

NEWSPACE MARKET · COMPANY PROFILE

The logo for Climats, featuring the word "Climats" in a white, sans-serif font. The letter "C" is stylized with a blue square background.

Climats

France · climats-tec.com/en

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WITH DATASHEETS

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as of 20 August 2026

A large, faint, stylized graphic of an eye or a camera lens, composed of concentric arcs and a central circle, positioned on the right side of the page.

ABOUT

Climats

Climats was founded in 1974 and has spent over 50 years designing and manufacturing environmental simulation equipment in France. The company offers roughly 300 chamber models across 8 volume ranges, spanning standard climatic/thermal-shock chambers to fully customized solutions such as thermal-vacuum chambers (TVC) and space simulators. Climats serves aeronautics and space, automotive/mobility, electronics and connectivity, defense, telecommunications, renewable energy, and test-laboratory markets. It operates a 10,000 sq m manufacturing facility in Martillac, France.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Consultation appointment

Climats offers consultation appointments with its experts to discuss customer needs and provide tailored solutions.

Product catalogue



CLIMATS

Climats EXCAL3 1000 Environmental Test Chamber

A universal environmental test chamber with 1000 liters internal volume, offering temperature ranges down to -85°C and various cooling/heating rates.

Internal dimensions (W x D x H)	1000mm x 1000mm x 1000mm
External dimensions (W x D x H)	1285mm x 2325mm x 2165mm
Internal volume	1000 LITERS
Minimum temperature	-50°C (EXCAL 10052-T/H, EXCAL 10053-T/H), -70°C (EXCAL 10023-T/H), -75°C (EXCAL 10024-T/H,
Rate of cooling (IEC 60068-3-5)	4 K/min (EXCAL 10052-T/H), 13.5 K/min (EXCAL 10053-T/H), 2 K/min (EXCAL 10023-T/H), 4.5 K/
Rate of heating (IEC 60068-3-5)	3.8 K/min (EXCAL 10052-T/H), 12 K/min (EXCAL 10053-T/H), 4.5 K/min (EXCAL 10023-T/H), 6.5
Condenser type	A/W (Air/Water) or W (Water)

price on request



CLIMATS

Climats EXCAL3 140 Environmental Test Chamber

A compact environmental test chamber with 151 liters internal volume, offering temperature ranges down to -80°C and various cooling/heating rates.

Internal dimensions (W x D x H)	540mm x 400mm x 700mm
External dimensions (W x D x H)	783mm x 1634mm x 1842mm
Internal volume	151 LITERS
Minimum temperature	-50°C (EXCAL 1451-T/H, EXCAL 1452-T/H), -70°C (EXCAL 1421-T/H), -80°C (EXCAL 1423-T/H*)
Rate of cooling (IEC 60068-3-5)	7 K/min (EXCAL 1451-T/H), 11 K/min (EXCAL 1452-T/H), 5 K/min (EXCAL 1421-T/H), 12 K/min (E
Rate of heating (IEC 60068-3-5)	6.5 K/min (EXCAL 1451-T/H), 15 K/min (EXCAL 1452-T/H), 5 K/min (EXCAL 1421-T/H), 15 K/min
Condenser type	A/W (Air/Water)

price on request



CLIMATS

Climats EXCAL3 220 Environmental Test Chamber

A compact environmental test chamber with 227 liters internal volume, offering temperature ranges down to -80°C and various cooling/heating rates.

Internal dimensions (W x D x H)	540mm x 600mm x 700mm
External dimensions (W x D x H)	783mm x 1912mm x 1842mm
Internal volume	227 LITERS
Minimum temperature	-50°C (EXCAL 2251-T/H, EXCAL 2252-T/H), -70°C (EXCAL 2221-T/H), -80°C (EXCAL 2223-T/H, EXC
Rate of cooling (IEC 60068-3-5)	4.2 K/min (EXCAL 2251-T/H), 10 K/min (EXCAL 2252-T/H), 5 K/min (EXCAL 2221-T/H), 10 K/min
Rate of heating (IEC 60068-3-5)	4.5 K/min (EXCAL 2251-T/H), 14 K/min (EXCAL 2252-T/H), 5 K/min (EXCAL 2221-T/H), 14 K/min
Condenser type	A/W (Air/Water)

price on request



CLIMATS

Climats EXCAL3 770 Environmental Test Chamber

A high-performance environmental test chamber with 769 liters internal volume, offering temperature ranges down to -90°C and various cooling/heating rates.

Internal dimensions (W x D x H)	900mm x 950mm x 900mm
External dimensions (W x D x H)	1181mm x 2279mm x 2064mm
Internal volume	769 LITERS
Minimum temperature	-50°C (EXCAL 7752-T/H, EXCAL 7753-T/H), -70°C (EXCAL 7723-T/H), -75°C (EXCAL 7724-T/H), -8
Rate of cooling (IEC 60068-3-5)	5 K/min (EXCAL 7752-T/H), 15 K/min (EXCAL 7753-T/H), 4 K/min (EXCAL 7723-T/H), 7 K/min (EX
Rate of heating (IEC 60068-3-5)	6.3 K/min (EXCAL 7752-T/H), 16 K/min (EXCAL 7753-T/H), 5 K/min (EXCAL 7723-T/H), 7 K/min (
Condenser type	A/W (Air/Water) or W (Water)

price on request



CLIMATS

Environmental Stress Screening Chamber Type E1 (<3m³)

ESS thermal chamber, -80°C to +200°C, up to 20°C/min ramp for on-board electronics reliability testing.

