

EMI86

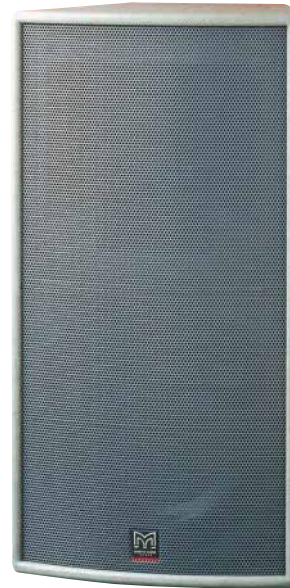
Compact three-way bi-amp loudspeaker system

features

- ▶ Compact three-way bi-amp loudspeaker system
- ▶ Very high SPL capability
- ▶ Rotatable baffle
- ▶ Multiple threaded inserts for ease of installation

applications

- ▶ Music systems for clubs and bars
- ▶ Theatres
- ▶ AV presentations
- ▶ Conference centres



architectural

This is a very high power, three-way, bi-amplified loudspeaker system. Features include an extremely efficient 15" cone driver housed in a compact reflex enclosure. A dedicated high-mid horn with 6.5" cone driver and unique toroidal phase-plug device covers the band from 650Hz-3.3kHz. High frequencies are reproduced by a 1" exit HF compression driver. Both high-mid and high frequency horn sections are designed to have matched, constant Q, 65° horizontal dispersion patterns.

Mounted on a rotatable baffle, the mid/HF horn is adjustable for vertical or horizontal configuration. Flying inserts provide maximum flexibility for hanging or installation in either plane.

The EMI86 full range enclosure is also designed to be used in conjunction with sub-bass cabinets and the dedicated EMX2A controller.

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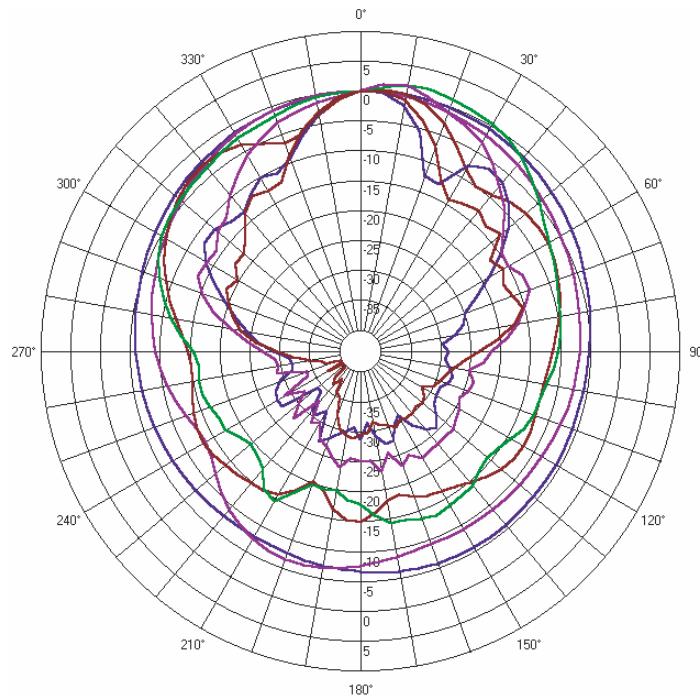


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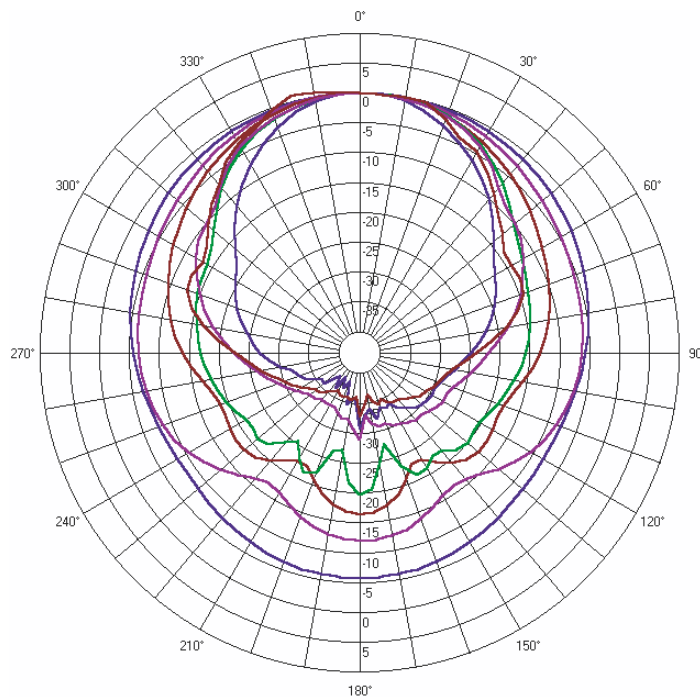
polar plots

