Ineltec

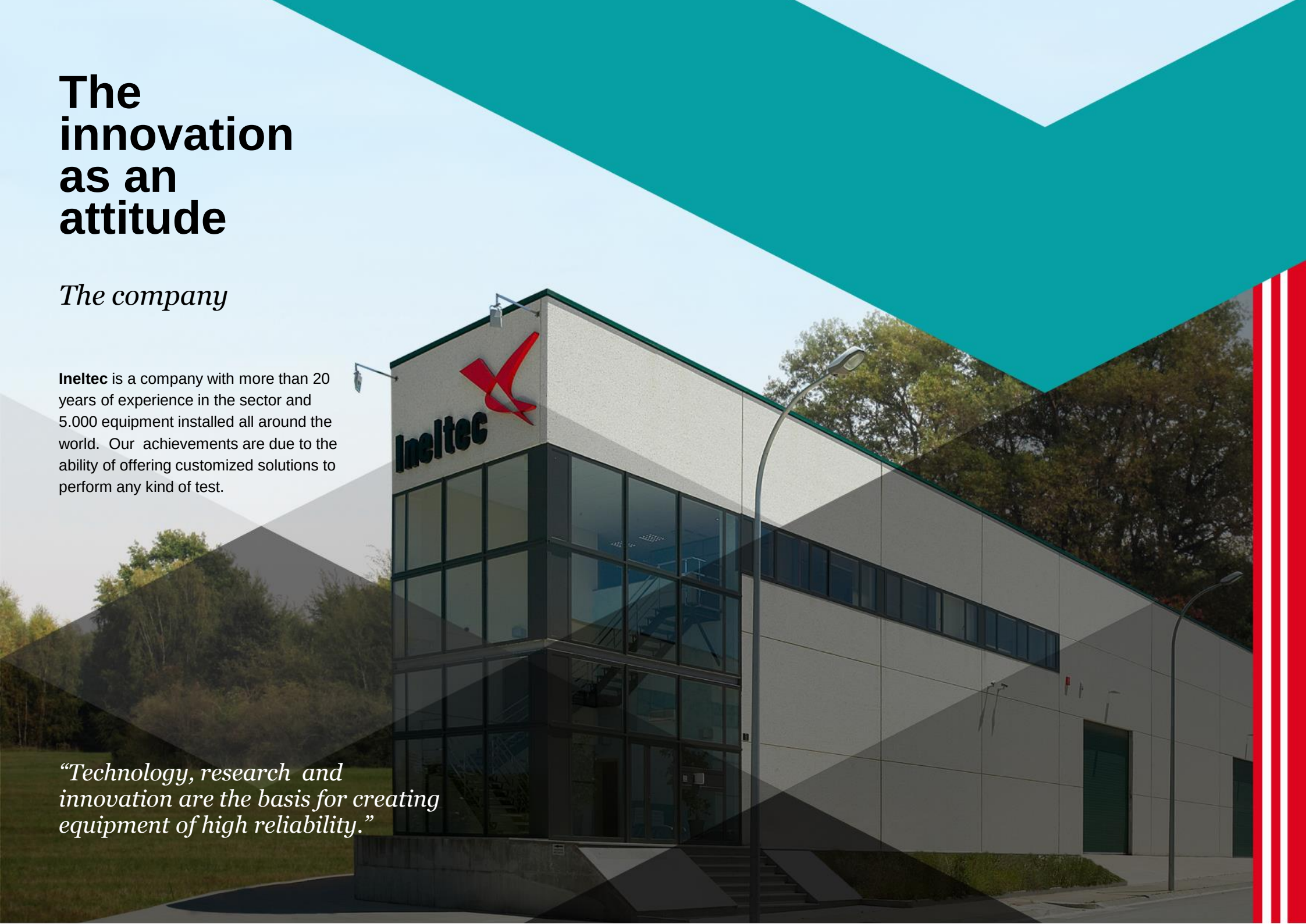
Desktop Climatic Chamber

INSMCP

The innovation as an attitude

The company

Ineltec is a company with more than 20 years of experience in the sector and 5.000 equipment installed all around the world. Our achievements are due to the ability of offering customized solutions to perform any kind of test.



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

Model

Desktop climatic Chambers from the INSMCP

Climatic chambers from the INSMCP models have many volumes

Model

Description of the equipment

Compact Climatic Chambers of the INECC line simulates environmental conditions of heat and cool together with humidity.