Temperature Range	-80°C to +200°C (+250°C on request)
Volume	Less than 3m³ (E1 Type)
Absorbed Dissipative Power	Over 30kW
Ventilation	Greater than 2m/s
Noise Level	<70 dBA (Energy Saving mode)
Speed +90°C to -55°C	>20°C/min
Speed +80°C to -40°C (130kg load)	>20°C/min

price on request [datasheet](#)



CLIMATS

Environmental Test Chamber for Battery Testing

Thermal test chamber for battery safety testing, -90°C to +220°C, with fire/explosion/outgassing protection.

Temperature Range	-90°C to +220°C
Volume	Few m³ to several m³
Display	15" touchscreen
Energy Savings	≥40% (Energy Saving mode)
Safety Features	Nitrogen inerting, O2 analyzer, explosive gas detector, pressure relief, smoke/gas/flame d

price on request [datasheet](#)



CLIMATS

Environmental Test Chamber for Photovoltaic (PV) Panel Testing

Environmental test chamber built to standard test protocols for photovoltaic module durability and power qualification.

Application	Photovoltaic (PV) module environmental and power qualification testing
Handling system	Adaptive cart system for module loading/storage
Power supply integration	Continuity and power-output testing via Spirale Vision control
Control system	Spirale Vision, 15-inch touchscreen

[price on request](#) [datasheet](#)



CLIMATS

Excal GT-FC Air Generator

Localized thermal conditioning air generator, -70°C to +200°C, up to 32 Nm³/h, for electronic component testing.

Temperature Range	-70°C to +200°C
Air Flow	up to 32 Nm³/h
Temperature Stability	±0.1°C
Average Temperature Variation	>120°C/min
Flexible Hose Length	2200 mm (±100)

[price on request](#) [datasheet](#)



CLIMATS

EXCAL³

EXCAL³ is a modular climatic test chamber range covering temperatures from -90°C to +180°C with rapid ramp rates up to 25°C/min, used for environmental qualification testing from I

Available volumes	150 L / 225 L / 400 L / 540 L / 770 L / 1,000 L / 1,400 L / 1,900 L
Minimum accessible temperature	Up to -50°C with fluid R-744 (CO₂); Up to -65°C / -90°C with fluids R-449A / R-469
Maximum accessible temperature	+180°C (+250°C optional)
Temperature variation speed	Between 2°C/min and 25°C/min
Relative humidity range	5 to 98%RH at +10°C to +95°C
Temperature homogeneity in space	Up to +180°C (°C), excluding measurement uncertainty: ±0.4°C to ±1.5°C
Thermal compensation	From 1,000W to over 10kW

[price on request](#) [datasheet](#)



CLIMATS

Extreme 320

Extreme 320 is a climatic test chamber from Climats equipped with the Spirale touchscreen control system, offering multiple user levels and specialized cycle modes for extreme-temp

Temperature Range	+180°C to -90°C (+200°C to -100°C optional)
Temperature Homogeneity	±0.5°C to ±1.5°C; ±0.3°C stability
Chamber Volume	320 dm³
Useful Dimensions (WxDxH)	750 × 500 × 850 mm
Footprint	Less than 2.5 m²
Ventilation Speed	Exceeds 2 m/s (adjustable)

[price on request](#) [datasheet](#)



CLIMATS

High-Temperature Thermal Chamber ESS +265°C

Extreme high-temp ESS chamber, -80°C to +265°C, for electronic board qualification in extreme environments.

Temperature Range -80°C to +265°C

Speed Variation 10°C/min linear from +200°C to -40°C, with 10 kg of PCBs

[price on request](#) [datasheet](#)



CLIMATS

Hydrocarbon Safety Chamber (MIL-DO-160)

Secure hot-cold chamber for kerosene-filled aviation fuel tank testing, -70°C to +180°C, per MIL-DO-160.

Temperature Range -70°C to +180°C

Speed Variation 10°C/min average from +70°C to -55°C (30kg load, 1kW dissipation)

Standard MIL-DO 160 military and civil aeronautical standard

Useful Dimensions (WxDxH) 1000 × 1000 × 1000 mm

[price on request](#)



CLIMATS

LABCAL

LABCAL is a benchtop temperature and humidity test chamber for rapid climatic cycling to detect defects or determine product shelf life.