architectural



EMI 86 Vertical

- 200Hz & 1/3 oct. smoothing
- 400Hz & 1/3 oct. smoothing
- 800Hz & 1/3 oct. smoothing
- 1600Hz & 1/3 oct. smoothing
- 3200Hz & 1/3 oct. smoothing
- 6400Hz & 1/3 oct. smoothing
- 12800Hz & 1/3 oct. smoothing



EMI 86 Horizontal

- 200Hz & 1/3 oct. smoothing
- 400Hz & 1/3 oct. smoothing
- 800Hz & 1/3 oct. smoothing
- 1600Hz & 1/3 oct. smoothing
- 3200Hz & 1/3 oct. smoothing
- 6400Hz & 1/3 oct. smoothing
- 12800Hz & 1/3 oct. smoothing

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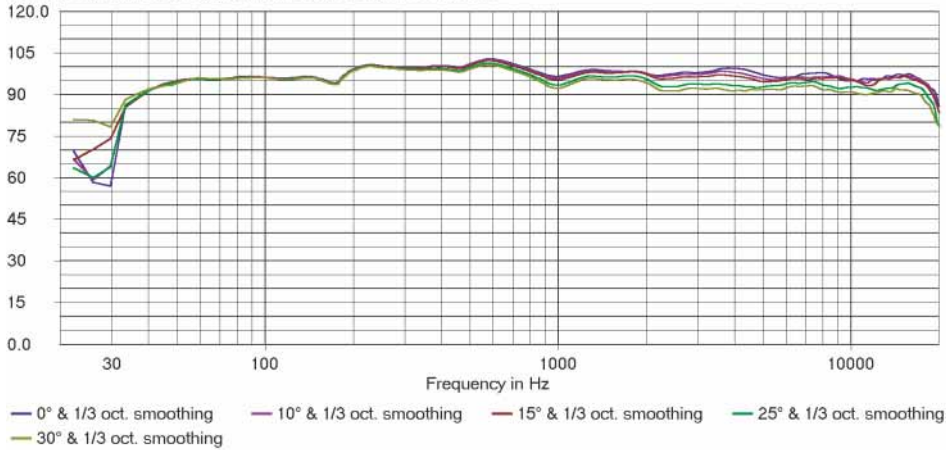
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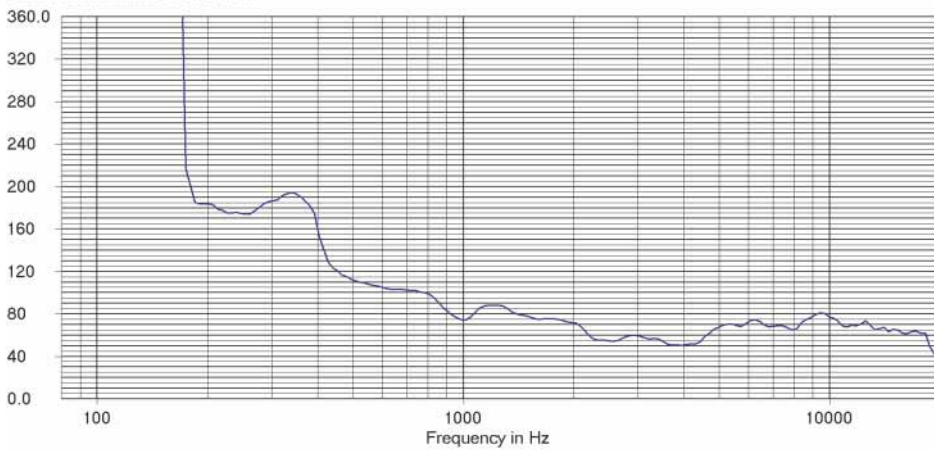
frequency responses