The maximum temperature range of the standard models are from -10ºC to +180ºC.
We also design tailored made equipment according to the specifications. By that way, we modify or amplify the standard features.

Climatic chambers are used in all the industrial sectors since they meet with standards for environmental tests for any product or material.

Volumes

01	50 liters
02	100 liters
03	150 liters

01

02

03

Sectors

Aerospace, Aeronautical, Automotive, Railway, Naval

Construction, Luminary, Wood, Cork, Glass, Coating, Wiring, Ceramics

Pharmaceutical, Cosmetic, Veterinarian, Food industry

Plastic, Chemical, Petroleum, Carton, Paper, Rubber

Biologic, Biotechnologies, Agrobiologic, Insects

R+D, Technological centers, Universities, Laboratories

Electronic, Appliances, Telecommu-nications, Mechanical constructions, Metallurgic

Defense, Armament

Mineral Ironwork, Galvanic, Metallurgic

Textile

Standards

DIN	**EN**	**UNE**	**NF**	**ICH**	**FDA**	**ISO**	**ASTM**	**MIL**	**STD**	**VDA**
IEC	**BS**	**VG**	**IRAM**	**ETS**	**Telcordia**	**ECSS**	**RTCA**	**TR**	**SAE**	**UL**
GR	**NTS**	**ETSI**	**NEBS**	**NCh**	**SEMI**	**AS**	**NZS**	**ANSI**	**NMX**	**IRAM**
ABNT	**UNIT**	**INTN**	**NTP**	**…**						

Features of the equipment

construction

01

01/ interior/exterior

The interior is made of stainless steel and the exterior made of aluminum sheet lacquered in white.

02

02/ mobility

The machine provides 4 multidirectional wheels with brake devices.

03

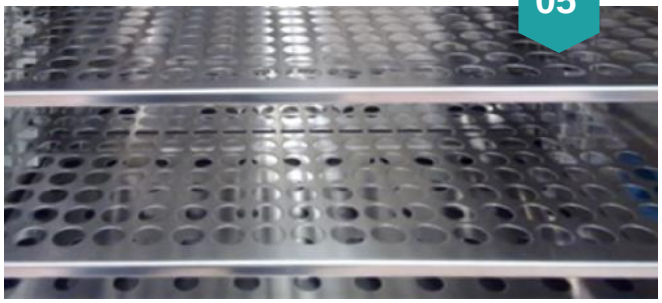
03/ observation window

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

04

04/ Access holes

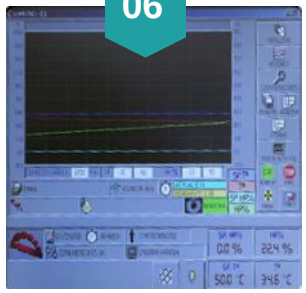
Climatic chambers have access holes for passing though electrical wiring or the calibration sensors.



05

05/ trays

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



06

06/ control system

The touch screen PC comes with a control software that is simple and intuitive and allows the programming, adquisition, recording and controlling of all the variables.

Features of the equipment

Functional properties

Modelo INSMCP	Temperature	R.H.	Maximum thermal load at + 20ºC	Gradients according to IEC-60068-3-5		Dimensions HxWxD (mm)	Approx. Weight
	-10ºC	10%		Cold	Heat		
Vol. Liters	+150ºC	98%	1 Kw	2,7ºC min	4ºC min	Internal	Kg.
50	*	*	*	*	*	500x400x250	100
100	*	*	*	*	*	500x500x400	110
150	*	*	*	*	*	600x600x400	130

On all the volumes

Stability
Temp. ±0,3ºC max.
R.H. ±2% max.

Resolution
Temp. 0,1ºC
R.H. 0,1%

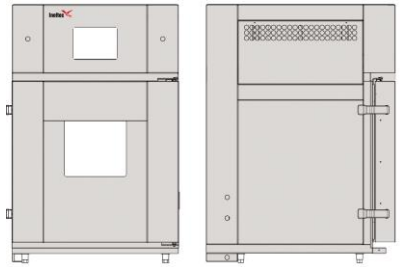
Accuracy
Temp. ±0,5ºC max.
R.H. ±2% max.

Homogeneity
Temp. ±2ºC max.
R.H. ±2% max.

