

4000 dm³ combined vibration and temperature

VIBRATION & TEMPERATURE TEST CHAMBER



4000 dm³ environmental chamber for vibration and temperature combined tests.

Very special machine because of its multivalence, it has been manufactured upon specifications **to carry out different standards**, mixing wide variation rates, **rapid saturation tests and negative dew-points**, all of it with a load of about 200 kg.

Very powerful and efficient chamber composed of several independent refrigerating circuits that enable an accurate management of needs. Both airflows are directly blown upon the product to improve the thermal impact.

Numerous technologies are embedded: air dryer, product probe, capacitive measurement, spraying, boiler, phase absence detector, LN2, negative dew-point management.



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Technical features :

Dimensions (mm)	Width	Depth	Height
Useful	3300	1200	1000

Temperature range

from +180°C to -70°C

Speed variation

- 15°C/min average from +70°C to -55°C and the other way round with a 250 kg load
- 30°C/min average with LN2 as complement from +70°C to -55°C and the other way round with a 250 kg load

Hygrometry

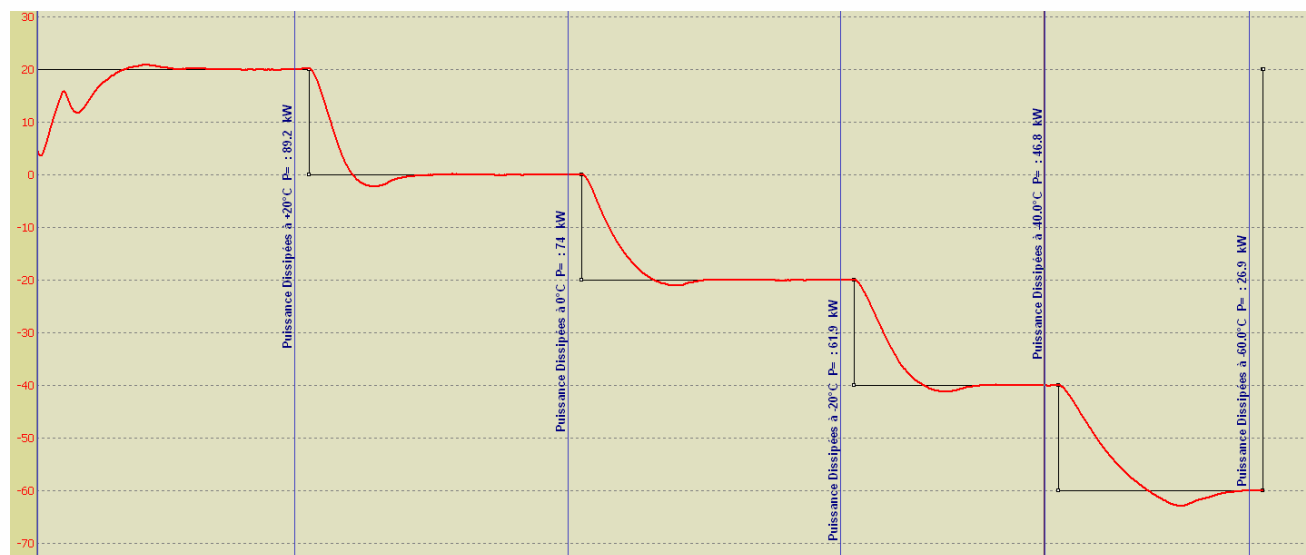
- from 20% to 95% humidity in 10 min at +60°C
- from 95% to 10% humidity in 10 min at +60°C

Homogeneity and Regulation

Temperature homogeneities (carried out with PT100 probes set at 20 cm from the walls)
below $\pm 2^\circ\text{C}$ up to +100°C

Temperature regulation

$\pm 0,5^\circ\text{C}$ after stabilization



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