

Environmental & vibration validation testing

ENVIVA



TECHNICAL SPECIFICATIONS

- **Electrodynamic Shaker & Horizontal Sliptable**
 - Frequency range: 5Hz to 2200Hz
 - Force: Sine 40kN; Random 40kN rms; Shock 80kN
 - Max Acc: Sine 90G; Random 63G rms; Shock 180G
 - Max Vel.: 2.4m/s
 - Max Disp.: Sine 100mmp-p
 - Max Payload : 600kg, including fixture
 - Armature diameter: 440mm
 - Head-expander: 750mm X 750mm
 - Horizontal Sliptable: 750mm X 750mm, low friction
 - Input Signals: sine, sweep, random, shock
- **Climate chamber**
 - Chamber size: approx. 1150L (W: 1100mm, D: 1100mm, H: 950mm)
 - Temperature range: -40°C to +180°C
 - Temperature ramp rate: Heating: 5.5K/min and Cooling: 4.5K/min
 - Humidity range: 10% RH to 95% RH



- **Solar simulation**

- Radiation 1 X 2500W metal-halide-lamp
- Intensity approx. 400W/m² to 1150W/m²
- Regularity of 5% related to the reference level
- Spectral power distribution according to DIN75220, incl. UVA & UVB

- **N₂ atmosphere**

- For testing with optional additional fire safety

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