architectural

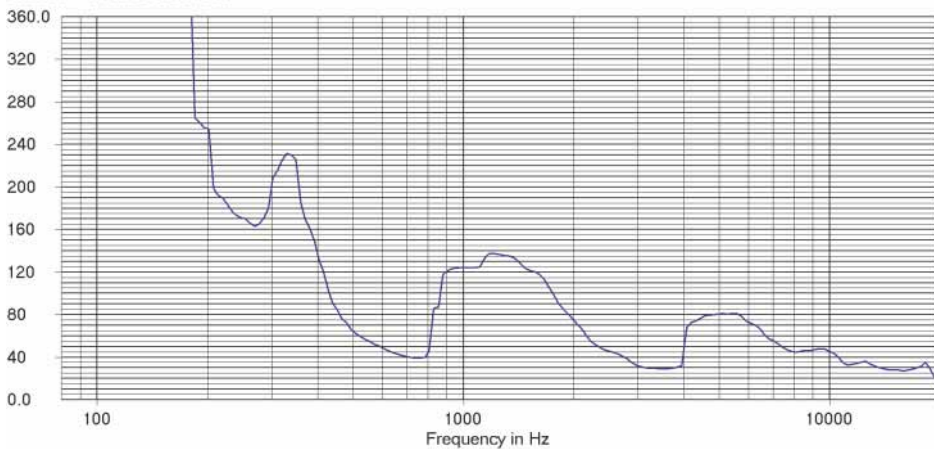
EMI86 Horizontal Magnitude in dB SPL/2.83V at 1 meter



EMI86 Horizontal Beamwidth



EMI86 Vertical Beamwidth



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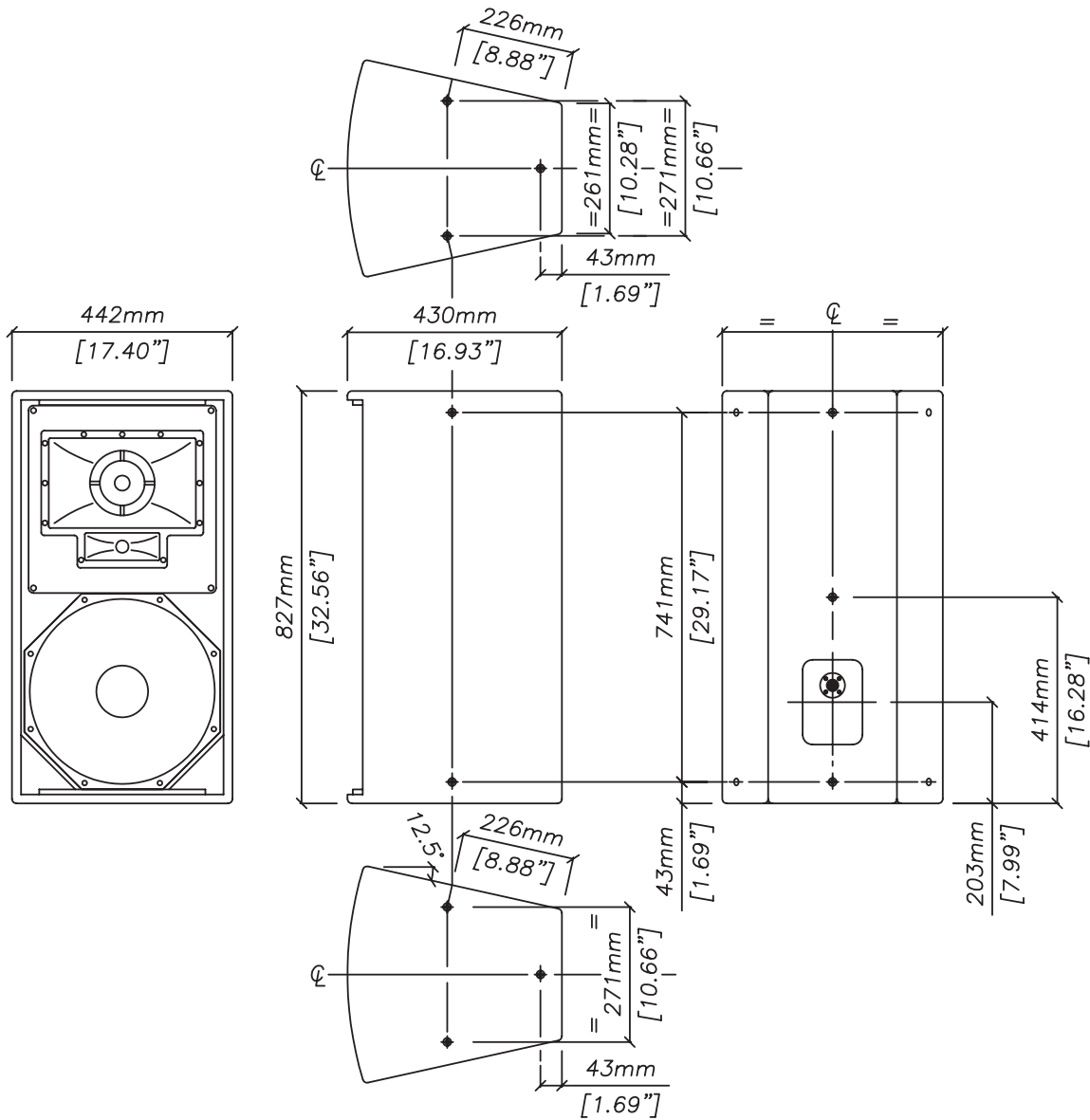


