

Redefining
innovation
through advanced
**environmental
simulation**



Climats

| Environmental
test pilot

Smart innovation, — responsible vision

A responsible and sustainable industrial commitment

CLIMATS, a French manufacturer of environmental chambers for 50 years, designs tailor-made solutions that combine performance and respect for environmental standards. **As a manufacturer of climatic equipment in France,** our involvement is reflected in **responsible design choices** : equipment thought out to last, evolve, and adapt to the specific needs of each sector.

We give special attention to **energy consumption, simplified and accessible maintenance, and ease of use** of our machines. This allows our solutions to find their rightful place in production lines, laboratories, and research centers.

Our process is based on **close collaboration with our users.** Together, we refine configurations, adjust protocols, and evolve standards.

Our claim : to reveal the full potential of your simulation chambers.



Inspired by the climate, engineered with our technology



Climate simulation is our fundamental principle. Inspired by natural climatic phenomena, it drives the development of our equipment, enabling us to reproduce these extreme conditions with precision. We create high-performance, sustainable solutions, thought to meet the specific needs of each sector, while respecting our commitment to **local production, 100% made in France.**

We favour simple, modular structures that can be effectively adapted to specific needs without excessive use of resources. We have adopted a **climate-simulation** approach, drawing inspiration from natural dynamics to design our chambers. We develop equipment that **can reproduce climatic conditions** with precision and control.

Understanding the reality to shape the solution

In every cutting-edge sector, the test systems developed by CLIMATS are integrated into demanding and constantly evolving processes.



Aeronautics

Where extremes meet altitude

Every onboard component must stand up to extreme conditions of temperature, altitude and vibration. CLIMATS manufactures reliable test environments to qualify critical systems, from avionics to cabin equipment.



Space

In the realm of deep cold and the vast space vacuum

From thermal vacuum to intense radiation and extreme cycles, space testing pushes the limits of simulation. CLIMATS chambers provide precision support for satellite, control module and nanosatellite projects.



Automotive

Supporting reliability where it matters most

In both the automotive and railway industries, component reliability is essential. Climate, vibration, shock and humidity tests: our equipment validates the endurance of on-board systems, from engine control units to batteries.



Electronics & connectivity

Going deeper to expose the unseen

Electronic cards, sensors and modules are subject to high thermal and mechanical stresses. Our tests chambers enable the detection of invisible flaws and guarantee the long-term performance of connected systems.



Defences & security

End-to-end reliability with full traceability

Strength, robustness, resilience: military equipment must remain reliable in all situations. CLIMATS provides testing tools tailored to the regulatory and operational requirements of land, naval and aerospace defence.



Testing Laboratory

A unified base for trials tests

Versatility, precision, repeatability: testing laboratories require robust equipment which is easy to operate. CLIMATS offers calibrated solutions for certification, endurance testing and quality control campaigns.



Telecommunication

Signal reliability, everywhere and always

Telecom facilities need to operate 24/7 in environments that can be unpredictable. Our chambers test antennas, routers, and base stations to ensure stability, durability, and service continuity.



Green Energies

Testing for a sustainable tomorrow

From heat pumps to solar panels, every energy system must prove its durability over time. CLIMATS supports the renewable energy sector with chambers manufactured to test, secure and ensure the reliability of low-carbon solutions.



Spirale ✨

Start your journey as an environmental test pilot

Designed to control all CLIMATS chambers, whether laboratory, production or large volume, **SPIRALE is the software system that unifies, simplifies and makes every stage of your test campaigns more reliable.**

Whatever model is used, SPIRALE is based on a common platform, providing complete consistency across a diverse range of equipment. **This unique standard** enables training to be shared, protocols to be standardised and test histories to be centralised over the long term.

Behind its intuitive interface, SPIRALE offers a comprehensive and modular experience **designed for all profiles : operators, engineers, quality managers.** From profile setting to detailed analysis of results, each feature enhances rigour without complicating use.

