



Climate Test Chamber

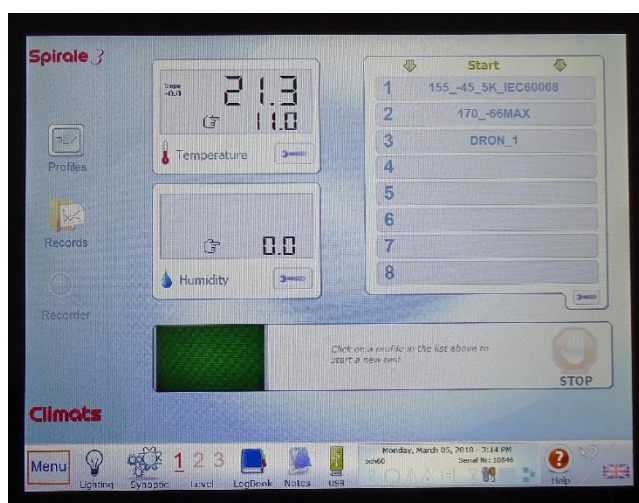
Climats Excal 1421-HE

Climats

- Easy access on network
- Full control
- 3 operating modes:
 - *Production mode*: simple, clear and functional
 - *Laboratory mode*: oriented to advanced tests combining external means
 - *Standard mode*: multipurpose panel for the optimum exploitation of the equipment
- **Temperature control in the range of $[-70^{\circ}\text{C}; +180^{\circ}\text{C}]$**
- **Humidity control (above 0°C)**
- An automatic message indicates the end of the test and an alarm



Climats' Excal series Test Chamber can simulate the extreme thermal environment between -70°C and $+180^{\circ}\text{C}$ with humidity control. The system is handled with a 15 inch diagonal adjustable multitouch screen, 2 USB ports and a network (Ethernet) access. Spirale 3 runs on Windows 7 operating system.



Specification

- 3 portholes:**

Left side 1x 16 cmØ

Right side 1x 16cmØ

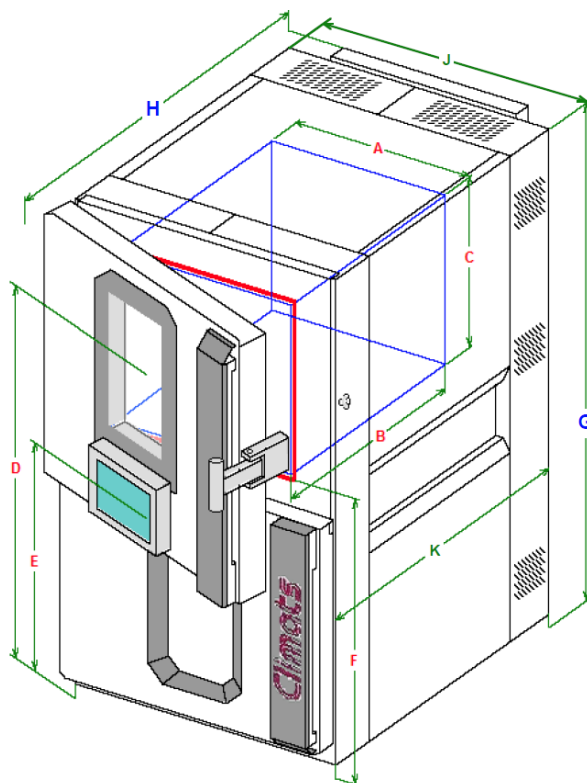
1x 11cmØ



- 4 programmable units** with input/output signal
- Independent **PT100 temperature sensor**, which is suitable for controlling the chamber
- Controllable electric door lock
- Factory calibration certificate** for several temperatures in the middle of the empty chamber
- CE certificate**



Volume	137.5 L	
Internal dimensions	A 550 cm	D 1315 cm
	B 500 cm	E 970 cm
	C 500 cm	F 1080 cm
Window size	35 cm x 38 cm	
Inner shelf	stainless steel shelf with 3 x 12 kg loadability	
Interior lighting	Yes	
Adjustable temperature range	[-70 °C; +180 °C]	
Relative humidity fluctuation	maximum ±3%	
Temperature fluctuation	±0.4%	
Cooling mode	Water cooling	
Permissible heat dissipation in the chamber at 20 °C	1000 W	
Change speed (according to IEC 60068-3-5, in the middle of the empty chamber)	minimum 5 °C/minute or faster	



Climate chamber accuracy values

The following tables shows the maximum deviations of the chamber parameters. These measurements are regularly determined using calibrated instruments that comply with current legislation and regulations.

Humidity mode					
Set- point		Display		Standard value	
(°C)	(%)	(°C)	(%)	(°C)	(%)
20	50	19.7...20.3	48.6...51.4	19.6...20.4	48.1...51.9
20	90	19.7...20.3	87.6...92.4	19.6...20.4	86.1...93.9
50	20	49.7...50.3	19.5...20.5	49.6...50.4	19.3...20.7
50	50	49.7...50.3	48.9...51.1	49.6...50.4	48.4...51.6
50	90	49.7...50.3	88.1...91.9	49.6...50.4	87.1...92.9
80	20	79.7...80.3	19.6...20.4	79.6...80.4	19.4...20.6
80	50	79.7...80.3	49...51	79.6...80.4	48.7...51.3
80	90	79.7...80.3	88.4...91.6	79.6...80.4	87.6...92.4

Dry mode		
Set- point	Display	Standard value
(°C)	(°C)	(°C)
-60	-60.3...-59.7	-60.4...-59.6
-40	-40.3...-39.7	-40.4...-39.6
-10	-10.3...-9.7	-10.4...-9.6
20	19.7...20.3	19.6...20.4
40	39.7...40.3	39.6...40.4
60	59.7...60.3	59.6...60.4
100	99.7...100.3	99.6...100.4
125	124.7...125.3	124.6...125.4