DESCRIPTION

The creation of this bass trap patent and its manufacturing method consists of a very solid metal box, on which a bitumen elastic layer on each of the two sides is applied. The resonator’s absorbing surfaces are thin massive plates: the front one with high elasticity and low internal friction and the back plate with less elasticity causing a high internal friction. This combination creates an all-over solid connection through the metal box between the front and back plates. This compound forms a box sealed all around, closed to the air pressure, but opened to the sound. The front and the back plates do not prevent the entering of low frequencies from going inside the box interacting with a different air pressure. Like a tunable Helmholtz resonator, the membrane is excited by the resonance frequency and it vibrates so strong that the weight of the limp mass pushes and pulls the air cushion inside the box.

The ABSTRACT® resonance box formula comprises two limp elastic masses separated by the distance between them, benefiting the isothermal compression, thus providing better sensibility by absorbing the low-end frequencies at very low sound pressure levels. This system is very sensitive, however, the louder the sound system is, pumping the volume up, the more absorption you can get. Consequently it’s an incredible high-efficiency low-frequency absorber panel.

By using a simple air compressor device you are free to vary and change the internal air pressure, hence obtaining different frequencies of absorption. The distance between the membranes varies according to the internal air pressure difference, for example with positive air pressurization we have a bigger distance and the air pressure superior to the original exterior pressure. As result, the frequency varies in accordance with the mentioned frequencies pattern.

MODELS AND SIZES

<table>
<thead>
<tr>
<th>MODELS</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSW/200</td>
<td>200 cm</td>
<td>100 cm</td>
<td>20 cm</td>
<td>45 Kg</td>
</tr>
<tr>
<td>BSW/100</td>
<td>100 cm</td>
<td>100 cm</td>
<td>20 cm</td>
<td>24 Kg</td>
</tr>
</tbody>
</table>

TECHNICAL DRAWINGS

STANDARD FABRIC COLOURS

IMPORTANT NOTICES

• Despite all the standard sizes of all products, this model can be customised upon previous consultation. Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

• Colours may vary due to raw-material suppliers’ changes and some differences may occur in tonal range.

• RAL is an international independent colour standard system partner for industry, trade, architecture and design. Should be consulted before placing any order.

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