

AM3

All horn loaded three-way weatherised enclosure

features

- ▶ All-horn three-way system
- ▶ 'Phase-ball' loaded mid-driver
- ▶ Hybrid™ LF section
- ▶ Textured high-density polyurethane coating both internal and external
- ▶ Five year limited warranty

applications

- ▶ Sports Stadia
- ▶ Arenas
- ▶ Exhibition halls



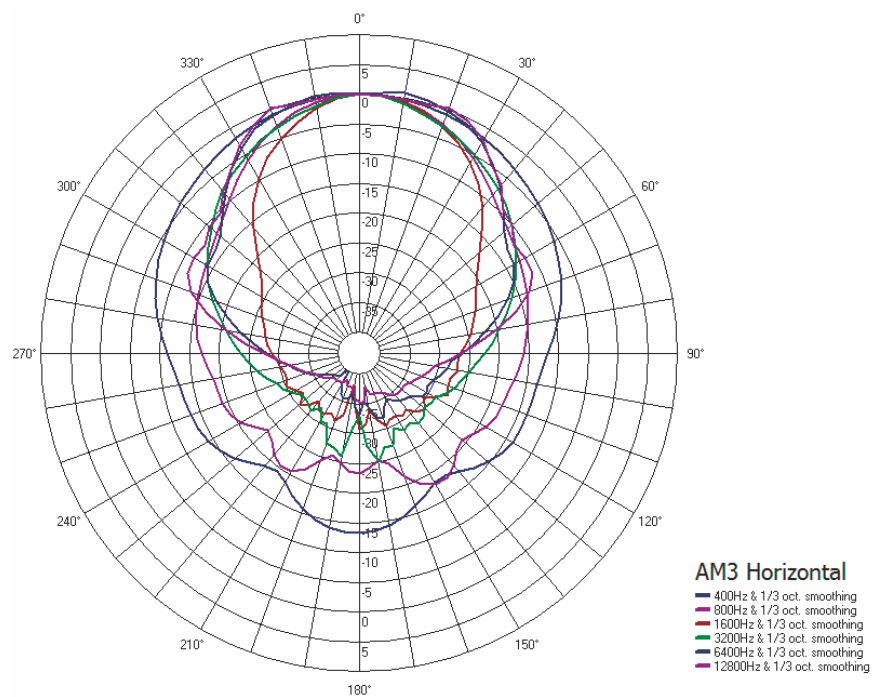
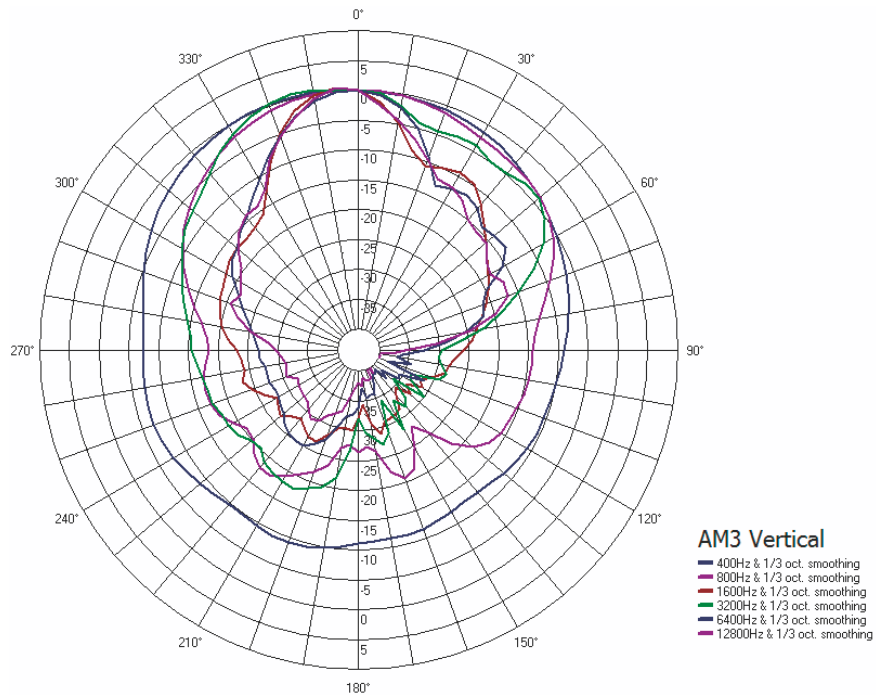
The AM3 is a high performance three-way, fully horn loaded horizontal format enclosure designed for outdoor applications such as sports stadia and arenas. It features a Hybrid™ low frequency section comprising a 15" (380mm) driver that is reflex loaded to extend the LF output to below the natural horn cutoff point. The 10" (250mm) mid-horn features a unique "phase-ball" loading device and is teamed with a 70° x 40° horn-loaded 1" (25mm) exit compression driver for efficient mid-HF performance. The enclosure has a textured, high-density polyurethane coating applied both internally and externally, plus a galvanised steel grille with a water barrier to ensure product reliability over many years.