Available Volumes 20 L, 30 L, 60 L, 100 L

Temperature Range -70°C to +180°C

Relative Humidity Range 10 to 95% RH (for temperatures +10 to +95°C)

Temperature Homogeneity ±0.5 to ±2°C at +180°C

[price on request](#) [datasheet](#)



CLIMATS

Modular Chamber (CM) Volume over 3m³

The Modular Chamber (CM) is a custom-built environmental test chamber with volumes ranging from 8 to 100 m³, capable of temperatures from -70°C to +80°C. It features a modular pane

Volumes from 8 to 100 m³

Temperatures from -70°C to +80°C

Working temperatures (max) +80°C

[price on request](#) [datasheet](#)



CLIMATS

Modular Chamber for Burn-In (RELY STATION)

Modular burn-in/ESS chamber for electronic control racks, 0°C to +70°C, combines burn-in with environmental testing.

Temperature Range	0°C to +70°C
Speed Variation	3°C/min average (300 kg cabinets, 6 kW dissipation)
Useful Dimensions (WxDxH)	3000 × 7000 × 2750 mm

[price on request](#) [datasheet](#)



CLIMATS

SCAL CTH2

SCAL CTH2 is a climatic test chamber equipped with the Spirale touchscreen control system for programmable temperature/humidity cycling and shock/VRT reproducibility testing.

Touchscreen	Extra-large 15" touchscreen
Levels of use	Production, Standard, Laboratory
Tracking alarm	Shock or VRT mode to ensure reproducibility of tests
Pre-treatment/post-treatment	Programmable on Spirale Vision, to temperature condition or dry samples at the beginning a
Automatic defrost	Spirale Vision optimizes the cycle so defrosting is carried out correctly without disturbi
Program creation	Standard mode for easy program creation
Step time mode	Time-optimized or 'guaranteed step time' mode (Wait for mode) to guarantee a programmed st

[price on request](#)



CLIMATS

SCAL CTH3/CTY Thermal Shock Chamber (3 environments)

3-zone thermal shock chamber (hot/cold/ambient transition), 70-1500L, -90°C to +180°C, MIL-STD compliant.

Temperature Range	-90°C to +180°C (+220°C optional)
Test Volume (CTH3 Horizontal)	70-1500 liters
Test Volume (CTY Vertical)	up to 120 liters
SCAL 1000CTH3-22 Carrier Volume	1000 L
Standards Compliance	DIN-IEC-60068-2-14, JESD22-A104D, MIL-STD-202G/750E/810G/883H

price on request



CLIMATS

SCAL CTK

A thermal shock/climatic test chamber (SCAL CTK) equipped with the Spirale control system, offering multi-level operation and advanced test cycle management for reproducible enviro

SCAL 230CTK7.5 Temperature Range	-80/+180°C
SCAL 300CTK7.5 Temperature Range	-85/+180°C
SCAL 500CTK15 Temperature Range	-90/+180°C
Hot Cabinet Range (all models)	+60/+180°C
Standards Compliance	DIN, IEC 60068-2-14, JESD22-A104D, MIL-STD-202G, MIL-STD-750E, MIL-STD-810G, MIL-STD-883H

price on request



CLIMATS

SCAL-CTR

SCAL-CTR is a vertical thermal shock test chamber controlled via the Spirale touchscreen interface, used to subject samples to rapid temperature cycling for qualification and relia

Display	Extra-large 15" touchscreen
Usage levels	Production, Standard, Laboratory
Tracking alarm	CHoc or VRT mode, for reproducibility of tests
Pre-treatment/post-treatment	Programmable on Spirale Vision, to temperature condition or dry samples at start/end of cy
Automatic defrost function	Spirale Vision optimizes the cycle so defrosting does not disturb sample temperature
Standard mode	Easy program creation
Time-optimized mode	Guaranteed step time ('Wait for' mode) regardless of number of samples on board

price on request



CLIMATS

TVC Thermal Vacuum Chamber / Space Simulator

Customized thermal-vacuum chamber for space qualification testing, achieving vacuum down to ~10-7 mbar and -185 to +165 deg C.

Vacuum Level	Down to ~10-7 mbar
Temperature Range	-185 to +165 deg C
Cooling Method	Liquid nitrogen circulation
Options	Infrared radiation simulation, spatial temperature-gradient simulation
Application	Satellite component and payload qualification testing

price on request



CLIMATS

Volume over 3m³ Rigid Structure Type G

The CLIMATS Type G environmental test chamber offers large test volumes (3 m³ to 100 m³) and a wide temperature range (-70°C to +150°C) for testing large samples.

Volumes	from 3 m3 to 100 m³
Temperature	from -70°C to +150°C
CLIMATS metallic structure enabling to function	up to +150°C (max)

price on request [datasheet](#)



CLIMATS

WINCAL

WINCAL is a rigid-structure walk-in environmental test chamber offering large standard test volumes with wide temperature and humidity ranges for testing voluminous items.

Chamber type	Walk-in chamber, rigid structure
Standard test volumes	2 m3, 4 m3, 8 m3, 12 m3, 16 m3 and up to 70 m3
Temperature range	-70°C to +150°C
Extended temperature range (optional)	-80°C to +200°C
Relative humidity	+10% to +98%

price on request [datasheet](#)

Contact Climats

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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