

TAH - Temperature Altitude Humidity Chamber 1m³ (35ft³)

Climatic chamber 1m³ (35ft³)
Hot Cold Vacuum Humidity
-70°C / +180°C
1 mbar (approx. altitude 106.4 kft)

Industries

Aeronautics, electronics and defense

Application

Climatic and altitude tests on electronic equipment for aeronautic industry

Description of the equipment

- 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 : -70°C / +180°C

Cooling rate :

5°C/mn average from +85°C to -55°C

3°C/mn average from +100°C to -60°C

Heating rate :

5°C/mn average from -55°C to +85°C

3°C/mn average from -60°C to +100°C

At atmospheric pressure

Stability : $\leq \pm 0,5^{\circ}\text{C}$

Homogeneity : $\pm 1^{\circ}\text{C}$ to 3°C at 10cm of the walls

Control accuracy : $\pm 0,2^{\circ}\text{C}$

Humidity

At atmospheric pressure

Humidity range : 10% to 98% without dissipation

For temperature range : +10°C / +85°C

Humidity stability : $\leq \pm 5\%$ RH

Control accuracy : $\pm 1\%$ RH

Dew point range : +5 .. +79°C

Vacuum

Range : from AP to 1 mbar, regulated down to 20 mbar

Variation speed : from AP to 20 mbar in 30 min

Control accuracy : ± 2 mbar from AP to 10 mbar

Dimensions :

	Test space Volume	External Dimensions
Width	1000mm (39.4")	1600mm (63.0")
Depth	1000mm (39.4")	4000mm (157.5")
Height	1000mm (39.4")	2500mm (98.4")

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