

Environmental Climatic Testing

Technical Information



Climatic Testing

- Hot & Cold
- Humidity with temperature
- Salt Corrosion
- Sand & Dust
- Mould Growth
- Thermal Shock
- Gas Corrosion

Range of Products Tested

- Electrical / Electronic Components
- Electro-Mechanical Devices
- Mechanical Products
- Micro-Electronic Circuits & Components
- Automotive Components
- PCB Assemblies
- Telecommunication Equipment

Abtest is a UKAS accredited independent laboratory capable of testing products to National and International Standards, as well as customer generated specifications. We can test your product for environments such as the heat and dust of the Arizona desert, the cold and ice of Siberia, to the humidity of the Brazilian rain forest.



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Temperature / Humidity / Pressure

Numerous chambers are available which can perform hot or cold, dry or humid, steady state or cyclic, pressure or vacuum, within the following conditions:

Maximum size – 1.2m x 1.2m x 0.75m

Maximum temp - +300°C

Minimum temp - -80°C

Humidity control from 10% to 98% Relative Humidity

Pressure - -1bar to + 200 bar

Note – all the above conditions may not be achievable in one chamber.

Salt Corrosion

In addition to the more common requirements of salt spray, fog and mist tests called up by BS, MIL and other International Specifications, Abtest can carry out many other versions of these tests. These include the Kersternich test (DIN50018), and the capability to automatically inject sulphur dioxide gas into the chamber at predetermined intervals and levels. Chamber size: 0.9m x 1.3m x 0.8m.

Gas Corrosion

Single or mixed gases including Hydrogen Sulphide, Sulphur Dioxide, Nitrogen Dioxide and Chlorine.

Thermal Shock / Rapid change of Temperature

Temperature: +300 to -80°C

Chamber size: 0.6m x 0.6m x 0.6m

Mould Growth

Chamber size: 0.4m x 0.4m x 0.4m. To meet the requirements of BS2011 Test J and those of many commercial specifications.

Model Shop/Tool Room

This facility with Computer Numerical Control (CNC) and graphic enhanced machine tools is also available. We design and manufacture a wide range of products. These include Prototype Models for customer exhibitions, test equipment for use in automotive and computer industries, fixtures can be linked to computer controlled data analysers designed and built by our Engineering facility. General tool room work can also be offered with fast delivery turnaround.

Sand and Dust

Chamber size: 0.9m x 0.9m x 0.9m. Equipment facilities for sand and dust testing to various specifications are available.

Water

Drip, Spray, Splash & Rain.

Plan area:

0.45m x 0.30m x 0.15m

Immersion Tank size:

1.2m deep x 0.6m diameter

Fine Mist – chamber size:

0.9m x 1.3m x 0.8m



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