

25m³ modulated environmental chamber

Environmental tests on planes' wings



Two environmental chambers, at first totally independent in term of functioning, but that could be put together for tests on longer planes' wings.

The detachable central wall just has to be removed to double the volume :



A supervisor connected to the two control PC enables to synchronize these two equipments in order to get a very good regulation within the temperature and humidity whole range.

This thermal synchronization was one of the project difficulties, a fine approach of metrology and a perfect symmetry of mounting have led to good results.

Dimensions (mm)	W	D	H
Useful	7000	1800	2000
Overall	on request		

climats



Technical features

Temperature range

from +100°C to -70°C

Hygrometry

from 10 to 98% humidity

Speed variation

1°C/min from +70°C à -70°C with a 1500 kg load

Homogeneity and Regulation

Temperature homogeneity

below $\pm 1,5^{\circ}\text{C}$

stability of $\pm 0,3^{\circ}\text{C}$