Each platform upgrade benefits all users, **with regular updates and guaranteed compatibility over time.**



Friendly-user and intuitive

SPIRALE subjects the customer's product to the expected climatic conditions of a specific scenario. Everything can be **configured, visualised and reproduced.**

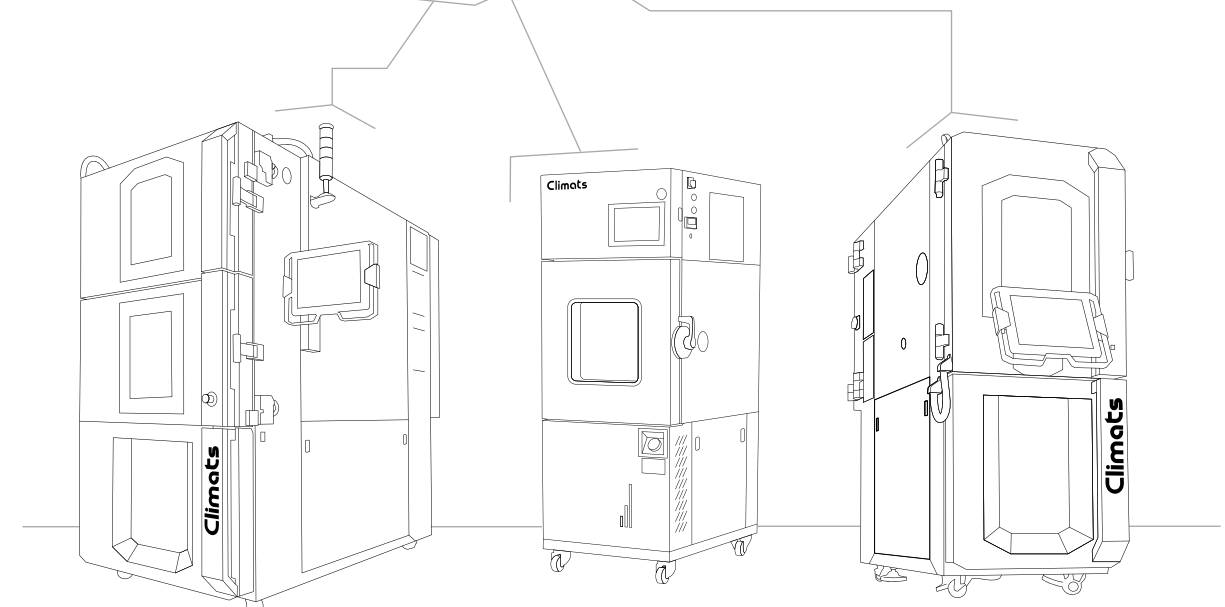
The software incorporates **simple and intuitive programming modes that are accessible to everyone and can simulate the requirements of any activity sector.**

SPIRALE integrates easily with existing information systems, facilitating remote control, automatic data retrieval, and export to standard formats.

Operators monitor their tests constantly thanks to ergonomics designed for intensive industrial use.

Complete traceability and exploitable data

- ✦ Scalable interface aligned with current standards
- ✦ Remote test control capabilities
- ✦ Compatible with all environmental chambers
- ✦ Automatic and secure storage of tests



A control and regulation system integrating the reference HMI for R&D and production

SPIRALE handles a range of test environments, from **research to production, unit testing to complex loop testing.**

Its multi-purpose nature is unparalleled: it is a **performance partner, a seamless interface** between the machine, data and humans, designed for the demands of laboratories and workshops alike.



The culture of customized solutions

Customization

Optimized facilities, fully customized chambers

We are all about customisation.

From R&D to industrialisation, from manufacturing to cabling, from assembly to testing, the entire CLIMATS site designs and manufactures variable geometry equipment using a process that is controlled from start to finish.

Every adaptation is based on **proven technical expertise and precise documentation of the choices made**. This approach guarantees **the quality, traceability and reproducibility** of each machine delivered.

Your customizable technology modules

Mechanical and structural adaptations

Our **customer-specific dimensions**, layouts, cutouts and portholes meet the **most rigorous standards**.

Temperature and humidity characteristics

Extreme ranges, very high relative humidity, thermal cycles defined according to specifications.

Custom software interfaces

Customization, product security and access rights control, adaptation to specific business lines, multi-site supervision and management, dedicated marketing protocols, and integration with customer tools.



Modular solutions

Each industrial project imposes its own constraints: the space is limited, the production rate is high, the climate requirements are unusual, the safety rules are strict, and the qualification protocols are rigorous. **Adaptation is an integral part of CLIMATS' engineering culture.**

Our equipment is based on a solid technological foundation, designed to be **modular, expandable, and reconfigurable**.



