Ineltec

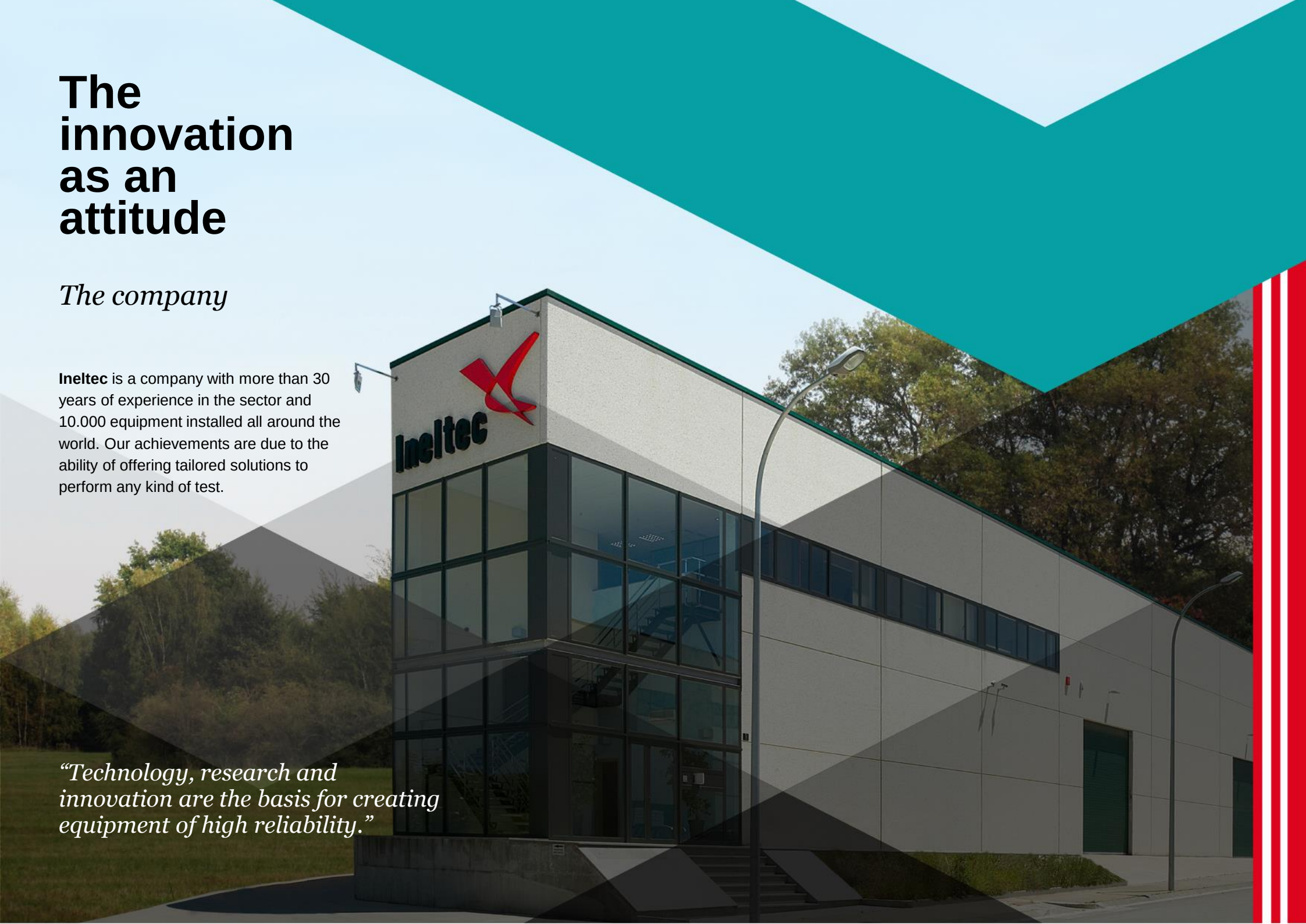
Thermal shock chamber

CCHT series

The innovation as an attitude

The company

Ineltec is a company with more than 30 years of experience in the sector and 10.000 equipment installed all around the world. Our achievements are due to the ability of offering tailored solutions to perform any kind of test.



