



▶ 1.1 m³ climatic chamber on a lift table for combined vibration, temperature, and humidity testing

This solution is aimed at labs and manufacturers that carry out tests in controlled environments, **especially in industries like aerospace and automotive where vibration conditions need to be simulated**. It allows testing of electronic components, delicate materials, or mechanical equipment **under extreme temperature, humidity, and vibration**. The goal is to make sure the products are reliable and meet required standards.

This equipment is used **for precise testing that accurately reproduces extreme climate and vibration conditions on components related to e-mobility**. Thanks to humidity generation **via dew point bath**, the climate conditions are exceptionally stable and precise. Removable mechanical interfaces allow the equipment **to be adapted to both vibration axes, as well as to the full range of customer vibration systems**, making it the most cost-effective, high-performance, and user-friendly solution compared to market standards.

Spirale Vision

This chamber benefits from the **Spirale Vision** control offering a high regulation quality. You would also appreciate the programming and archiving features this control system is known for. Spirale, already established 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:** -60°C to +200°C
- ▶ **Volume:** 1100 liters
- ▶ **Compatible with a wide range of vibration systems**

DIMENSIONS

Dimensions (mm)	Width	Depth	Height
Useful	1000	1100	1000
Overall	1460	3680	Min : 2670 Max : 3770

OPTIONS

- ▶ **Insulated stainless steel shutter** for using the chamber outside vibration mode (hot/cold/humid conditions)
- ▶ **Air extractor with motorized flaps**
- ▶ **Anchoring system for fluid and electrical harnesses** connected to the product

PERFORMANCES

- ▶ **Humidity range:** Temperature range from +10°C to +90°C. Relative humidity from 10% to 98% RH, limited by a dew point of +8°C
- ▶ **Admissible thermal dissipation at -40°C:** 4 kW

OTHER TESTS

- ▶ **Heating and cooling ramp between +150°C and -40°C:** average rate of 10°C/min with 25 kg of aluminum
- ▶ **Long-duration test at +85°C / 85% RH**



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