



ENGINEERED BY



Architech Series

AT-12

2-Way, 12"
Fixed installation System

Description:

The AT-12 Unit is a compact system, able to reproduce musical and speech programmes with an unusual fidelity and extended bass response, when compared with similar size cabinets.

It is structurally constructed from a single piece of pre-formed, rounded multi-ply shell, without any joint in its main body. This shape offers a clear reproduction of music without unwanted vibrations and acoustic colouring found in other materials.

It has been designed as a two-way passive system, in a "Uni-Block" concept, performing flawlessly as a high level music system, as well as a speech reproduction system in an emergency paging installation.

It is equipped with a Wide Directivity High-Frequencies Horn that gives the cabinet a brilliant and pleasant character, achieving a balanced response throughout its wide coverage field.

The AT-12 can be used on its own without any electronics processing, but has been conceived right from the start and following the current tendencies, to obtain its full musical expression capabilities, through the use of a specific signal processor. Thus, the AT-12 is able to reproduce the deepest bass with utmost purity, expression and reliability.

When coupled to one of the Subs available in the Series (ATS-15), the AT-12 can be used as a small sound reinforcement system, able to generate punchy, clean and vigorous sound pressure levels.

Characteristics:

- "Uni-Block" unit designed for use in High Level indoor Installations.
- Wide Vertical and Horizontal coverage High-Frequencies Horn for perfect dispersion in the coverage area.
- Passive filter which optimises the critical voice zone response.
- Steel front grille with acoustic foam.
- Installation ready with inserted nuts on the back panel.
- The specific electronic controller guarantees: linear performance, powerful bass response, reliability.

Applications:

- Fixed Installation in Bars, Lounges, Shops, Theatres, Conference Rooms, etc.
- Medium field monitoring
- When used together with the series' Sub-woofers ATS-15, the system becomes a performing set-up for small events.



Construction detail



Specifications and Characteristics

Frequency Range (Hz) ¹	-10dB 40Hz - 20KHz
Frequency Response (Hz) ¹	± 3dB 68Hz - 18KHz
Nominal Impedance	8 Ohm
Power Rating (RMS) ²	200W
Program ²	400W
Peak ²	800W
Horizontal Coverage (-6dB)	90°
Vertical Coverage (-6dB)	40°
Sensitivity (dB/1w@1m.)	93dB SPL
SPL Max Peak (dB SPL @ 1m.) ³	131dB SPL
Connectors	Pressure connector
Recommended Signal Processor	RAM Audio LMS221 Processor
Recommended Power Amplifier	300W / 600W @ 8 Ohm
Recommended Sub-woofer	SPACE ATS-15
Enclosure	Vertical "Uni-block", single body, 15mm thick cross ply construction, tongue and groove assembly throughout. Bi-component epoxy finish.
Protection Grille	One mm Laminated Steel with textured epoxy finish. Acoustic foam.
Dimensions (H x W x D)	660 x 360 x 404 mm
Net Weight	15,2 Kg
Installation System	"Varifix" ready with inserted nuts in the back panel.

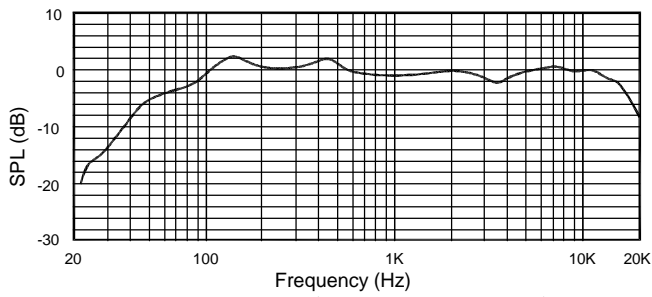
¹ Specifications in half space, (with processor)

² With filtered Pink Noise 6dB crest-factor

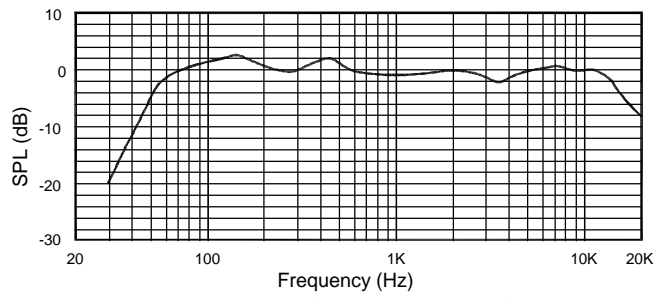
³ Calculated from the Sensitivity and Power Data