Other features on request

Features of the equipment

External dimensions



**Approximated dimensions*

Volume	High (mm)	Width (mm)	Depth (mm)
50	1150	700	925
100	1150	700	925
150	1400	800	925

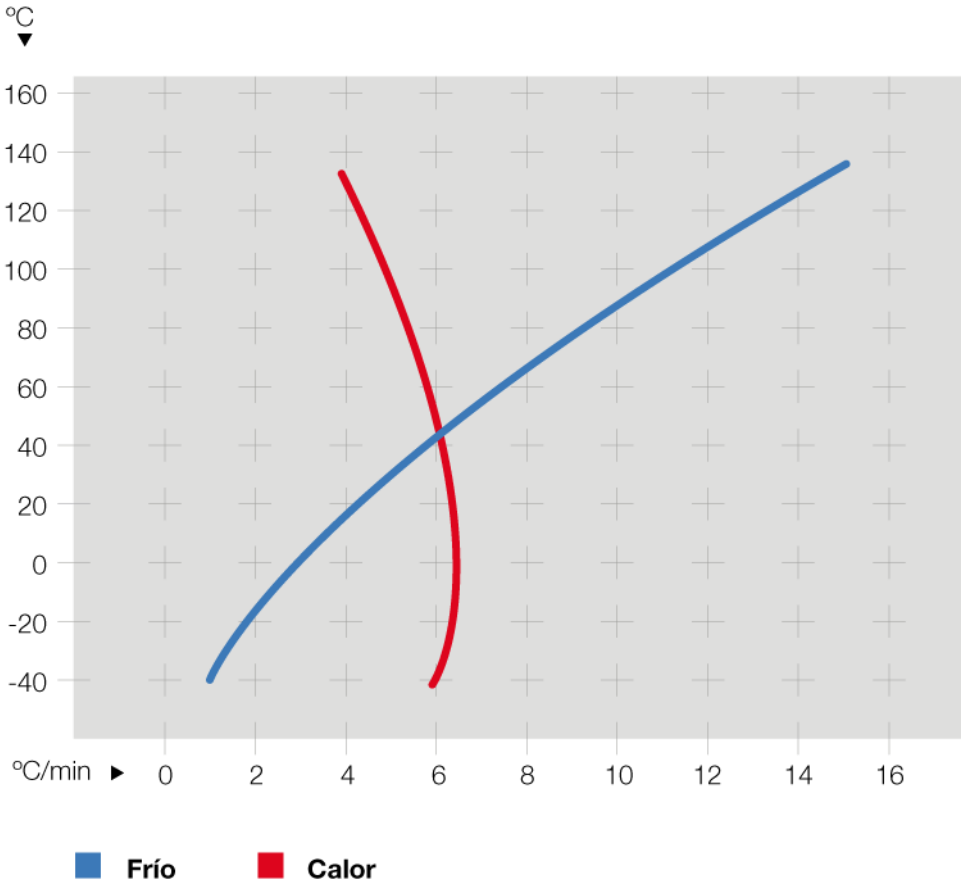
Electrical consumption and noise level

Model INSMCP	Connection voltage and power	Maximum consumed voltage	Calorific power	R.H. power	Noise level
	230V II+GND			0,75	<65
Vol. Liters	50 Hz	Kw	Kw	Kw	dB
50	*	3	1	*	*
100	*	4	1,5	*	*
150	*	5	2	*	*