EMI86

Compact three-way bi-amp loudspeaker system

overall dimensions

architectural



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EMI 86

Compact three-way bi-amp loudspeaker system

technical specifications

| | |
|------------------------|---|
| TYPE | Compact, three-way trapezoid |
| FREQUENCY RESPONSE (1) | 55Hz-18kHz \pm 3dB |
| DRIVERS | 15" (380mm) bass driver 6.5" (165mm) mid driver 1" (25mm) exit compression driver |
| RATED POWER (2) | LF: 350W AES, 1400W peak MF + HF: 150W AES, 600W peak |
| RECOMMENDED AMPLIFIER | LF: 400-550W into 4 ohms MF + HF: 200-550W into 4 ohms |
| SENSITIVITY (3) | LF: 100dB MF + HF: 104dB |
| MAXIMUM SPL (4) | 124dB continuous, 130dB peak |
| NOMINAL IMPEDANCE | LF: 8 ohms MF + HF: 16 ohms |
| DISPERSION (-6dB) | 65° horizontal, 40° vertical |
| CROSSOVER | 650Hz active, 3.3kHz passive |
| ENCLOSURE | 80 litre, vented |
| FINISH | Textured green paint |
| PROTECTIVE GRILLE | Grey perforated steel |
| CONNECTORS | 1 x Neutrik NL4 |
| FITTINGS | 12 x M8 inserts |
| DIMENSIONS | (W) 442mm x (H) 827mm x (D) 430mm (W) 17.4ins x (H) 32.5ins x (D) 16.9ins |
| WEIGHT | 36kg (79lbs) |

accessories

| | |
|---------|-------------------------|
| HTKCT05 | 8mm Shouldered Eye Bolt |
|---------|-------------------------|

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 three-way type consisting of one 15" (380mm) direct radiating reflex loaded low frequency transducer, one 6.5" horn loaded mid frequency transducer fitted with a toroidal phase-plug and one 1" (25mm) exit horn loaded HF compression driver. The mid and HF horns shall exhibit uniform 65° horizontal coverage patterns and be mounted in a rotatable baffle to enable horizontal or vertical use. All components shall be mounted in a trapezoidal enclosure fitted with threaded inserts for wall and ceiling mounting. The loudspeaker system shall be bi-amplified and shall operate with a separate dedicated electronic controller. Mid and high frequency sections shall be integrated by an internal 3.3kHz 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-18kHz \pm 3dB.

Mid/High frequency dispersion at -6dB points shall be 65° H x 40° V.

Power handling shall be 350W AES, 1400W peak LF, 150W AES, 600W peak MF/HF.

Rated impedance shall be 8 ohms LF, 16 ohms MF/HF. Maximum SPL measured at 1 metre on axis shall be 124dB continuous, 130dB peak.

Dimensions (W) 442mm x (H) 827mm x (D) 430mm (17.4ins x 32.5ins x 16.9ins).

Weight 36kg (79lbs).

The loudspeaker system shall be the Martin Audio EMI86.

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