Applications

Solutions
for all cutting-edge sectors

Aeronautics

Test the strength of embedded systems against altitude, pressure, and temperature constraints.

Tested devices

- Avionics
- Flight sensors
- Helicopters
- Gyrolaser inertial navigation systems
- Drones
- Radar modules
- Civilian radar
- Cabin equipment

Standards

RTCA DO-160

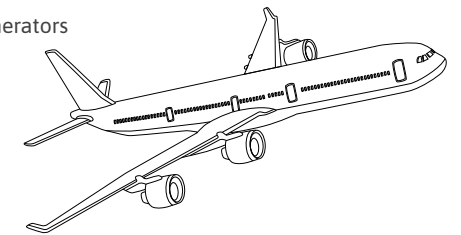
MIL-STD-810

ISO 7137

MIL-STD-202G

Chambers models

- Fast change rate test chamber (SPEEDCAL)
- Vibration test chamber (VIBCAL)
- Thermal Shock test chamber (SCAL)
- Altitude chamber (FCV/ FCVH / Customize)
- Temperature, Humidity test chamber (EXCAL)
- Hydrocarbons chamber
- Air generators



Types of tests



Temperature



Humidity



Vibration



Thermal shock



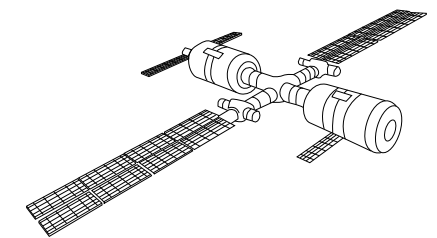
Altitude

Space

Replicate orbital conditions to guarantee reliability in thermal vacuum, vibration, and radiation.

Tested devices

- Satellites
- Rockets
- Electronics components
- Control modules
- Orbital station
- Nanosatellites



Types of tests



Vibration



Thermal vacuum

Standards

MIL-STD-1540

Chambers models

- Thermal vacuum chamber (TVC)
- Low-temperature chamber (LTC)
- Liquid nitrogen chamber

Automotive

Proving the performance of components in constantly changing environments, both on the road and on the rail.

Tested devices

- ECU
- Sensors
- Batteries
- Lighting systems
- Converters
- Cab seal testing
- Airbags
- Engine control units
- Electric motors
- Control units
- On-board equipment
- Signaling systems

Standards

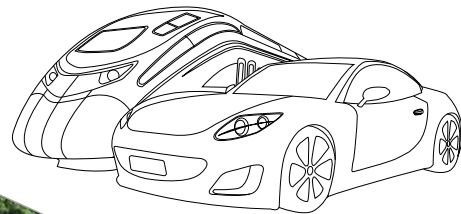
- ISO 16750
- SAE J1455
- LV 124
- USCAR
- BMW PR303
- PV 2005
- VDA 233-102

Types of tests

- Temperature
- Humidity
- Thermal shock
- Vibration
- Sunshine

Chambers models

- Test Battery tests (EXCAL)
- Vibration test chamber (VIBCAL)
- Solar simulation (EXCAL)
- Walk-in test chamber (WINCAL, Type G)
- Modular chamber (CM)
- Thermal Shock test chamber (SCAL)



Testing laboratories

Offer multi-purpose equipment for standardized, repeatable, and traceable testing campaigns.

Tested devices

- All types of environmental tests for industries
- Heat pumps
- Cement
- Glazing tests

Standards

- IEC 60068
- ISO 9227

Chambers models

- Vibration test chamber (VIBCAL)
- Temperature, Humidity test chamber (EXCAL)
- Laboratory test chamber (LABCAL)
- Modular chamber (CM)

Types of tests

- Temperature
- Humidity
- Vibration

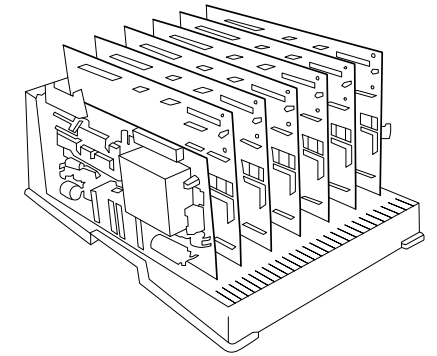


Electronics & connectivity

Ensure the durability of circuits, sensors, and connected devices subjected to severe cycles.

