

TAH - Temperature Altitude Humidity Chamber 500L (18ft³)

Climatic chamber 500L (18ft³)
Heat Cold Vacuum
Humidity -70°C / +100°C
10 mbar (approx. altitude 85 kft)

Industries

Aeronautics, electronics and defense

Application

Climatic and altitude tests on electronic equipment for aeronautic industry

Description of the equipment

Unit composed of :

- The test chamber with its conditioning unit at the back
- Machinery on the rear side with its electrical cabinet
- Command panel on the side
- Control and supervision software SPIRALE Vs



Technical Data

Performances are given for :

- An ambient temperature between +15°C and +35°C
- Water temperature inlet / outlet : +20°C / +25 °C
- A constituted load of : 0kg
- A thermal load of : 0 kW

Temperature

From atmospheric pressure to 200 mbar (approx. altitude 38.5 kft)

Range : From -70°C to +100°C

Cooling rate :

5°C/mn average from +100°C to -70°C

Heating rate :

5°C/mn average from -70°C to +100°C

At atmospheric pressure

Stability : $\leq \pm 1^\circ\text{C}$

Homogeneity : $\pm 1^\circ\text{C}$ to 3°C at 25cm of the walls

Humidity

At atmospheric pressure (site level)

Humidity range : 20% to 95% without dissipation

For temperature range : +20°C / +80°C

Humidity stability : $\leq \pm 5\% \text{ RH}$

Control accuracy : $\pm 1\% \text{ RH}$

Vacuum

Range : from AP to 10 mbar, controlled down to 50 mbar (approx. altitude 63.5 kft)

Variation speed : from AP to 20 mbar in 30 mn

Control accuracy : $\pm 3 \text{ mbar}$ from AP to 10mbar

Dimensions :

	Test space Volume	External Dimensions
Width	800mm (31.5")	1200mm (47.2")
Depth	800mm (31.5")	2600mm (102.4")
Height	800mm (31.5")	2270mm (89.4")

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