

Climatic and Environmental Test Capabilities

Provide a comprehensive range of facilities and equipment to replicate real world climatic and environmental conditions for performance analysis and development of whole vehicles and components.

Resources

A range of chambers for benchmarking the ability of a vehicle or component to perform to bespoke or customer specified test parameters.

Applications and capabilities

Environmental Chambers (several available)

- Maximum dimension: 6 x 4 x 2.9 metres (69,600 litres)
- Maximum temperature: +150°C
- Minimum temperature: -60°C
- Maximum rate of change: +5.0°C/min
- Nominal rate of change: +3.5°C/min

Variable Temperature Emissions Chamber

- Temperature range: -30 to +50°C
- Fully transient 48 inch single roll chassis dyno capable of up to 20,000kgs inertia simulation
- Multi-venturi CVS system for engine tail pipe and bag emissions sample

Large Climatic Chamber

- Internal dimensions: 13.7 x 5.7 x 6 metres
- Main vehicle door opening: 5.1m high x 5.0m wide
- Maximum temperature: +85°C
- Minimum temperature: -60°C

Ovens (several available)

- Max dimensions: 480 x 500 x 430 mm (103 litres)
- Maximum temperature: +500°

Corrosion Chamber

- Capacity: 3.5 x 3.5 x 11 metres (134,800 litres)
- Temperature range: +50°C and 99% RH
- Note: temperature can also be obtained using dry heat

Ascott S1000 Salt Spray Corrosion Chamber

- Capacity: 1,000 litres
- Temperature range: ambient to +50°C
- Salt fog fallout rate: 0.5 – 4.0 ml/hour

Dust Chamber (several available)

- Internal dimensions (up to): 2 x 2 x 1.7 metres (6,800 litres)
- Dust: various – details available on request



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