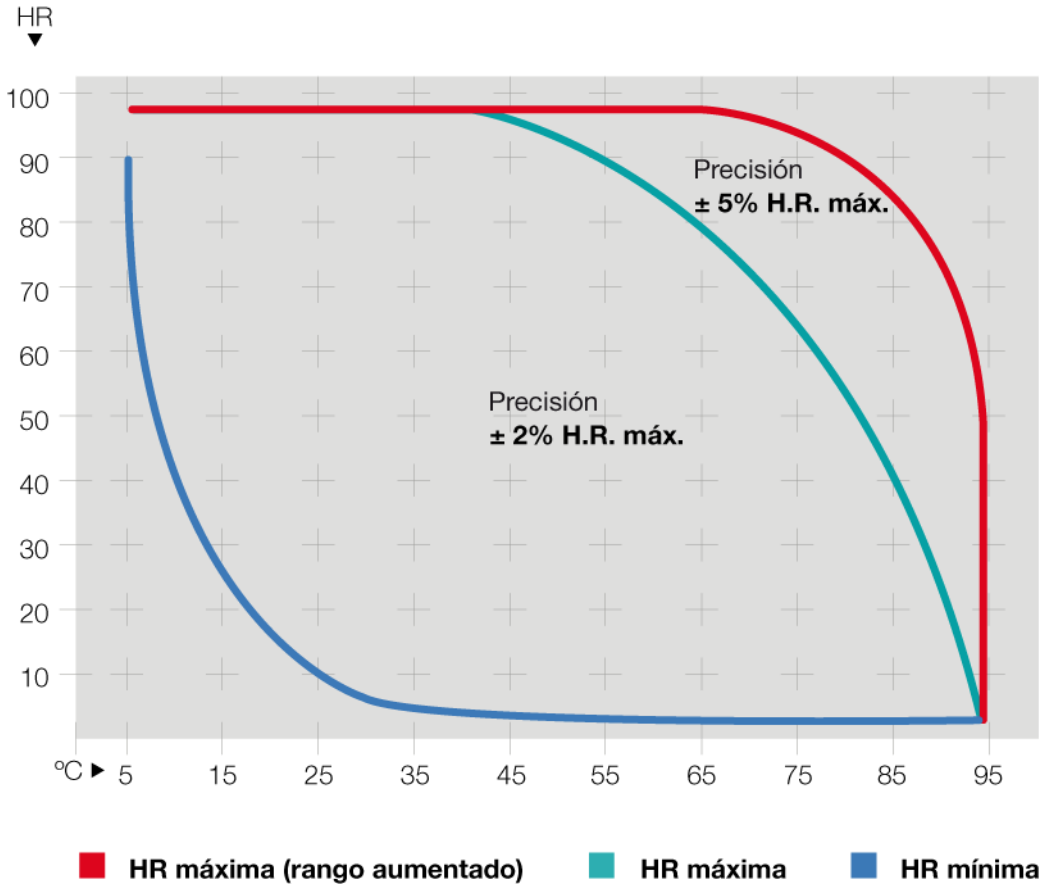
Features of the equipment

graph

Gradients IEC-60068-3-5



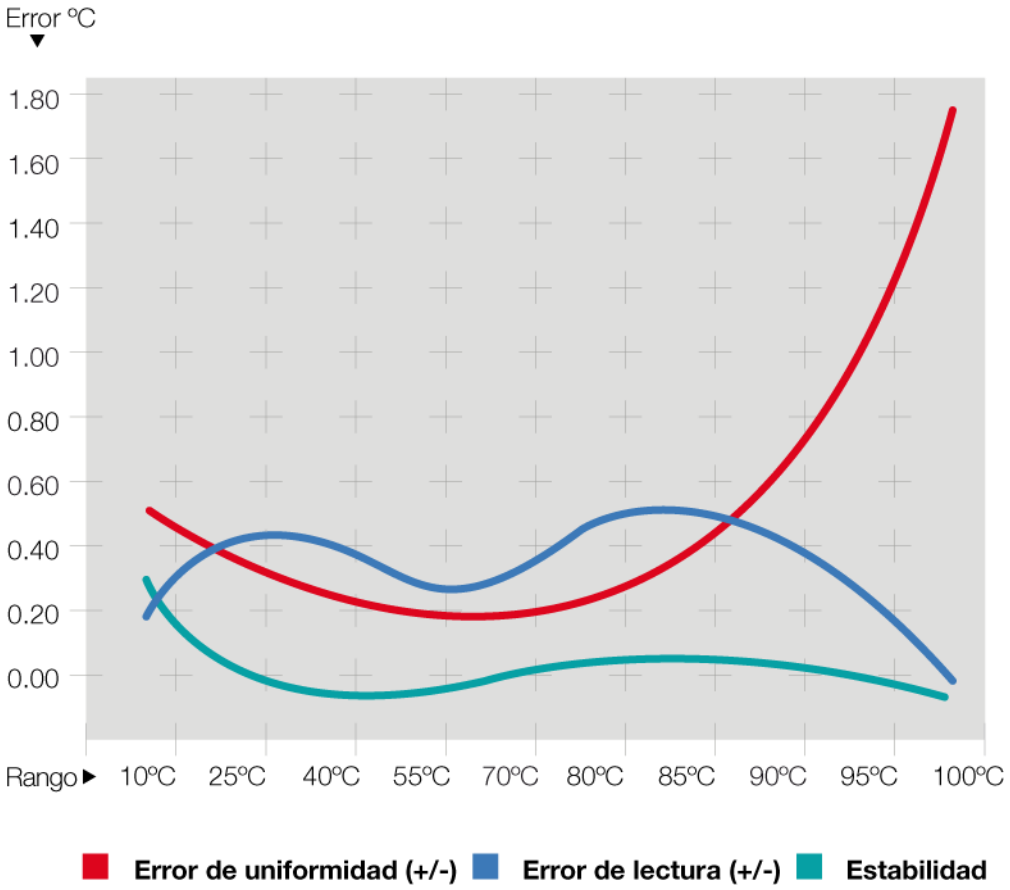
Working range R.H.



