ENCLOSURE MSK100

Sound-insulating MSK enclosures are developed for outside use and ensure that the sound from machinery, such as pumps, compressors and motors, is dampened to an acceptable level. The system has as standard an $R_w$ value of 33 dB. The MSK system is mounted on an underlying steel frame that guarantees the stability in conformance with the building standards.

APPLICATIONS
A lot of noise in the energy sector is generated by motors, generators and compressors. A sound-insulating enclosure is the solution for meeting statutory requirements and applicable standards with respect to its accessibility, fire resistance, ventilation, temperature management and gas density. There are many options in terms of insulation, absorption and finish. In result, virtually all problems can be solved with a proper solution for both existing and new enclosure developments.

NOISE REDUCTION, FIRE RESISTANCE AND GAS TIGHTNESS
A sound-insulating enclosure MSK ensures that the generated sound is dampened. In addition, this model is fire safe and gas tight and as a result ATEX-proof. The degree of reduction is determined by the sound absorbing capacity and the insulation performance of the enclosure. The standard model is capable of reducing noise levels with 33 dB. Higher insulation values are available on request.

DIMENSIONS
- Panel thickness: variable.
- Panel dimensions: a maximum of 1,000 mm x 8,000 mm.

WEIGHT
Panel weight: starting at approx. 21 kg/m².

FEATURES
- Minimal sound insulation of 33 dB
- Sound absorption value 0.90
- Customer specific dimensions
- Interior and exterior finish with enamel treatment
- Fire resistant up to 60 minutes in conformance with UNI 7678-77
- Thermal insulation $R_w$ of 2.5 m x K/W in conformance with NEN-EN 112667

APPLICATIONS
- Compressors
- Transformers
- Pumps
- Combustion engines
- CHP systems
- Bio systems
- Engineering

SOUND INSULATION
Airborne sound insulation values measured with ISO 140-3 and calculated conform ISO-717-1

FIRE CLASSIFICATION
60 min. according to UNI
NOISE CONTROL | ENCLOSURES

HOUSING OF TYPE MSK100

COMPOSITION
Galvanised coated steel plate with acoustic filling. Also available in stainless steel.

FINISH
Finished on the inside and outside with an enamel treatment (in a limited range of colours). Blind sheet metal work on the outside. For the inside wall surface can be chosen between a perforated or blind finish (depending on the desired absorption and insulation).

OPTIONS
Available in combination with:
- Removable roof and/or wall.
- Doors, windows, ventilation, (fire) valves, grids, filters, ducts, etc.
- ATEX model.
- Lighting.
- Gantry system.

DISCLAIMER
Although this product sheet is drawn up meticulously, no right can be derived from its content. We reserve the right to make changes. For the most up-to-date version, please contact our sales department or visit our website.

GUARANTEE
Merford provides you with custom-made and guaranteed, acoustic and thermal solutions. Contact our sales department to discuss your specific requirements.

Sound insulation and absorption values for MSK panels in conformance with ISO 11691:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Insulation (dB)</th>
<th>Absorption</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>23</td>
<td>0.58</td>
</tr>
<tr>
<td>250</td>
<td>26</td>
<td>0.76</td>
</tr>
<tr>
<td>500</td>
<td>30</td>
<td>0.84</td>
</tr>
<tr>
<td>1000</td>
<td>27</td>
<td>0.94</td>
</tr>
<tr>
<td>2000</td>
<td>38</td>
<td>0.96</td>
</tr>
<tr>
<td>4000</td>
<td>50</td>
<td>0.85 (dB)</td>
</tr>
</tbody>
</table>

Single values for sound insulation and absorption for MSK panels in conformance with ISO 717-1 and EN ISO 354:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>R / a (dB)</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>33 (2.4)</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>33 (2.4)</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>33 (2.4)</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>33 (2.4)</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>33 (2.4)</td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td>33 (2.4)</td>
<td></td>
</tr>
</tbody>
</table>

Merford Noise Control
Tel: +31 (0)183 675 000 | noisecontrol@merford.com | www.merford.com