Tested devices

- Smartphones
- Laptops
- ATM's
- Printed circuit boards
- Embedded electronics
- Thermostats
- Presence sensors
- Security systems
- Audio equipment



Types of tests

- Temperature
- Humidity
- Burn-in
- Troubleshooting
- Thermal shock
- Freeze-Thaw

Standards

- IEC 60068
- JESD22
- NF EN 13383
- NF EN 1367-1
- JJF 1101
- MIL STD 883
- ISO 9227
- IEC 60068-2-78
- NF EN 14024
- IEC 60068-2-38
- NF EN 12 206
- CEKAL EN 1279-2
- NF EN 12371

Chambers models

- Laboratory test chamber (LABCAL)
- Vibration test chamber (VIBCAL)
- Dual-climate chamber
- Thermal Shock test chamber (SCAL)
- Walk-in test chamber (WINCAL, Type G)
- Air generator (GT-FC)
- Burn-in chamber

Defense

Test the equipment's resistance in critical contexts, when subjected to shocks, vibrations, and extreme conditions.

Tested devices

- Tactical radios
- Drones
- Night vision equipment
- Radar
- Onboard electronics

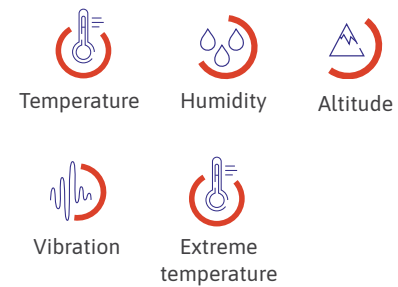
Standards

MIL-STD-810

MIL STD 883

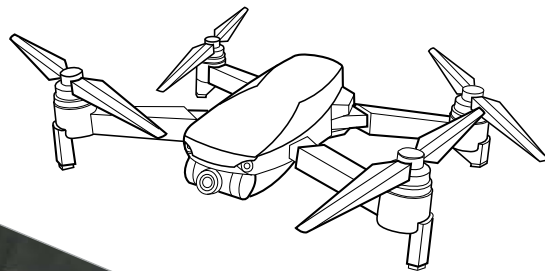
MIL STD 202G

Types of tests



Chambers models

- Fast change rate test chamber (SPEEDCAL)
- Laboratory test chamber (LABCAL)
- Vibration test chamber (VIBCAL)
- Thermal Shock test chamber (SCAL)



Green energies

Conducting tests on solar systems, batteries, and heat pumps to drive the energy transition forward.

Tested devices

- Solar panels
- Inverters
- Wind turbines
- Heat pumps

Standards

IEC 61215

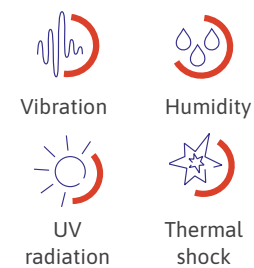
EN 14825

IEC 61730

NF EN 14511-3

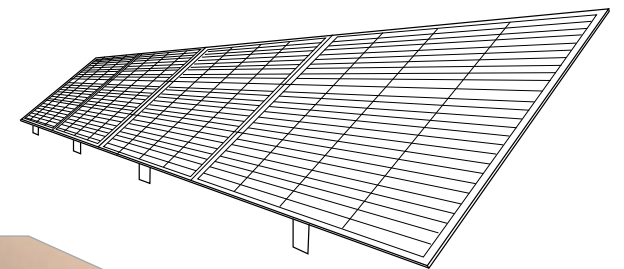
MIL STD 810/505.solar simulation

Types of tests



Chambers models

- Walk-in test chamber (WINCAL, Type G)
- Solar simulation (EXCAL)
- Modular chamber (CM)



Telecommunication

Simulate usage conditions to guarantee the stability, security, and performance of network infrastructures.