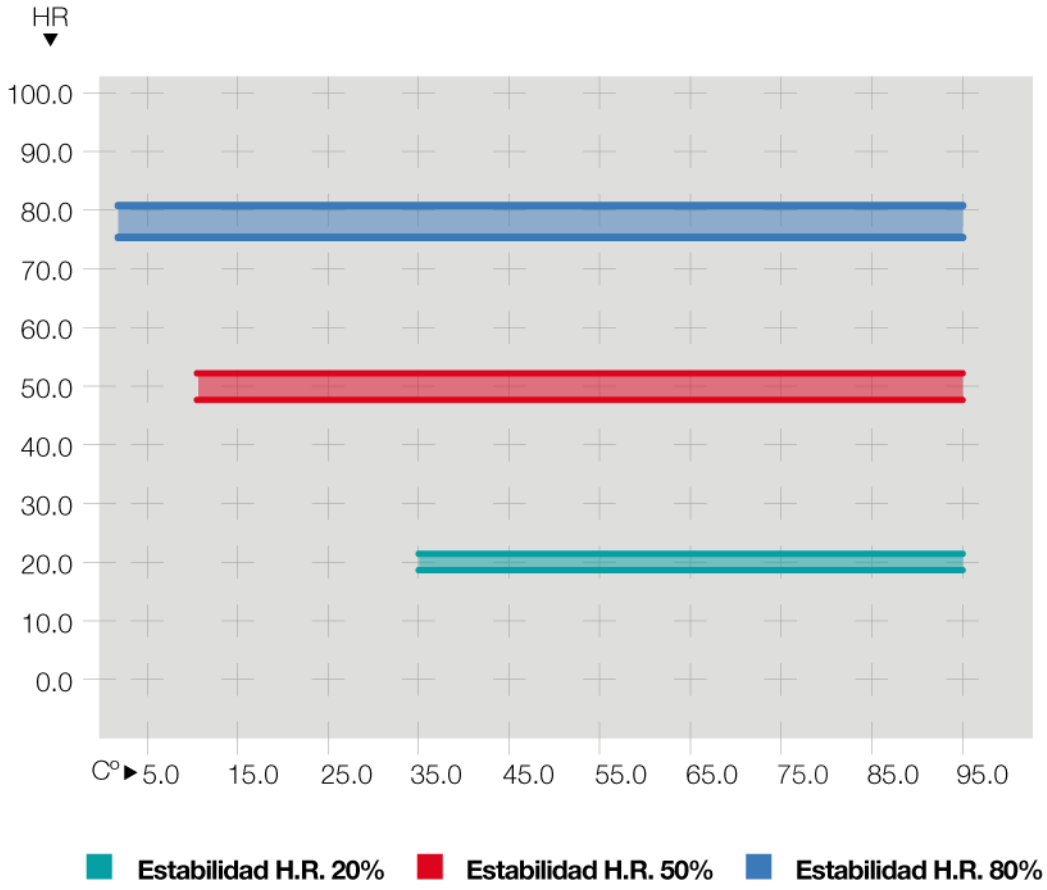
Features of the equipment

graph

Temperature error

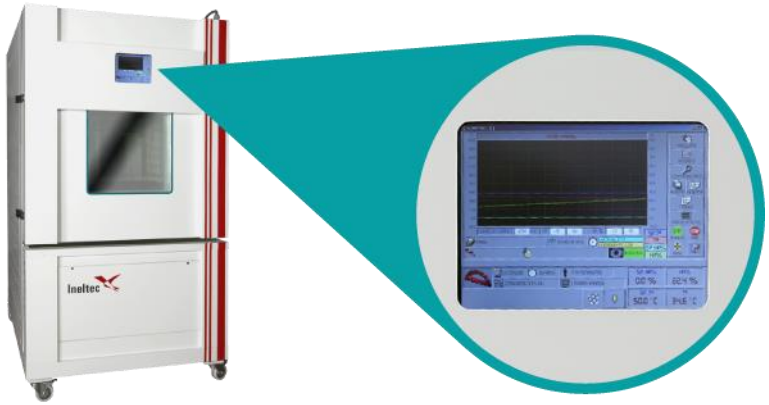


Stability R.H. / Tª



Control system

Touch screen PC



Features

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

software/ use

*With the **PROCAM-WIN** integrated software it is possible to perform the programming, acquisition, recording, control and analysis of the results.*

software/ features

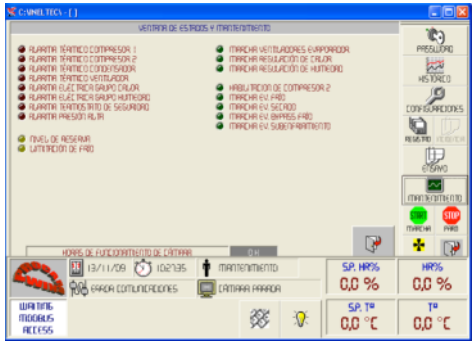
1/ Possibility of automatic or manual programming
2/ Start programming in a specific day and hour
3/ It allows taking / entering notes during the tests
4/ Different access levels
5/ Maximum 11 operators
6/ More than 100 programs
7/ Maximum 100 segments per program
8/ Linking up to 4 programs
9/ 1 to 999999 or infinite programming cycles
10/ Visualization and record of the tests in a graphic or table
11/ Option to export to Excel or similar
12/ Setting of minimum and maximum limits for alarms of temperature and humidity for each cycle.
13/ Controlling from distance through Ethernet, WIFI and WEB