Connection to the AM3 is via a flying lead secured through a waterproof gland and all internal metalwork is galvanised. The AM3 has twelve 10mm threaded inserts fitted with copper coated and blacked steel bolts, to facilitate easy installation. The AM3 is fitted with a passive mid-HF crossover network and is also available with an optional 150 watt 100/70 volt line transformer. Tapping adjustments may be made via spade terminals, which are accessed through a removable rear panel.

AM3

All horn loaded three-way weatherised enclosure

polar plots



Century Point, Halifax Road, Cressex Business Park,
High Wycombe, Buckinghamshire HP12 3SL, England.
Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669
E-mail: info@martin-audio.com
All information is Copyright © 2006 Martin Audio Ltd.

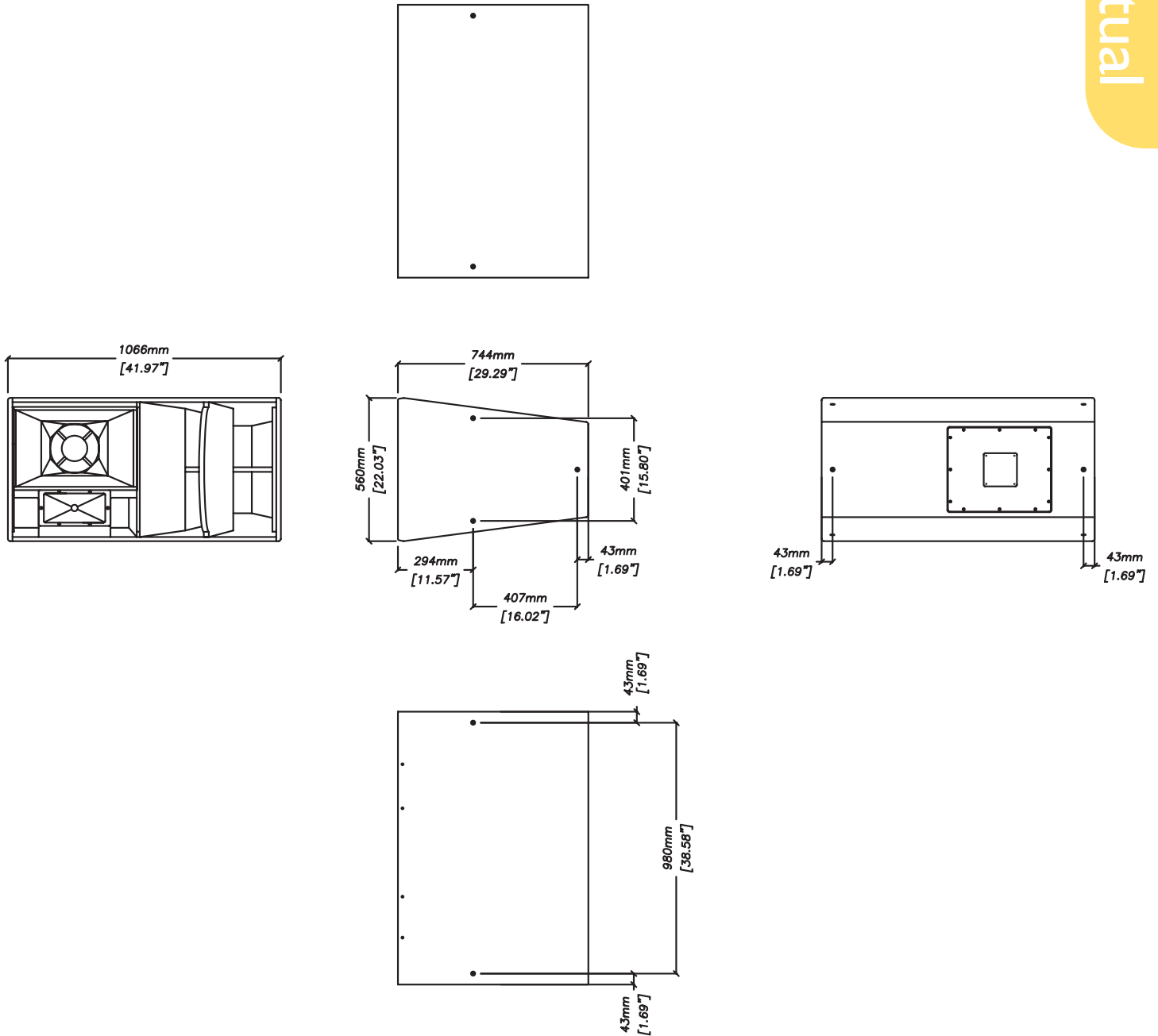


AM3

All horn loaded three-way weatherised enclosure

overall dimensions

architectural



AM3

Century Point, Halifax Road, Cressex Business Park,
High Wycombe, Buckinghamshire HP12 3SL, England.
Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669
E-mail: info@martin-audio.com
All information is Copyright © 2006 Martin Audio Ltd.



AM3

All horn loaded three-way weatherised enclosure

technical specifications

TYPE	Three-way bi-amp trapezoid Hybrid™ fully horn-loaded
FREQUENCY RESPONSE (5)	50Hz-18kHz ± 3dB
DRIVERS	15" (380mm) bass driver with waterproof cone 10" (250mm) mid driver with waterproof cone 1" (25mm) exit HF compression driver
RATED POWER (2)	LF: 500W AES, 2000W peak MF + HF: 300W AES, 1200W peak
SENSITIVITY (6)	LF: 104dB, MF + HF: 104dB
MAXIMUM SPL (7)	130dB continuous, 136dB peak
NOMINAL IMPEDANCE	LF: 8 ohms MF + HF: 8 ohms
DISPERSION (-6dB)	70° horizontal, 40° vertical
CROSSOVER	200Hz active, 2kHz passive
ENCLOSURE	250 litre, multi-laminate birch ply
FINISH	Textured high-density polyurethane coating External and internal
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	150W line transformer(s) (100/70V option)
