

Climatic chamber 6.6 m³ with modular structure CM Type for test on batteries

PRODUCT LINE/TEMPERATURE ENVIRONMENTAL -RENEWABLE ENERGIES

This climatic chamber is designed for testing large battery packs. It is adapted to the needs of manufacturers, designers and users of high-power batteries, particularly in the **electric transport sector**.

This equipment is dedicated to performing thermal cycling tests **of large battery packs over long periods**. The main purpose of these tests is to assess and qualify the lifespan of accelerated aging battery packs.



With a useful volume of **6.6 m³**, this chamber has a **modular structure** and covers a temperature range from **-30°C to + 80°C**. The modular structure is made by the assembly of self-supporting panels, on customer site. This technology allows the implementation of large volume solutions, without constraint of access to the final installation location. The installation of the battery packs in the test chamber is carried out using a forklift. This solution has watertight passages and an overpressure valve. These various arrangements allow the installation of safety devices provided by the user (smoke or flame detection, nitrogen blanketing, high pressure extinguishing system, etc.).

This chamber benefits from **Spirale Vision** control and its quality of regulation. You can also be able to appreciate the recognized programming and archiving features of this control system. Spirale, already present in more than 6,000 environmental test chambers and test benches in the world, is the most intuitive and versatile human-machine interface on the market.

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Technical features

Characteristics :

Temperature range : from -30°C to +80°C

Volume : 6600 dm³

Dimensions (mm)	Width	Depth	Height
Useful	2000	2200	1500
Overall	2250	3200	1900



Options :

- ▶ Separate all-weather machinery (positioned at 10 meters)
- ▶ Overpressure valve
- ▶ Door opening system from the inside
- ▶ Portholes diameter 100 mm and 200 mm on each side of the chamber
- ▶ Emergency stop

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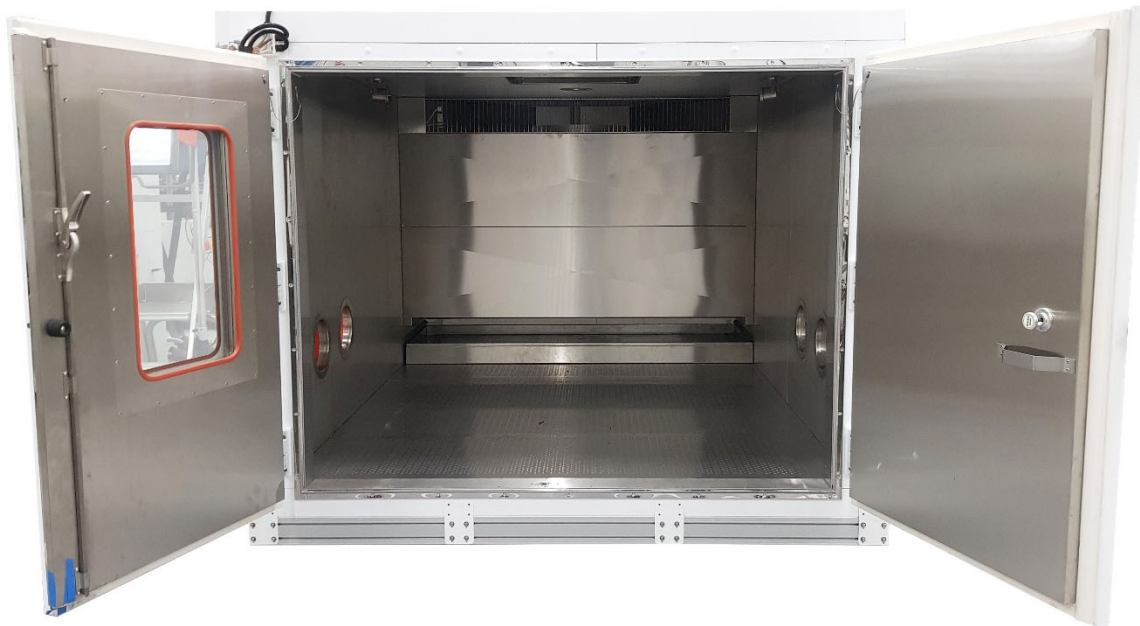
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Performances :

- ▶ 1°C average from +80°C to -30°C

Other tests:

- ▶ 1.5°C/min average between +65°C and -25°C (empty).
- ▶ 2°C/min average between +40°C and 0°C (empty).
- ▶ 0.4°C / min average between +65°C and -25°C with 1KWatts of dissipation and 750kg of aluminum

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