“Technology, research and innovation are the basis for creating equipment of high reliability.”

Model

Thermal shock
Chamber of the CCHT series

Our range of thermal shock chamber
of the CCHT series
has different volumes.

Model

equipment description

The thermal shock chamber of CCHT series simulates sharp temperature changes.
It is build in **horizontal** or **vertical structure** depending on specifications.

The maximum temperature ranges in standard models are from -60ºC To +180ºC.

We also design tailored equipment according to the specifications, modifying or broadening the standard characteristics.

Thermal shock chambers are used mainly in the aerospace, electronics and railway sectors among others.

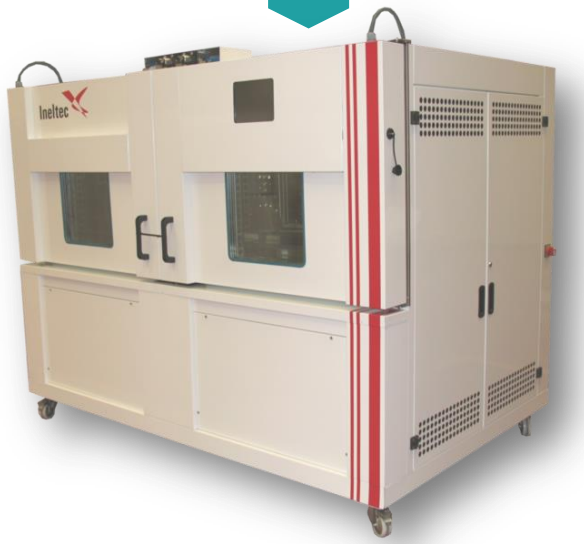
Volumes

01	16 liters
02	64 liters
03	166 liters

01

02

03



Sectors

Aerospace,
Aeronautical,
Automotive,
Railway,
Naval

Luminary

I+D,
Technological
centers,
Universities,
Laboratories

R+D,
Technological
centers,
Universities,
Laboratories

Defense,
Armament

Mineral
Ironwork,
Galvanic,
Metallurgic

Standards

NFC 20-605	MIL-STD 810	MIL-STD 883	MIL-STD 202	NFC 20-705	CEI 68.2.14	IEC 68.2.27	PE 25 Rev.4	EN 14066	PE 31 Rev.1	EN 14617-6
EN 12371:02	EN 60068-2-14	EN 12975	ISO 10545-9	UNE 67 001	EN 13687-5	EN 13687-2	NF EN 1183	NF EN ISO 7459	ISO 718	ASTM C1525
ASTM D7051	ASTM C1171	ASTM C600-85	ASTM C149-86	ASTM D2511	ASTM C554-93	ASTM C484-99	ASTM C385-58	JESD22-A106	EIA-364-32	MIL-DTL-38999
TIA/EIA-455-71	MIL-PRF-85045	DIN 40046 - Na	IEC 60068-2-14	…						

Features of the equipment

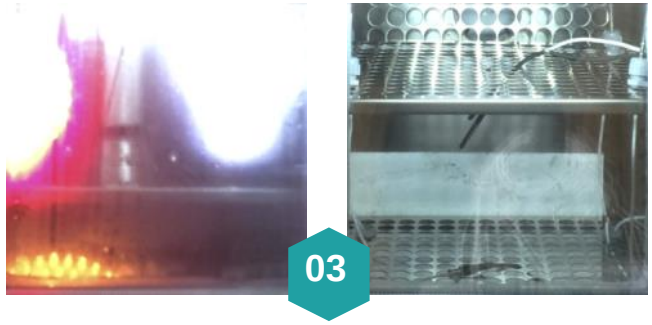
construction

01/ interior/exterior

The interior is built in stainless steel and the exterior in a white aluminum plate.