DIMENSIONS	(W) 1066mm x (H) 560mm x (D) 744mm (W) 42ins x (H) 22ins x (D) 29.3ins
WEIGHT	81kg (178.5lbs) 86kg (190lbs) with line transformers 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 at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4 π) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4 π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4 π) space 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 trapezoidal three-way bi-amp Hybrid™ fully horn-loaded type, horizontally formatted and consisting of one 15" (380mm) horn and reflex loaded low frequency transducer with a waterproof cone, one 10" (250mm) horn loaded mid frequency transducer with a waterproof cone and a "phase-ball" loading device, and one 1" (25mm) exit HF compression driver mounted on a 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 polyester coated, backed with an integral water barrier. The enclosure shall be fitted with threaded inserts to simplify mounting. The loudspeaker shall be operated with a separate electronic controller providing a 200Hz crossover between low and mid/high frequency sections. The mid and high frequency sections shall be integrated by an internal 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 50Hz-18kHz ± 3dB.

High frequency dispersion at -6dB points shall be 70° H x 40° V.

Power handling shall be 500W AES, 2000W peak LF, 300W AES, 1200W peak MF + HF.

Rated impedance shall be 8 ohms LF, 8 ohms MF + HF. Maximum SPL measured at 1 metre on axis shall be 130dB continuous, 136dB peak.

Dimensions (W) 1066mm x (H) 560mm x (D) 744mm (42ins x 22ins x 29.3ins).

Weight 81kg (178.5lbs).

The loudspeaker system shall be the Martin Audio AM3.

Century Point, Halifax Road, Cressex Business Park,
High Wycombe, Buckinghamshire HP12 3SL, England.
Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669
E-mail: info@martin-audio.com
All information is Copyright © 2006 Martin Audio Ltd.

