

Climatic and Environmental Test Capabilities

Millbrook provides a comprehensive range of facilities and equipment to replicate real world climatic and environmental conditions for performance analysis.

It has a range of temperature chambers for benchmarking the ability of a vehicle or component to perform to bespoke or customer specified test parameters. For driven tests in a cold environment, Millbrook has a proving ground in Finland with all-year-round winter conditions.

Environmental Chambers

- 17 environmental chambers
- Maximum dimensions: 6.3m x 4.3m x 4m
- Maximum temperature: +180°C
- Minimum temperature -70°C
- Maximum rate of change: +5°C/min

Large Climatic Chamber

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

Variable Temperature Emissions Chamber

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

Ovens

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



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Environmental testing also includes corrosion and contaminate chambers for benchmarking vehicles or components. Testing can be conducted to international standards or to bespoke or customer specified test parameters.

Full Vehicle Corrosion Chamber

- Salt mist and humidity chambers
- Capacity: 3.5m x 3.5m x 11m (134,750 litres)
- Temperature range: +50°C and 99% RH
- Temperature can also be obtained using dry heat
- Salt splash with body articulation
- Upper body salt application
- Coupon mass loss method controlled corrosion

Salt Spray Corrosion Chambers

- 4 corrosion chambers
- Dimensions: 2.1m x 0.95m x 1.5m (2,600 litres)
- Temperature range: ambient to +50°C
- Salt fog fallout rate: 0.5 - 4ml/hour

Dust Chamber

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

