

Technical data

8 Test volumes 140 L, 220 L, 400 L, 540 L, 770 L, 1000 L, 1400 L, 1800 L	Temperature range from -90°C to +200°C
Regulation stability < ± 0,3°C	Humidity range from 10% to 98% (for temperatures from +10°C to +95°C)
Transition speed from 0.5°C/mn to 28°C/mn	Humidity stability regulation < ± 3%
Homogeneity < ± 1°C	
Dew point range from -5°C to +95°C	

Spirale Vision

- ▲ All the Excal² environmental test chambers are equipped with the new Spirale Vision software. More ergonomic, more intuitive, you can manage your machine efficiently.
- ▲ Choose the most suitable level of use: production level, standard level, laboratory level.
- ▲ With Spirale Vision you can control your equipment from an extra-large 15" touch screen
- ▲ Always available: recording mode, program editing and remote control via internet.
- ▲ The supervision function lets you manage all your equipment from one workstation



Expert in environmental climatic simulations

Climats has been a specialist in climatic testing for over 40 years and manufactures chambers able to simulate extreme environments to help you guarantee the best levels of performance, reliability and security of your products, while respecting European and international test standards.

Our «**Research and Development**» department works exclusively on quality and innovation and strives to improve the efficiency, the adaptability and the ergonomomy of all our product ranges.

Answering your needs is in our DNA. Climats offers products which are customized to continually adapt to your core business and your requirements.

100 % French design
Climats is a French company located near Bordeaux, where all of the production is designed, manufactured and assembled in its plant.

An international presence



EUROPE
ASIA
AMERICA
AFRICA

Export lies at the heart of the development of Climats and this is based on an intercontinental network of distributors. Our partners are trained in our technologies and have invested in a lasting alliance so they can sell our products and provide technical after-sales service for our climatic equipment all over the world.

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EXCAL²

ENVIRONMENTAL TEST
CHAMBERS
Environmental
climatic simulations



CREATOR
OF EXTREME

www.climats-tec.com

EXCAL²

ENVIRONMENTAL TEST CHAMBERS



Redesigned ergonomoy

- ▲ The new external dimensions of the 140 L and 220 L chambers mean they can be taken through standard size doors.
- ▲ User action zones are clearly identified in order to improve productivity and limit risks.



Improved performance

- ▲ The innovative aeraulics of the test cabinet significantly improves the air flow speed to obtain a natural homogeneity.
- ▲ The dedicated evaporators ensure an optimal air exchange and the weight is reduced by 40%



Efficient electronics

- ▲ The new electronic architecture using interconnected modules set as close as possible to the actuators simplifies maintenance operations.
- ▲ Rationalising the internal connections has given an incomparable flexible response.



Spirale Vision for faultless traceability

- ▲ Proof in pictures: the recording of photo sequences shows the impact of the test on your product.
- ▲ Your product is identified by reading barcode and QR code.



F-Gas Ready

- ▲ Excal² complies to the new G-gas regulations and respects the environment.
- ▲ The use of R449A gas in association with a new refrigerated circuit requires only one annual check.
- ▲ The GWP of R449A is 65% less than the GWP of R404A.

Faster

Excal² reaches 28°C/min

International testing standards

Excal² is adapted to the most complex test standards (IEC 60068-2-30 and IEC 60068-2-38)

Humidity

New humid generator and direct measurement by capacitive probe

After sales service

Our customer service will accompany you through the first steps, with setting up and instruction and also in the daily use of your chamber.

Excal²: Eco-responsible

The ENERGY SAVING mode automatically handles the START & STOP function.

The new refrigerated circuit **reduces energy consumption** for the same performance.

The redesigned test cabinet limits **the condensation water** pollution risk during the test.

The measurement of the temperature of inlet and outlet cooling water, **linked to a flow meter gives real time information on water consumption.**

Options

Over 80 coded options including:

- ▲ a camera
- ▲ a barcode reader