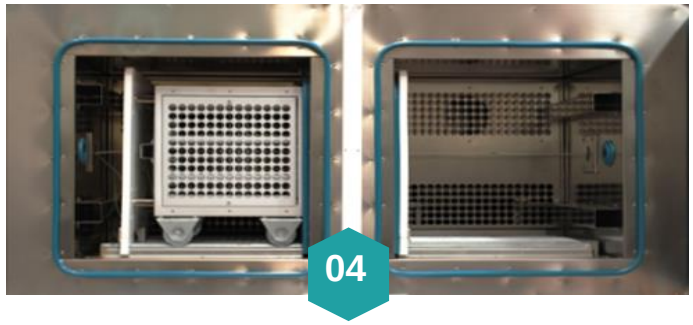
02/ mobility

The machine provides 4 multidirectional wheels with break device.



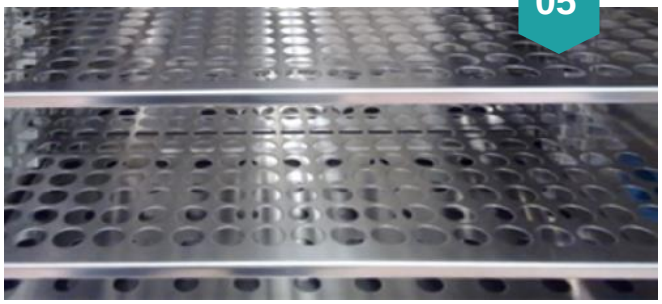
03/ observation windows

At the door, it is placed a polycrystalline observation window to see inside the chamber.



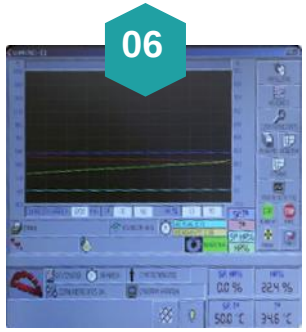
04/ test platform

It is made of aluminum in basket with a frontal door. The test platform is moved from a compartment to another through a pneumatic cylinder horizontally or vertically depending on specifications.



05/ trays

It is included 2 sample holder trays that are adjustable in its height and that are able to stand up to 50Kg



06/ control system

The touch screen PC is simple and intuitive and allows the programming, acquisition, recording and controlling of all the variables.

Features of the equipment

Standard functions

CCHT Model	Temperature		Time transition of the platform	Platform movement *Under request	Dimensions HxWxD ((mm) *approx		Weight approx
	-40ºC	-60ºC	≤ 10 Seconds	Horizontal			
Vol. Liters	+180ºC	+180ºC		Vertical	Test platform	Exterior	Kg.
16	*	*	*	*	250x250x250	1800x1400x1300	450
64	*	*	*	*	400x400x400	1800x2100x1500	650
166	*	*	*	*	550x550x550	1800x2100x1500	800

