EMC SHAC-200 Fully Anechoic Chamber

Description
EMCTEST’s model EMC SHAC-200 is a compact, fully anechoic RF enclosure for making Over-the-Air performance measurements. The EMC SHAC 200 is built on a moveable cart trolley, it fits into parent buildings without any restriction. This Over-the-Air system for wireless, mobile handset device measurements may be used for prototyping, pre-certification testing, performance measurements and production sampling with a good correlation to measurements made in larger fully compliant chamber.

Key Features
- Engineered and completely manufactured both in Italy and Brazil.
- Ruggedized fully hot galvanized steel construction (INOX steel optional)
- Unique compact design.
- Optimized for EMI and EMC.
- Strong fields achieved with low input power
- Broadband up to 20GHz.
- High effective shielding
- 2 poles 230Vac 50Hz 10A EMI standard line filter
- Excellent quality at Low cost

The EMC SHAC-200 is an ideal solution when space is a limitation, it can be used for pre-compliance electromagnetic compatibility measurements, as well as biomedical applications. The electromagnetic field distribution inside the chamber is Planar Vertical or Horizontal polarized wave mode. Assuming the field distribution ideal below the cut-off frequency of the cell (before the introduction of higher order modes), the electromagnetic field distribution can be considered static.

Applications
- Efficient Over-the-Air Antenna Pattern Measurements
- 2D-3D antenna Patterns
Makes your EMC Test easier!

- Total radiated Power (TRP)
- Effective Isotropic Radiated Power (EIRP)
- Total Isotropic sensitivity (TIS)
- Effective Isotropic Sensitivity (EIS)
- Test ambient for Microwave in the frequency range 700MHz-20GHz
- Radiation and susceptibility test
- Biomedical and dosimetrical applications
- Isotropic sensors calibration
- Receiver sensitivity test
- Shielding effectiveness characterization test

### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
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<tbody>
<tr>
<td>Antenna frequency range</td>
<td>800MHz-18GHz</td>
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<tr>
<td>Antenna RF Input</td>
<td>Max continuous. Input power: 500W RF continuous up to 1GHz, 300W up to 18GHz, Peak 1.5Kw.</td>
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<tr>
<td>Polarization</td>
<td>Vertical / Horizontal switchable</td>
</tr>
<tr>
<td>Input connector type</td>
<td>&quot;N&quot; precision UG-21</td>
</tr>
<tr>
<td>Shielding</td>
<td>Better than 90dB</td>
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<tr>
<td>Absorbers</td>
<td>300 mm anechoic pyramidal foam</td>
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<tr>
<td>Outer cell dimension</td>
<td>(L)276x(W)145x(H)190 cm (trolley included)</td>
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<tr>
<td>Weight</td>
<td>About 800 Kgs.</td>
</tr>
<tr>
<td>Door Size clearance</td>
<td>80 x 80 cm</td>
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<tr>
<td>Construction</td>
<td>Fully Hot galvanized steel 10/10 and 20/10 thickness</td>
</tr>
</tbody>
</table>

### Technical panel

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
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<tbody>
<tr>
<td>N.2 Feed-thru &quot;SMA/SMA&quot; connectors</td>
<td>N.1 16 amp. 450VAC, three phase + Ground line filter</td>
</tr>
<tr>
<td>N.1 Feed-thru &quot;N-N&quot; connector</td>
<td>N.1 Ground connection screw</td>
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<tr>
<td>N.1 feed-thru fibre optic penetration for 3 couples.</td>
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### Options

- Inspection window with shielded polycarbonate glass  20 cm Diam.
- Feed-through panels, pipes connector
- Multi holes feed-thru fibre optic penetration for 3 or 6 couples.
- DB-9, DB-25 filtered connectors
- RJ9, RJ11, RJ45, RS-482 filtered connectors
- Honeycomb air vents
- Exhaust fan
- TDK 6mm. ferrite tiles on the bottom

* data subject to variations without notice