

# HERZAN

[www.herzan.com](http://www.herzan.com)

Acoustic, Vibration, and  
EMI Isolation Specialists

# Electron Microscope Acoustic Enclosure

## Overview

Technological advancements in the field of electron microscopy make electron microscopes (EMs) more sensitive and vulnerable to ambient acoustic noise. With over 20 years experience providing high-performance acoustic enclosures to the research community, Herzan is uniquely positioned to support users of EMs limited by acoustic noise.

Utilizing a modular panel design, Herzan's EM acoustic enclosures provide the lowest noise floor possible, while being easy to operate and simple to maintain. Each EM acoustic enclosure comprises of numerous variable density layers with carefully chosen high quality hardware to optimize acoustic damping performance throughout the broad frequency spectrum (50 - 5,000+ Hz).

Herzan carefully articulates the design of every EM acoustic enclosure to represent the specific needs of the user's application and the accessibility required by the EM manufacturer service personnel.



*Customized EM Acoustic Enclosure with Segmented Side Panels  
and Direct Access Window for A Load Lock System*

## Product Highlights

- Rigid Steel Construction with High Quality Hardware
- 13 Layers of Variable Density Sound Damping Material
- Attenuates Acoustic Noise from 50 - 5,000+ Hz
- Modular Paneled Design for Ease of Installation & Use
- 360° Access Around the Electron Microscope (EM)
- Uniquely Designed for Each EM Model Number
- Designed, Engineered, & Manufactured in the USA
- 100% Customizable for Individual Research Needs

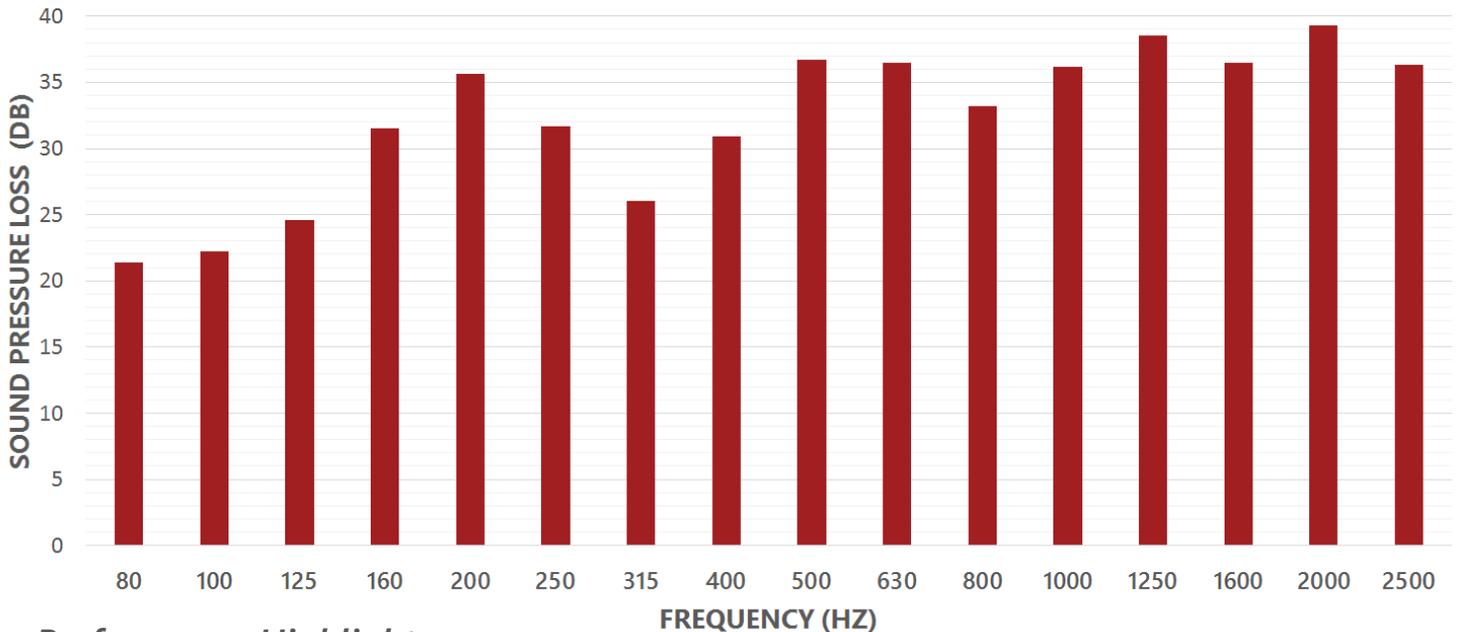
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# Performance

The multi-layered, variable density material lining the walls of the EM acoustic enclosure allow for high performance acoustic isolation across a broad frequency spectrum. **NOTE:** performance may vary depending on the size and unique features of the configured EM acoustic enclosure.

## ACOUSTIC ISOLATION PERFORMANCE

dB Outside of Enclosure - dB Inside of Enclosure



### Performance Highlights

- 36 dB of sound loss at 200 Hz
- 37 dB of sound loss at 500 Hz
- 36 dB of sound loss at 1,000 Hz
- 38 dB of sound loss at 1,250 Hz
- 39 dB of sound loss at 2,000 Hz
- 37 dB of sound loss at 2,500 Hz

## DEFAULT EM ACOUSTIC ENCLOSURE DIMENSIONS

Dimension	Width		Depth		Height	
	inches	mm	inches	mm	inches	mm
Internal Dimensions	55.1	1,400	55.1	1,400	80.7	2,050
External Dimensions	59	1,500	59	1,500	82.7	2,100

### EM Acoustic Enclosure Dimensions Guide

Every EM acoustic enclosure has the opportunity to customize the dimensions based on the size of the EM, the requirements of the user's application, and the accessibility needs of the EM manufacturer service personnel. The dimensions listed above serve as a size reference for previously built EM acoustic enclosures and can be modified as needed.



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