In all volumes

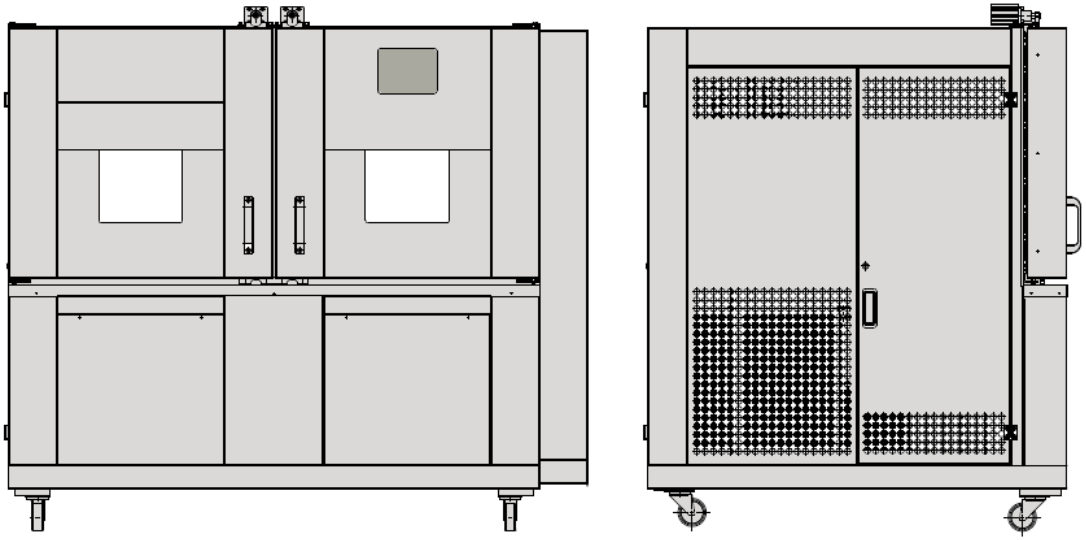
Resolution
Temp. 0,1ºC

Accuracy
Temp. ±1ºC max.

Other characteristics under request

Features of the equipment

Lateral / frontal Drawing



Electric consumption and noise level

CCHT Model	Connection voltage and power	Maximum consumed Power	Heating power	Noise level
Vol. Liters	400V III+TT	Kw	Kw	<55
	50 Hz			dB
16	*	7,5	4,5	*
64	*	15	7,5	*
166	*	20	9	*

Control system

Touch screen PC

Characteristics

01	USB
02	Ethernet – RJ45
03	Wi-Fi
04	CF Socket
05	VGA Com.
06	RS 232 Com.
07	PS/2

software/ use

With the integrated PROCAM-WIN software, it is possible to do the programming, acquisition, record, control and result analysis.

software/ characteristics

1/ Manual or automatic programming.
2/ Start programming in a specified day and hour.
3/ It allows making notes during the tests.
4/ Different access levels
5/ Maximum 11 operators
6/ More than 100 programs
7/ 100 segments maximum per program
8/ Enchained up to 4 programs.
9/ Number of programming cycles from 1 to 999999 or infinite
10/ Visualization and recording of the performed tests by a table or graphic.
11/ Excel or similar export
12/Configuration of the maximum and minimum alarms, for temperature limits in each segment.
13/ Control in the distance by Ethernet, WIFI and WEB