AT-12

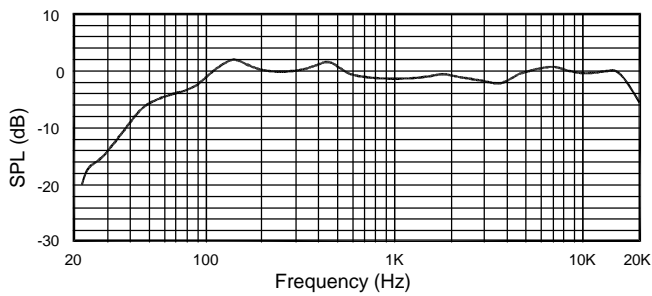
2-Way, 12", Fixed installation System



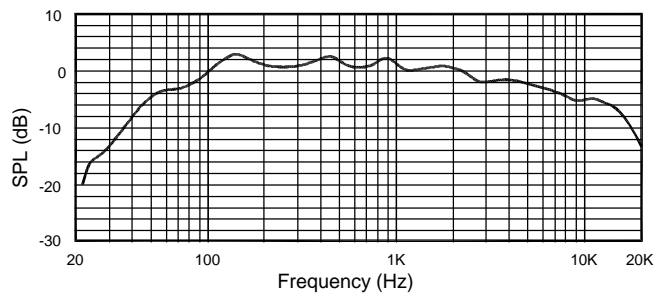
Normalized Response (without Processing)
1/3 Oct. Avg.



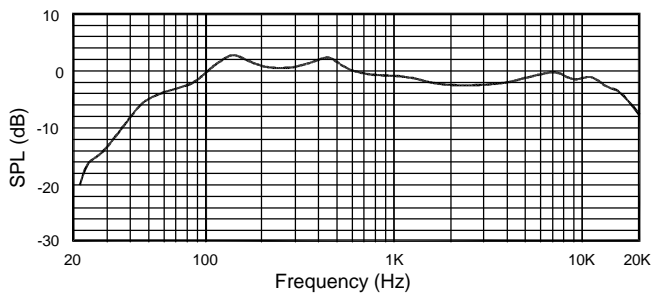
Normalized Response (with Processing)
1/3 Oct. Avg.



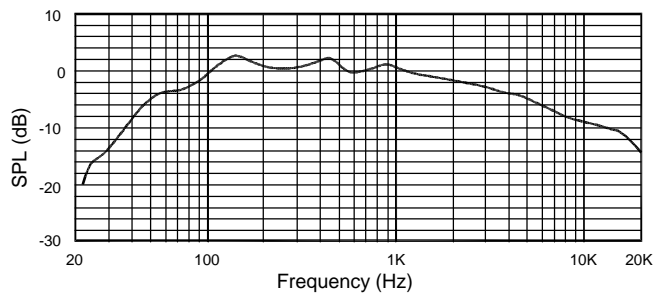
Normalized Response $\pm 15^\circ$ HORIZONTAL
1/3 Oct. Avg.



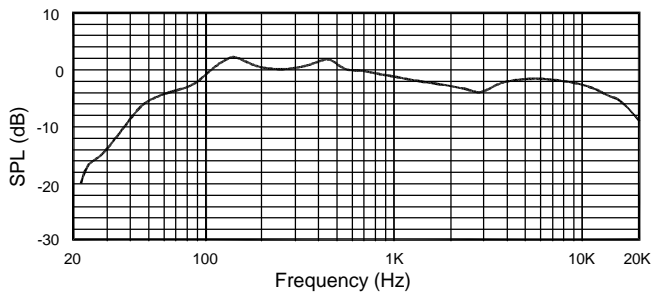
Normalized Response $\pm 15^\circ$ VERTICAL
1/3 Oct. Avg.



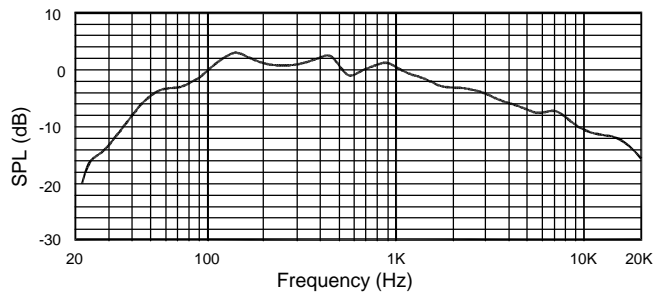
Normalized Response $\pm 30^\circ$ HORIZONTAL
1/3 Oct. Avg.



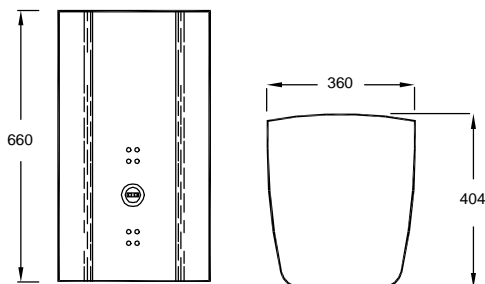
Normalized Response $\pm 30^\circ$ VERTICAL
1/3 Oct. Avg.



Normalized Response $\pm 45^\circ$ HORIZONTAL
1/3 Oct. Avg.



Normalized Response $\pm 45^\circ$ VERTICAL
1/3 Oct. Avg.



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