# weisstechnik a schunk company

# CTAH – Climatic Altitude Chamber 1m<sup>3</sup> (35ft<sup>3</sup>) Icing Test for Batteries

# Climatic altitude chamber 1m<sup>3</sup> (35ft<sup>3</sup>) 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

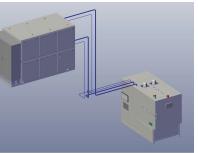
- Test chamber with its conditioning unit at the back
- Remote machinery with electrical cabinet
- Command panel on the sideCommand panel on the side
- Control and supervision software SPIRALE Vs



#### 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

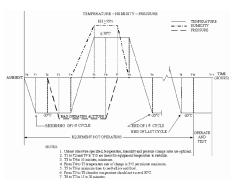
#### Safety for battery testing

- 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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