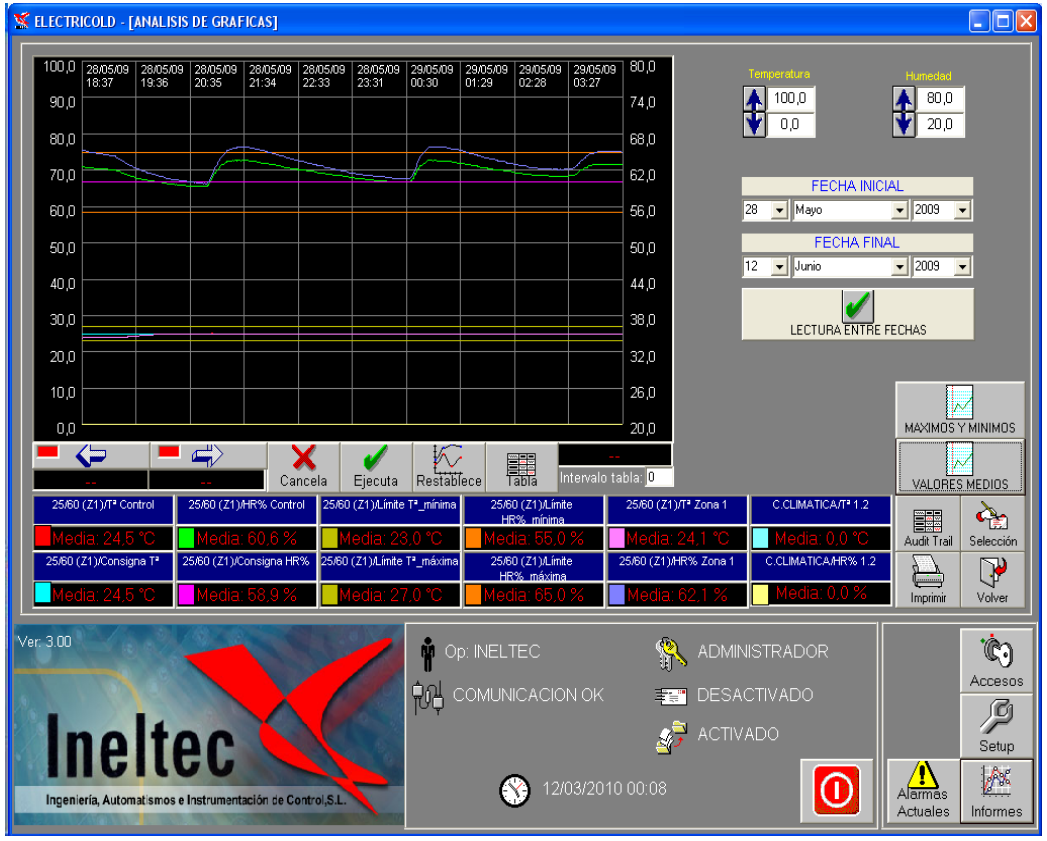
Control system

software/ screens

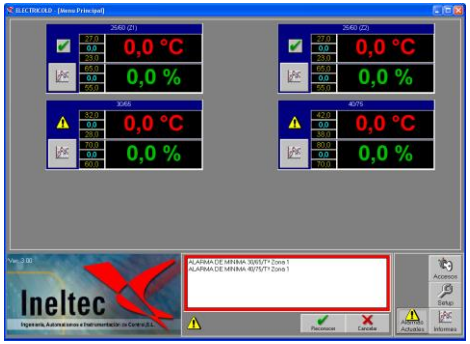
Main menu

Settings

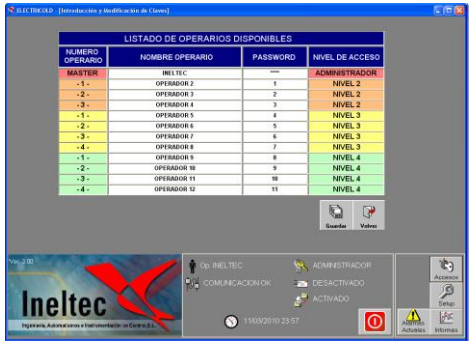
Software 21CFRV3 / historical



Alarms



Access



International presence

Range of products

ES
Simulation equipment


Climatic chambers


Modular chambers


Thermal shock


Combined tests


Specials


Stability


Generator groups


Calorimetric


Corrosion - combined


Corrosion


Frost / Defrost


Tightness – rain


Tightness – air/wind


Freezer cabinet

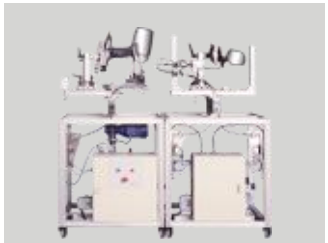

Thermostatic bath


Furnace


Heating

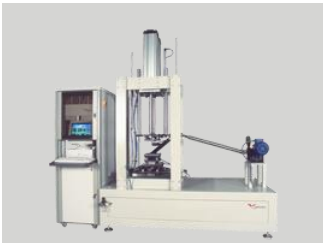
Range of products

BE
Testing bench


Fatigue endurance


Characterization


Pulsating pressure


Rupture


Bursting


Liquid Thermal Shock


Stardardization


Resistance to the fire - I


Resistance to the fire - II


Reaction to the fire - I


Reaction to the fire - II

MC
Measurement and control


Artificial vision - I


Artificial vision - II


Artificial vision - III


End of line control - I


End of line control - II

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