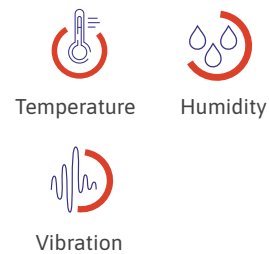
Tested devices

- Bases stations
- Routers
- Antennas

Standards

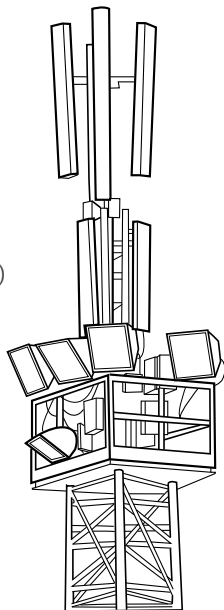
IEC 60068

Types of tests



Chambers models

- Vibration test chamber (VIBCAL)
- Temperature, Humidity test chamber (EXCAL)
- Walk-in test chamber (WINCAL, Type G)
- Thermal Shock test chamber (SCAL)



EXCAL³

The core line, where performance meets personalization

With 200 models and 8 volume options, we combine the power of standardized production with the flexibility of custom solutions, delivering efficient, tailored answers for every client.



R-744 (CO₂) : natural, efficient, compliant

- **Compliant with European Regulation 2024/573 : GWP = 1**
- **Optimizing Maintenance Costs :** Our new optimised refrigeration circuit completely eliminates the need for annual leak checks.
- **Extended temperature range :** The refrigeration circuit has been developed to allow the chambers to go below -40°C, reaching a minimum temperature of -50°C. This offers extended coverage for thermal testing.



Standard embedded technologies

CLIMATS know-how at the core for perfect control.

- Dual-flow ventilation for optimal heat exchange, ensuring multi-directional product exposure
- High-performance humidity control with direct measurement and low-pressure steam generation
- Flexible cooling options : choose between air or water
- Integrated 15" front-panel PC for intuitive control and visualization
- Variable cooling speed for enhanced performance
- Full customization with more than 200 available options



Range properties

- 8 Available volumes from 150 L to 1 900 L
- Minimum reachable temperature :
 - Down to -50°C with R-744 (CO₂) refrigerant
 - Down to -70°C with
 - R-449 A + R-469A refrigerents (low GWP)
 - R-449A + R-23 refrigerents (faster in cooling)
 - Down to -90°C with R449A + R23 refrigerents
- Maximum reachable temperature. +180°C (+250°C optional)
- Transition speed : From 2 °C to 25 °C/min
- Humidity range : Stable and reproducible between 5% and 98% for a temperature between +10°C and +95°C
- Temperature homogeneity in space. Up to +180°C excluding measurement uncertainty: ±0.4°C to ±1.5°C



Types of tests available

- Temperature (T)
- Temperature & Humidity (H)
- Dry heat
- Humid heat
- Low temperature
- Environmental Stress Screeing (ESS)
- Environmental cycles



User experience and intuitive design, driving your tests forward

- **See :** Window, integrated lighting, and a camera connected via Spirale for **real-time visual monitoring.**
- **Interact :** Side access on every lateral face, a mobile sensor for precise product regulation, and a connectivity panel for programmable power-up of your product.
- **Safety :** Spiral settings to limit usage ranges, safety thermostat, thermal fuse, door lock, integrated status indicator.
- **Implementing the test :** Removable shelf, casters and stabilizing jacks, 180° door, one-handed opening : smooth installation, easy handling.
- **Exploit :** Produce, record, and archive your tests. Exploit your results with the Spirale Vision embedded system.
- **Guarantee :** Ensure maximum sustainability by combining reliability and repairability.

SCAL

The thermal shock expert

Our solution enables you to subject your products to temperature testing in a **basket** that moves between different environments. There are **several configurations** available, depending on your needs: variable volume; vertical or horizontal layout; and one or two compartments, offering maximum flexibility. The basket can also perform **environmental stress screening (ESS) tests**, which is a real asset for adding versatility to your laboratory.



Control the shock, boost your testing performance

- **Alternating automatic transfer** of samples between the hot basket and the cold one
- Look at your products as they're being tested through the **window** on the hot basket and with the built-in lighting.
- **Interact with your products** using a double access point : side and basket.
- **Regulate using three sensors**, one per zone :
 - hot compartment,
 - hot and cold compartment
 - basket
- **Secure your tests** with devices that comply with European standards. These include a key-lockable VRT/shock mode and an emergency stop on the front panel, as well as automatic door locking during basket transfer to protect the user.
- **Intuitive programming with Spirale Vision :**
 - Standard shock mode
 - Shock mode with guaranteed holding time (wait for): The machine will maintain the product at the target temperature for the programmed holding time.
- **Energy Saving mode**, enables significant energy savings : from 40% to 70%.