Control system

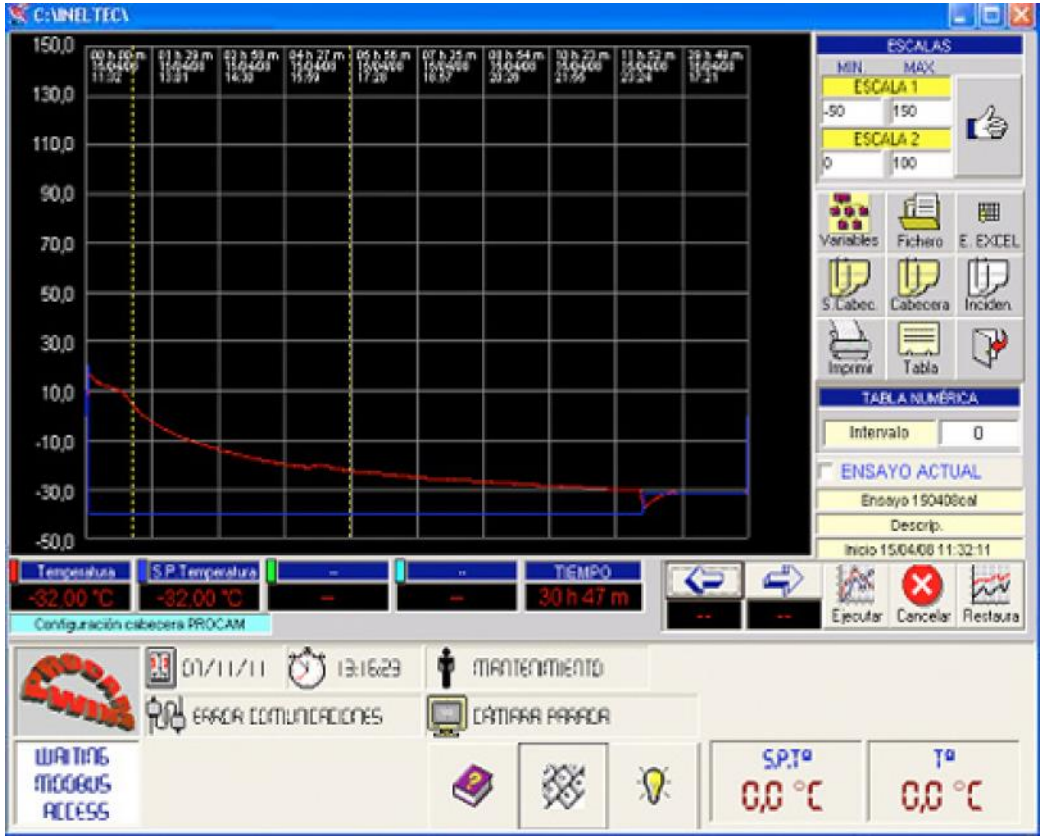
software/
screens

Operators

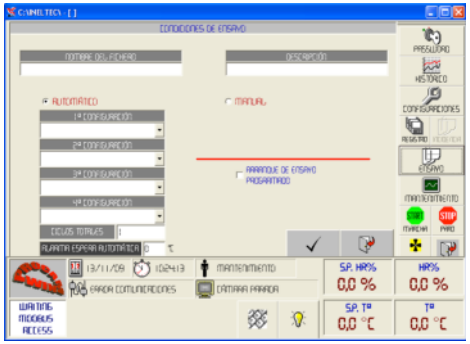
Maintenance screen



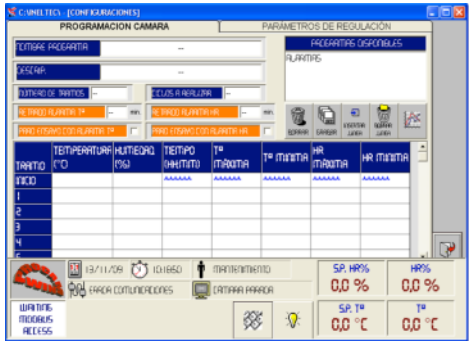
Software Procam-Win / graphics



Testing Conditions



Programming of the chamber



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 – wind / air


Freezer cabinet

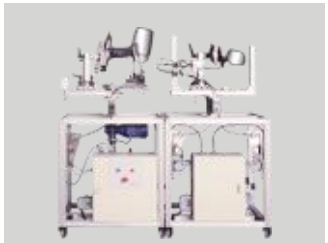

Thermostatic bath


Furnace


Heating

Range of products

BE
Testing bench


Fatigue endurance


Characterization


Pulsing pressure


Rupture


Bursting


Liquid Thermal Shock


Standardization


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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Standard annex

BS 2011	DIN 50014	IEC 60068-3-5	MIL-E-5272, Met. 4.4	MIL-T 5422 E, part 4.4	VG 95332
BS 2011, Part 2, Test A	DIN 50016	IEC 60721-4	MIL-STD 202	Telcordia GR1435, Part	VG 95332, page 22
