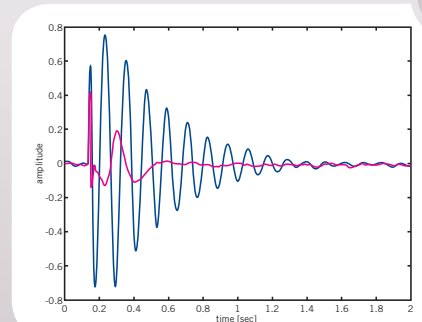


Acoustic Enclosures – as an Accessory to the Active Workstation Series

Halcyonics manufactures acoustic enclosures to protect sensitive equipment setups from airborne noise; these enclosures are supplied as accessories for the company's active workstation system.



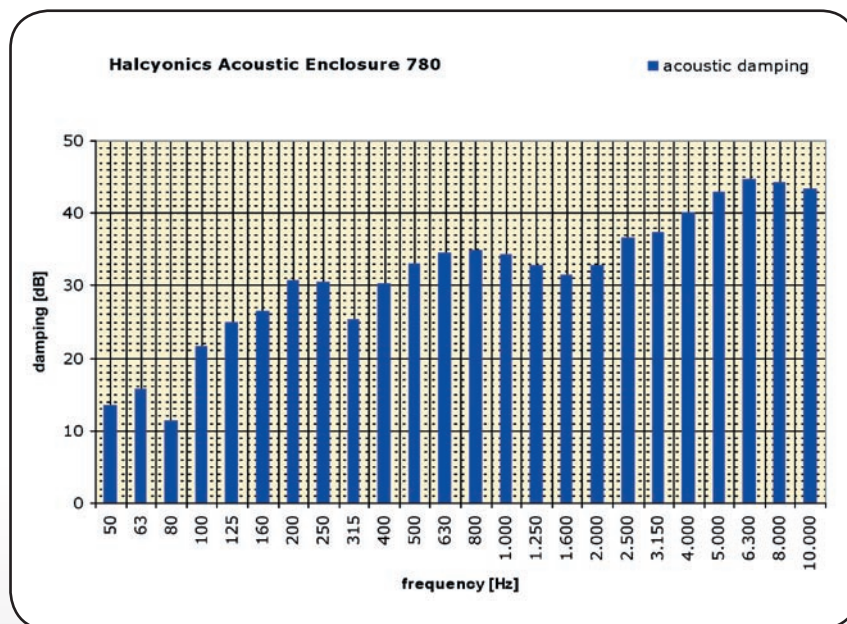
Halcyonics acoustic enclosures – protection against airborne noise

The new enclosures have been designed as accessories for active workstations 780 and 900; however, the enclosures can be used without these workstations. For detailed information on Halcyonics active workstations, please see the data sheet “Active Workstation Series” It is also possible to retrofit already existing Halcyonics active workstations with acoustic enclosures. Unlike the acoustic enclosures available so

far, the entire front part of the new Halcyonics enclosure can be effortlessly lifted by the gas pressure actuated mechanism. This provides optimal access to the interior of the equipment setup. Microscopes, one of the equipment setup options, can thus be easily accessed at an angle from either side.

The new Halcyonics enclosure consists of a multi-layer wall construction for optimal broad-

band damping of acoustic noise. The walls are inclined at 4° degrees, thereby effectively preventing sound waves from spreading. The rated reduction of the sound power level $D_{w,w}$ achieves 33 dB. All these specifications apply to measurements performed according to DIN-EN 11546-1; for further details, please refer to the table of specification.



▲ Fig. 1: Reduction of sound power level of Halcyonics Acoustic Enclosure 780 - considers the interval from 50 Hz to 10 kHz

Features and benefits

- Modular design, two different standard sizes available
- Customized sizes on request
- Front door lifted by the gas pressure actuated mechanism
- Multi-layer wall construction for optimal broadband damping
- Walls are inclined at 4° degrees, thereby effectively preventing sound waves from spreading