Range properties

- Temperature range from **-90°C to +180°C**
- Basket with several compartments : **2, or 3 cabinets**
- **Vertical or horizontal shocks** (for heavy loads) with test volumes **from 65 to over 1200 liters**
- Transfer time between tanks : **10 sec ≤ X ≤ 30 sec** (depending on the size of the basket)

Types of tests available

- **Hot-cold**
- **Environmental Stress Screening (ESS)**



Flexible configurations and volumes tailored to your needs

From compact to extra-large : 7 families to fit your needs.

- **Custom configurations :** vertical or horizontal format, 2 or 3 cabinets (hot/cold/ambient), single or double basket to adapt the machine to your space and test volumes.
- **Extended capacity :** basket volumes from 65 to 1,500L, load capacity up to 300 kg, ideal for testing both lightweight components and heavy equipment.

- **A wide range of thermal tests :** Thermal shock and ESS (Environmental Stress Screening) mode with rapid temperature variation from +180 °C to -90 °C, featuring change rates of 10 to 30 °C/min depending on the model.
- **Flexible combined cycles :** link ESS and thermal shocks for personalized, high-complexity testing.

WINCAL

Your solution for large-scale environmental simulation

WINCAL is the CLIMATS range dedicated to **large-volume environmental chambers with a rigid structure**. Developed for large-scale industrial applications: batteries, onboard modules, motors, solar equipment, structural elements, etc., it offers exceptional thermal performance in volumes ranging from **2 m³ to 70 m³**.



Test on a grand scale, control every detail

- **Move around inside** : very large format for testing large parts, integrate your equipment thanks to a design adapted to heavy loads (500 to 1,000 kg/m², up to 3,000 kg/m² with casters)
- **Adapt the volume to your needs** : length, height, fully customizable configuration
- **Easy connection** : to your test benches or qualification lines
- **See your products** : via through the window, access via ramps, recessed floors, stainless steel shelves, and custom options
- **Move the system easily** : thanks to the structure mounted on casters
- **Optimize your test conditions** : with high-speed ventilation for consistency and responsiveness
- **Control humidity** : with low-pressure steam and precise measurement using a high-precision capacitive sensor

Options and customization

- Air condenser, neutral gas inerting, air extraction, oxygen analyzer
- Custom-made passages: round, rectangular, with side notches
- Single or dual doors, flush threshold, non-slip floor
- Option for remote machinery, dual doors

Range properties

- 5 Available volumes :
 - 2m³ / 4m³ / 8m³ / 12m³ / 16m³
 - Adaptable configurations with volumes up to 70 m³
- Minimum reachable temperature :
 - Down to -50°C with R-744 (CO₂) refrigerant
 - Down to -70°C with
 - R-449 A + R-469A refrigerents (low GWP)
 - R-449A + R-23 refrigerents (faster in cooling)
- Maximum reachable temperature : +180°C
- Transition speed : From 2 °C to 5 °C/min
- Humidity range : Stable and reproducible between 10% and 98% for a temperature between +10°C and +95°C
- Temperature homogeneity in space : Up to +180°C excluding measurement uncertainty : ±0.5°C to ±1.8°C

Types of tests available

Select your mode : **Thermal (T) or Thermal and Climate Control (H)**

- Low temperature
- Humid heat
- Dry heat
- Environmental Stress Screening (ESS)
- Environmental test cycle



Increased reliability thanks to a monobloc design

- Rigid welded structure ensuring **optimal sealing** and contributing to high performance in terms of temperature and humidity.
- **Monobloc design** integrating the machinery directly into the enclosure for **reduced footprint** and simplified set-up.
- Can be assembled in ringed sections, allowing for easy installation in confined spaces.
- Welded cabinet designed to **eliminate any risk of moisture infiltration into the insulation**.



