 3dB
DRIVERS	15" (380mm) bass driver with waterproof cone 1.4" (35mm) exit compression driver
RATED POWER (2)	400W AES, 1600W peak
SENSITIVITY (3)	99dB
MAXIMUM SPL (4)	123dB continuous, 129dB peak
NOMINAL IMPEDANCE	8 ohms
DISPERSION (-6dB)	80° horizontal, 50° vertical
CROSSOVER	1.2kHz passive
ENCLOSURE	68 litre (2.4 cu foot) vented Multi laminate birch ply
FINISH	Textured high-density polyurethane coating applied externally and internally
PROTECTIVE GRILLE	18 gauge punched steel, heavy galvanised and polyester-coated, with integral water barrier
CONNECTORS	3m flying lead, with loop-out option
FITTINGS	12 x M10 threaded inserts
OPTIONS	30W or 150W line transformer (100/70V option)
DIMENSIONS	(W) 690mm x (H) 471mm x (D) 406mm (W) 27.2ins x (H) 18.5ins x (D) 16ins
WEIGHT	34.5kg (76lbs) 37kg (81.6lbs) with 150W line transformer fitted

Notes

- (1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half space conditions at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space conditions at 2 metres using band limited pink noise, then referred to 1 metre.

Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

architectural and engineering specifications

The loudspeaker system shall be of the two-way passive type consisting of one 15" (380mm) direct radiating reflex loaded low frequency transducer with a waterproof cone and one 1.4" (35mm) exit HF compression driver mounted on a user rotatable constant directivity horn. The enclosure shall be of a multi-laminate birch ply construction finished both internally and externally with a textured, high-density polyurethane coating. A protective grille shall be fitted consisting of 18 gauge punched steel, heavy galvanised and powder coated, backed with an integral water barrier. Low and high frequency sections shall be integrated by an internal 1.2kHz passive crossover network.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 55Hz-20kHz $\pm$ 3dB.

High frequency dispersion at -6dB points shall be 80°H x 50°V.

Power handling shall be 400W AES, 1600W peak.

Rated impedance shall be 8 ohms.

Maximum SPL measured at 1 metre on axis shall be 123dB continuous, 129dB peak.

Dimensions (W) 690mm x (H) 471mm x (D) 406mm (27.2ins x 18.5ins x 16ins).

Weight 34.5kg (76lbs).

The loudspeaker system shall be the Martin Audio AM15.

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