ACOUSTIC NOISE ISOLATION
ACOUSTIC NOISE ISOLATION: HALCYONICS_ACOUSTIC

Halcyonics acoustic enclosures have been designed as accessory to our active vibration isolation systems but they are also available as stand-alone devices.

Due to a multi-layer wall construction, the enclosure provides broadband damping of airborne and structure-borne noise, caused by e. g. air conditioning, ventilation or vacuum pumps. The walls are inclined at 4° to prevent sound waves from spreading. The entire front part of the acoustic enclosure can be effortlessly lifted by a gas pressure actuated mechanism. This provides optimal access to the internal chamber and the set-up inside.

The light-weight construction of the acoustic enclosures enables the use in locations with limited floor load-bearing capacity. To ensure their stability during operation, larger versions are usually mounted on a solid steel frame.

To meet the requirements of our customers, we offer a wide range of customizations regarding dimensions and cable port.

ACCESSORIES AND OPTIONS

- Steel support frame
- Selectable position of the cable port
- Modifications according to customer requirements

KEY FEATURES:

- Broadband damping of acoustic noise through multi-layer wall construction.
- Smooth gas pressure spring opening.
- Light-weight design compared to steel enclosures.
- Easy access to the interior chamber.
- 4° wall inclination to avoid sound wave spreading.

SELECTED EXAMPLES

- Acoustic Enclosure_200 with Nano 20
- Acoustic Enclosure_200 closed
- Acoustic Enclosure with i4 large and support frame
<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>AE_200</th>
<th>AE_600</th>
<th>AE_780</th>
<th>AE_900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside dimensions (L × W × H)</td>
<td>352 × 352 × 415 mm</td>
<td>600 × 600 × 800 mm</td>
<td>780 × 600 × 940 mm</td>
<td>950 × 750 × 940 mm</td>
</tr>
<tr>
<td>Outside dimensions (L × W × H)</td>
<td>450 × 450 × 500 mm</td>
<td>700 × 700 × 880 mm</td>
<td>950 × 770 × 1,000 mm</td>
<td>1,070 × 920 × 1,000 mm</td>
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<td></td>
<td>17.7“ × 17.7“ × 19.7“</td>
<td>27.6“ × 27.6“ × 34.6“</td>
<td>37.4“ × 30.3“ × 39.4“</td>
<td>42.1“ × 36.2“ × 39.4“</td>
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<tr>
<td>Weight</td>
<td>20 kg / 44 lbs</td>
<td>70 kg / 154 lbs</td>
<td>80 kg / 176 lbs</td>
<td>100 kg / 220 lbs</td>
</tr>
<tr>
<td>Isolation technology</td>
<td>Multi-Layer wall construction using organic fiber board with outer melamin resin surface and acoustic isolation foam based on polyether-polyurethane materials on the inside.</td>
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<tr>
<td>Flammability of foam damping layer</td>
<td>&lt; 100 mm / min.</td>
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<td>(FMVSS 302 DIN 75 200)</td>
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<tr>
<td>Door lifting</td>
<td>2 gas pressure springs</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Handle(s)</td>
<td>Aluminum alloy, tubular</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cable port dimensions</td>
<td>140 × 25 mm / 5.5“ × 1“</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Environmental and operational</td>
<td>Relative humidity: 0 – 90 %</td>
<td></td>
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<tr>
<td>requirements</td>
<td>Operating altitude: &lt; 2,500 m / 8,100 ft</td>
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</tbody>
</table>

Note: The acoustic enclosures are not cleanroom compatible.

Errors and omissions excepted.

**AE_600**

Inside dimensions:
600 × 600 × 800 mm
23.6“ × 23.6“ × 31.5“
SOUND POWER LEVEL REDUCTION OF ACOUSTIC ENCLOSURE_780 (EN_11546-1)

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