The ideal solution for SPM's and more – customized versions on request

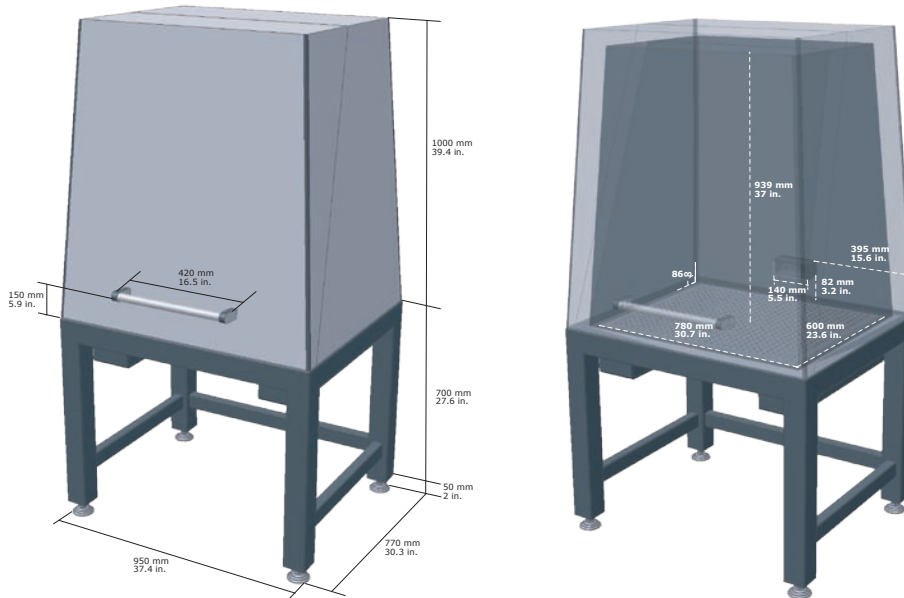
The new acoustic enclosure is ideal for equipment that is sensitive to airborne noise, such as scanning probe microscopes, systems for error identification in semiconductor wafers and other high-resolution measuring instru-

ments. Those are best isolated by Halcyonics active workstations with an acoustic enclosure against building vibration, other effects of vibration and airborne noise.

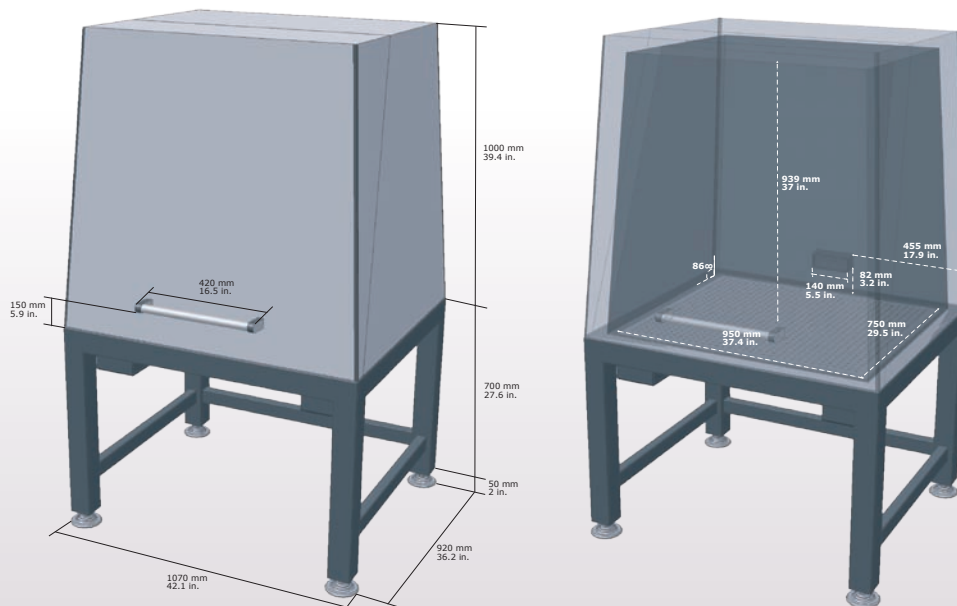
Customized acoustic enclosures are available

on request from Halcyonics. Just give us a call and we will be pleased to offer a customized system specially designed to meet your technical requirements for vibration isolation.

Acoustic Enclosure 780



Acoustic Enclosure 900



▲ Fig. 2: Dimensions of both acoustic enclosures, mounted to Halcyonics Active Workstation tables.

Technical Specifications	
Available Standard Versions	
Acoustic Enclosure 780	
Acoustic Enclosure 900	
Performance Specifications	
Reduction of sound power level:	
	50 Hz: 13.5 dB 63 Hz: 15.7 dB 80 Hz: 11.3 dB 100 Hz: 21.7 dB 125 Hz: 25.0 dB 160 Hz: 26.4 dB 200 Hz: 30.7 dB 250 Hz: 30.5 dB 315 Hz: 25.3 dB 400 Hz: 30.3 dB 500 Hz: 33.0 dB 630 Hz: 34.5 dB 800 Hz: 34.8 dB 1,000 Hz: 34.2 dB 1,250 Hz: 32.7 dB 1,600 Hz: 31.4 dB 2,000 Hz: 32.7 dB 2,500 Hz: 36.6 dB 3,150 Hz: 37.3 dB 4,000 Hz: 40.0 dB 5,000 Hz: 43.0 dB 6,300 Hz: 44.7 dB 8,000 Hz: 44.3 dB 10,000 Hz: 43.2 dB
All measurements performed according to DIN-EN 11546-1	
Other Specifications	
Dimensions:	See figure 2
Weight:	Acoustic Enclosure 780: 80 kg Acoustic Enclosure 900: 100 kg
Environmental and Operational Requirements	
Relative humidity:	0–90%
Operating temperature:	5–60° C (41–140 F)

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