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CTAH – Climatic Altitude Chamber 1m³ (35ft³) Icing Test for Batteries

Climatic altitude chamber 1m³ (35ft³) Combined Temperature Vacuum Humidity -65°C / +100°C 1 mbar (approx. altitude 106.4 kft)

Industries

Aeronautics and Li-Ion Batteries

Application

Performing climatic and altitude combined tests, lcing tests, as per D0160 norm, on batteries for aeronautics

Description of the equipment

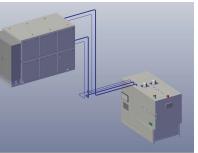
- Test chamber with its conditioning unit at the back
- Remote machinery with electrical cabinet
- Command panel on the sideCommand panel on the side
- Control and supervision software SPIRALE Vs



Safety features for battery testing







Remote machinery

Technical Data

The performances are given for :

- An ambient temperature between +15°C and +35°C
- A constituted load of : Okg
- A thermal load of : 0 kW

Temperature

From atmospheric pressure to 100 mbar (approx. altitude 52 kft Range : -65°C / +100°C Cooling/heating rate : 10°C/min average between +100°C and -55°C

Humidity

Humidity range : 10% to 98% without dissipation and for a vacuum down to 150 mbar (approx. altitude 44.3 kft) For temperature range : $+10^{\circ}$ C / $+95^{\circ}$ C Humidity stability : $\leq \pm 5$ % RH Dew point range : $+4 ... + 75^{\circ}$ C

Vacuum

Range : from AP to 1 mbar, controlled down to 10 mbar Variation speed : from AP to 20 mbar in 30 min Control accuracy : \pm 1 mbar from AP to 10 mbar

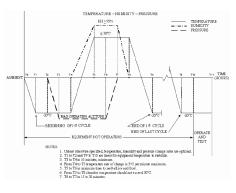
Safety for battery testing

- Redundant smoke detection system
- 02 and N2 level monitoring
- Overpressure flap
- GN2 inerting and flushing system

Dimensions

	Test Space	External	Remote
	Dimensions	Dimensions	Machinery
Width	1000mm (39.4")	1475mm (58.1")	1600mm (63.0")
Depth	1000mm (39.4")	2930mm (115.4")	4500mm (177.2")
Height	1000mm (39.4")	2600mm (102.4")	2500mm (98.4")

Icing test as per D0160 section 24 cat. B



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