

MOBIUS7iBMT-EN54

HIGH PERFORMANCE HI-Z VOICE EVACUATION PLASTER-OVER
LOUDSPEAKER WITH INTEGRATED BACKBOX

DATASHEET Rev. 1.2 | 20-10-2022 | E&OE



AMINA
IMMERSIVE INVISIBLE SOUND

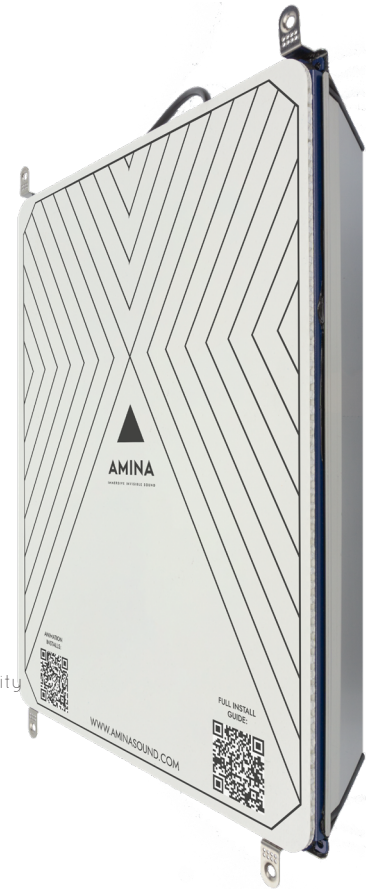
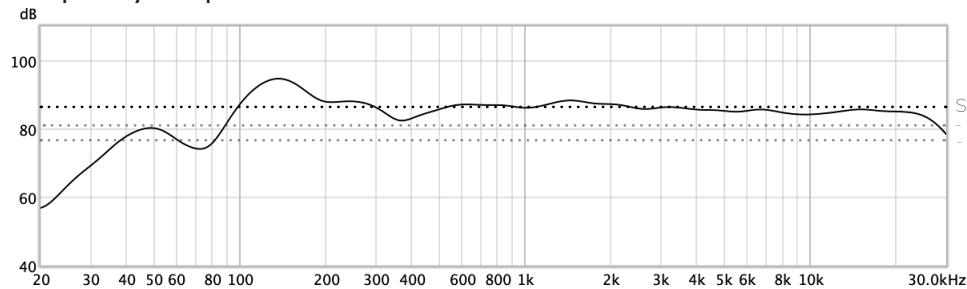
Product Description

The Mobius7iBMT-EN54 has been developed and certified for use in high-impedance fire evacuation systems. Based on the award-winning Mobius7i and using the same patented technologies including Optidrive, Opti-damping and Reduced Resonance Exciter technology, the Mobius7iBMT-EN54 features the same hi-fidelity, room-filling and dynamic sound that Amina is known for. The Mobius7iBMT-EN54 is a sealed unit with a new acoustically tuned and fully integrated backbox design and features a new front-mounting system that automatically aligns the loudspeaker to the perfect depth, making a one-person installation easier than ever before. Designed to be completely covered by 2mm of plaster or other material, the Mobius7iBMT-EN54 is completely invisible in application.

Example Applications

Mid power, full-range high-impedance commercial and residential applications where an EN-54 (fire evacuation) rating is required. Designed for dual use - providing high-quality music and media playback as well as voice evacuation duties in a properly configured audio system - an unparalleled solution for projects looking to avoid the visual clutter of multiple loudspeaker systems.

Frequency Response



Specifications

Mobius7iBMT-EN54

Certification	EN54-24:2008
Transformer taps (100V)	10W / 20W / 40W
Input impedance	10W: 1000Ω / 20W: 500Ω / 40W: 250Ω
Frequency range (-10dB)	40Hz - 29kHz
Sensitivity (@1m/2.83Vrms)	87dB SPL 1m/2.83Vrms (with 2mm plaster skim)
Max SPL (@1m/2.83Vrms)	10W: 97dB SPL / 20W: 100dB SPL / 40W: 103dB SPL
Dispersion angle (HxV)	175° x 175° @ 500Hz / 115° x 180° @ 1kHz / 180° x 180° @ 2kHz / 180° x 180° @ 4kHz
Rated noise voltage / power	100V / 40W
Electrical connection	WAGO lever lock (up to 12 AWG)
IP protection grade	IP21C
Cabinet material	Steel and multilayer diaphragm material
Dimensions (not including mounting tabs)	452mm x 348mm x 78mm (17 13/16" x 13 11/16" x 3 1/16")
Product weight	4.1Kg (9lbs 1oz)
Fixing requirements	All fixings provided
Manufacturer limited warranty	10 years

Amina Technologies Limited

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DSP settings*

Freq.	125Hz	160Hz	200Hz	315Hz	400Hz	630Hz	1kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz
Gain	0	0	0	0	0	0	0	0	0	0	0	0

*DSP settings are defined as a starting point - actual settings will highly depend on instalation and positioning of the loudspeaker.

Important Notes

Amina's EN54-24:2008 rated loudspeakers have been certified for use in voice evacuation systems. The EN54-24:2008 standard concerns only the loudspeaker aspect of fire evacuation systems. The wider EN54 standard encompasses regulations for all other components of fire evacuation systems and it is essential that the design, application and commissioning of voice alarm systems as a whole is overseen by a competent person.

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