

Environmental Test Labs

Temperature Durability and Vibration Testing



Visteon European Testing Operations provides climatised shakers, climatic chambers and ovens for vibration, accelerated aging and durability testing for a large range of component investigations. For vehicle and other large scale test articles a powerful climatic vehicle chamber and a climatic wind tunnel, a unique laser lab for airflow measurements and a large size climatic lab with modern test rigs are available. The labs are located directly at the Kerpen (Germany) motorway junction between Aachen and Cologne.

1-Axis Shakers

- Up to 2400 Hz
- Up to 49g / 57,6 kN / 480 m/s
- -40 °C to +180 °C environment temperature plus humidity load
- Up to 40 kg payload
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OVENS AND CHAMBERS

- Programmable temperature chambers. Temperature range, -60 to +200 degrees C. Internal Capacity range, 500 x 500 x 500 mm to 1000 x 1000 x 1000 mm.
- Ovens, Temperature ranges up to 300 Degrees C. Internal capacity range between 500 x 500 x 500 mm, to W1200, D500, H900 mm.

CAPABILITIES

- Durability tests
- Temperature resistance tests
- Humidity resistance tests
- Accelerated component aging
- Random shock tests
- Sine wave testing
- Road load data vibration operation
- Eigen- / resonance-frequency determination
- Functional testing under / after extreme climatic and vibrating conditions
- Possible to perform combined temperature and vibration testing

Visteon Corporations European Test Operations

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Climatised High Frequency Shakers Climatic Chambers and Ovens Main Features



Vibration Test Stand 1	
maximum amplitude	51 mm
maximum frequency	2400 Hz
max. accel./ force	50g / 35,6 kN / 480 m/s
Type	LDS 875 / 640 B

Climatic Chamber 1	
Temperature	-40°C to +120°C
Relative humidity	25 % to 90 %
Chamber size	1.3 m ³
Additional feature	Coolant circuit for test article heat load
Type	Weiss 1300 US

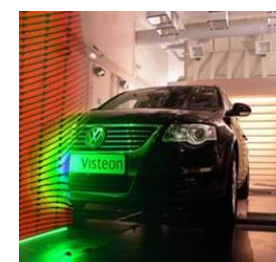
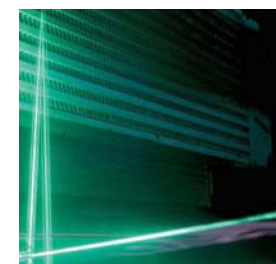
Vibration Test Stand 2	
maximum amplitude	51 mm
maximum frequency	2400 Hz
max. accel./ force	40g / 57,6 kN
Type	LDS 895/640 T

Climatic Chamber 2	
Temperature	-40°C to +180°C
Relative humidity	10 % to 90 %*
Chamber size	1 m ³
Type	Voetsch VCV 4100-5/S

Climatic chambers and ovens	
Temperatures	Ranging from -60 to +300 °C
Chamber size	Ranging from 500x500x500 to 1200x500x900 mm

Common applications

- Vibration durability testing
- Resonance frequency evaluation
- Temperature and humidity loaded shaker testing
- With passive and active components
- Functional operation and exercising under extreme environmental conditions
- Accelerated component aging



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