The AM2 is a high performance two-way, fully horn loaded mid-high pack enclosure designed for outdoor applications such as sports stadia and arenas. It features an innovative Hybrid™ 10" (250mm) mid-range horn with a unique "phase-ball" loading device. This maintains the 70° x 40° directivity pattern of the mid horn up to crossover, where a horn-loaded 1" (25mm) exit compression driver takes over 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 AM2 is via a flying lead secured through a waterproof gland and all internal metalwork is galvanised. The AM2 has twelve 10mm threaded inserts fitted with copper coated and blacked steel bolts, to facilitate easy installation. The AM2 is fitted with a passive crossover network and is also available with an optional 150 watt or 50 watt 100/70 volt line transformer. Tapping adjustments may be made via spade terminals, which are accessed through a removable rear panel.
AM2
Two-way mid-high weatherised enclosure

H2 Vertical
- 200Hz ± 1/3oct smoothing
- 400Hz ± 1/3oct smoothing
- 800Hz ± 1/3oct smoothing
- 1200Hz ± 1/3oct smoothing
- 2000Hz ± 1/3oct smoothing
- 3200Hz ± 1/3oct smoothing
- 6400Hz ± 1/3oct smoothing
- 12800Hz ± 1/3oct smoothing

AM2 Horizontal
- 200Hz ± 1/3oct smoothing
- 400Hz ± 1/3oct smoothing
- 800Hz ± 1/3oct smoothing
- 1200Hz ± 1/3oct smoothing
- 2000Hz ± 1/3oct smoothing
- 3200Hz ± 1/3oct smoothing
- 6400Hz ± 1/3oct smoothing
- 12800Hz ± 1/3oct smoothing
AM2
Two-way mid-high weatherised enclosure

overall dimensions

Architectural

$571 \text{mm (22.48")}$

$460 \text{mm (18.12")}$

$43 \text{mm (1.69")}$

$560 \text{mm (22.07")}$

$420 \text{mm (16.72")}$

$210 \text{mm (8.28")}$

$207 \text{mm (8.15")}$

$45 \text{mm (1.69")}$

$485 \text{mm (19.09")}$

$43 \text{mm (1.69")}$
## Technical Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Two-way passive trapezoid Hybrid™ fully horn-loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response</td>
<td>150Hz-18kHz ±3dB</td>
</tr>
<tr>
<td>Drivers</td>
<td>10&quot; (250mm) mid driver with waterproof cone, 1&quot; (25mm) exit HF compression driver</td>
</tr>
<tr>
<td>Rated Power</td>
<td>300W AES, 1200W peak</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>104dB</td>
</tr>
<tr>
<td>Maximum SPL</td>
<td>127dB continuous, 133dB peak</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Dispersion (-6dB)</td>
<td>70º horizontal, 40º vertical</td>
</tr>
<tr>
<td>Crossover</td>
<td>2kHz passive</td>
</tr>
<tr>
<td>Finish</td>
<td>Textured high-density polyurethane coating</td>
</tr>
<tr>
<td>Protective Grille</td>
<td>18 gauge punched steel, heavy galvanised and polyester-coated, with integral water barrier</td>
</tr>
<tr>
<td>Connectors</td>
<td>3m flying lead, with loop-out option</td>
</tr>
<tr>
<td>Fittings</td>
<td>12 x M10 threaded inserts</td>
</tr>
<tr>
<td>Options</td>
<td>150W line transformer (100/70V option)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(W) 560mm x (H) 571mm x (D) 460mm</td>
</tr>
<tr>
<td>Weight</td>
<td>38.5kg (85lbs)</td>
</tr>
</tbody>
</table>

**Notes**

1. Measured on-axis in half space at 2 metres, then referred to 1 metre.
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 (4π) space at 2 metres, then referred to 1 metre.
6. Measured in open (4π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
7. Measured in open (4π) space at 2 metres using band limited pink noise, then referred to 1 metre.

### Architectural and Engineering Specifications

The loudspeaker system shall be of the trapezoidal two-way, passive, Hybrid™ fully horn-loaded type, consisting of one 10" (250mm) horn and reflex 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 facilitate easy mounting. The mid and high frequency sections shall be integrated by an internal 2kHz 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 150Hz-18kHz ±3dB.
- High frequency dispersion at -6dB points shall be 70ºH x 40ºV.
- Power handling shall be 300W AES, 1200W peak.
- Rated impedance shall be 8 ohms.
- Maximum SPL measured at 1 metre on axis shall be 127dB continuous, 133dB peak.
- Dimensions (W) 560mm x (H) 571mm x (D) 460mm
- Weight 38.5kg (85lbs)

The loudspeaker system shall be the Martin Audio AM2.