Range properties

- 3 Available volumes : 30 L / 60L / 100 L
- Minimum reachable temperature :
 - Down to -50°C with R-744 (CO₂) refrigerant
 - Down to -70°C with R-449A + R23 refrigerants
- Maximum reachable temperature : +180°C
- Transition speed : From 3 °C to 6 °C/min
- Humidity range : Stable and reproducible between 10% and 95% for a temperature between +10°C and +95°C
- Temperature homogeneity in space : Up to +180°C excluding measurement uncertainty: ±0.5°C to ±2°C



Regulatory refrigerant

- **R-744 (CO₂)**, a natural, eco-friendly refrigerant, is now being used for testing at temperatures as low as -50°C. It is a natural choice that complies with **F-Gas regulations**.
- Thanks to its **GWP of 1**, it can be used after 2030 without regulatory restrictions.
- Our refrigeration unit minimizes the gas charge, eliminating the regulatory requirement for annual leak checks.



WEBSeason®

Measurement and regulation system with integrated WEBSeason® controller

- 7" screen integrated into the front panel for control, programming, and monitoring
- Protocol in SimServ text format for controlling the environmental test chamber via the Ethernet interface.

Types of tests available

- Low temperature testing
- Damp heat environmental testing
- Constant temperature testing
- Alternating temperature testing
- Damp test

Reduced size, simplified installation

- **Space optimisation** : it can easily be fitted into technical areas, on benches or work surfaces, without the need for any specific modifications.
- **Simplified connections** : the device is delivered ready for use, equipped with a 3.5 m cable and a single-phase CEE 16 A plug (230 V).
- **Adapt its use to your environment** : with the tabletop version or mobile version on a wheeled frame.
- **Simplify your tests** with remote control via Ethernet and the integrated control interface.
- **Total autonomy** : the air cooling system eliminates any dependence on a water network.

Standard embedded technologies

- **Optimized ventilation** : A back fan provides air circulation, blowing air through the perforated floor and sucking it in at the top to ensure even exposure of the product.
- **Precise humidity control** : A system that combines a psychrometric sensor for measurement and a humidification bath that is supplied with demineralised water for the controlled management of hygrometric parameters.
- **Built-in safety** : The independent temperature limiter is an essential component for safeguarding your equipment and ensuring the seamless execution of tests.
- **Facilitate set-up** with the standard integrated shelf, ergonomic handle, and 50 mm diameter partition passage.
- **Communicate** : Ethernet interface for remote control, integration into your network, and effective test monitoring.

Options and customization

- Water cooling for high ambient conditions
- Compressed air dryer to prevent condensation
- Easy maintenance and onboard diagnostic system

LABCAL

The chamber designed for lab testing

With a footprint of less than 1 m², this compact solution can easily be incorporated into any space. It is available as a mobile unit on a frame or as a tabletop model, combining ease of use with efficiency.



Spirale

The best choice for a better user experience with more features

- With a 12" touchscreen, the Spirale control interface offers **comprehensive monitoring** : a suite of applications for viewing, recording tests, and editing programs with ease.



Range properties

Vibration test chamber / Extra large Excal Chamber

- Minimum reachable temperature : -65°C to -90°C
- Maximum reachable temperature : +180°C (+250°C optional)
- Humidity range relative between 10% and 98% for a temperature between +10°C and +95°C
- Transition speed : upon request
- Temperature homogeneity in space : Up to +180°C excluding measurement uncertainty : ±0.5°C to ±1.8°C

Modular chamber (CM)

- Temperature range for modular chambers : -70°C to +90°C
- Humidity range relative between 20% and 90% for a temperature between +15°C and +60°C
- Transition speed : upon request
- Temperature homogeneity in space : Up to +180°C excluding measurement uncertainty : ±0.5°C to ±1.8°C

Vibration test chamber

Combined vibration, temperature, and humidity tests

This climate chamber is designed for **combined temperature, humidity and vibration testing**. It is compatible with various types of electrodynamic vibrators thanks to its removable floor and sealing, which ensure reliable mechanical integration.

It is combined with an electrodynamic shaker in a vertical position and/or a horizontal table.



Climate test chamber with test volume offset to the front. It should be combined with a vertical electrodynamic shaker.

Environmental chamber with a front-offset test volume, mounted on a lifting table offering vertical and horizontal movement, designed to integrate with a vertical electrodynamic shaker and a horizontal table.

Adaptable testing solutions for quick integration

- **Optimized connection** : The mechanical design enables direct integration with either a vibrating table or an electrodynamic shaker, ensuring a stable and precise connection.
- **Improved sealing** : A hermetic seal between the vibrator and the environmental chamber is guaranteed by the interchangeable drawer in the chamber base, which is equipped with an insulating bellows. This ensures the shaker can be integrated in different configurations.



Customized SOLUTIONS

Achievements focused on your specifications. Custom-sized enclosures designed from standardised sub-assemblies. This is a controlled, modular solution that combines a custom-made mechanical structure with reliable technological components



Extra large Excal Chamber

Horizontal test chamber with dual doors for oversized applications

- **Expandable capacity** : Its double front door and horizontal format make it easy to load and handle bulky products. Its innovative geometry provides full ergonomic access, making every step of your loading and unloading operations simpler and ensuring your equipment is handled smoothly and safely.
- **Full access to equipment** : The baskets are available in different widths, from 1000 to 2500 mm, allowing for useful volumes of between 2 and 4 m³.
- **Enhanced homogeneity** : The product's exposure is multi-directional thanks to the basket design and dual airflow.

Modular chamber

Customizable configurations for ultimate flexibility

- **Maximum modularity** : Configuration adaptable to any test volume, from 2m³ to 100m³.

- The panel structure allows the machine to be installed **without modifying the environment**, even in hard-to-reach spaces, making it a versatile and convenient option. Depending on installation constraints and accessibility requirements, the machinery can be integrated or offset.
- **A version equipped with an air flow control system** that allows tests to be carried out in a calm atmosphere, with vertical or horizontal flow, suitable for example for heat pump type tests.



Reliable assistance at every step of the lifecycle

Partnering with you from the initial project phase

Even before manufacturing, we provide a dedicated contact person to :

- Analyze your integration needs
- Prepare technical specifications
- Organize interfaces with your teams
- Anticipate installation and commissioning procedures

Each project benefits from clear management, including agreed-upon milestones, pre-delivery testing and comprehensive documentation.

A lasting relationship

Manufacturing test equipment requires meeting performance requirements. Installing the equipment, bringing it to life and adapting it over time involves establishing a long-term relationship.

Each project is considered a partnership between technical and human elements, with the process beginning well before commissioning and continuing well beyond. Our teams support customers by focusing on proximity, communication and anticipation.

From the initial exchange to operator training and from preventive maintenance to software upgrades, we are present and available throughout.





Dynamic synoptic : real-time diagnosis

The Spirale Vision system provides a detailed overview of the climatic chamber's operation, offering a dynamic, real-time visualisation. This interactive diagram enables you to monitor flows, component statuses and control parameters, facilitating the rapid identification of anomalies or deviations. Thanks to this interface, our technical teams can perform accurate preliminary diagnoses remotely.

An international after-sales support

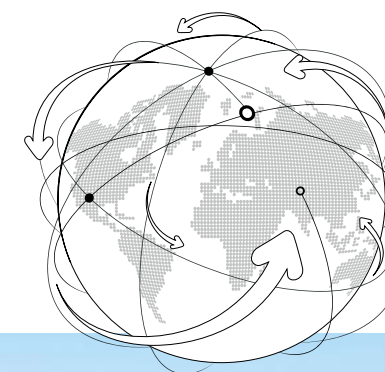
Our after-sales service covers the entire life cycle of your environmental test chambers and ovens, regardless of the brand. This includes preventive and corrective maintenance, troubleshooting, spare parts supply, retrofitting and performance optimisation. We also provide mechanical, electrical, refrigeration and IT solutions to customise your equipment for your specific requirements. We are committed to responsible environmental practices. We ensure the recovery and treatment of refrigerants in accordance with current regulations, the disposal of obsolete equipment and the treatment of used water.

Responsive support, available everywhere

-  Request handling
-  On-site or remote troubleshooting
-  Rapid delivery of spare parts
-  Retrofit and performance upgrades for your equipment

Premium service : responsiveness and efficiency for your tests

Climats as one of the worldwide leading climatic chamber supplier has its own service department in order to enable you to enjoy the best of our climatic chamber.



An international presence

At the heart of Climats' development strategy, we export through an intercontinental network of distributors. Trained in our technologies and committed to lasting relationships, our partners handle sales and technical support for our environmental equipment around the world.



Worldwide environmental testing:
A global network
of agents all around **30 countries**

Discover
all our environmental
testing solutions



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Environmental
test pilot