BS 2011, Part 2, Test B	DIN 60068	IEC 61300-2-17	MIL-STD 202 E, Met. 106 D	4.4.3	VG 95332, page 23
BS 2011, Part 2, Test Ca	DIN 72300-4	IEC 61300-2-18	MIL-STD 202 E, Meth. 103B	Telcordia GR1435, Part	VG 95332, page 3
BS 2011, Part 2.1, TEST	DIN/IEC 68-2-30	IEC 61300-2-19	MIL-STD 750 B, Met. 1021.1	4.5.3	VG 95332, page 34
DA	DIN/IEC 68-2-30 DB Var. 1	IEC 61300-2-21	MIL-STD 810 D	Telcordia GR1435, Part	VG 95332, page 4
BS 2011, Part 2.1, Test N	DIN/IEC 68-2-30 DB Var. 2	IEC 61300-2-22	MIL-STD 810 D, Met. 501.2	4.4.1	VG 95332, part 5
CPMP/ICH/279/95	DIN/IEC 68-2-56	IEC 61300-2-46	MIL-STD 810 D, Met. 502.2	Telcordia GR1435, Part	RTCA-DO-160G
CPMP/ICH/380/95	ECSS-Q-70-038	IEC 61300-2-47	MIL-STD 810, Met. 507 Proc. 1-2-	4.4.2	NCh2791.Of2003
DIN 12880 part 1	ECSS-Q-70-08A	IEC 61300-2-48	3	Telcordia GR1435, Part	NCh2802.Of2003
DIN 40046	ETS 300019-2	IEC 62108	MIL-STD 883	4.5.2	NMX-C-228-1984
DIN 40046 part 2	IEC 60068-2-1, Test A	IEC 68-2-1, part A	MIL-STD 883 C, Met. 1004.4	Telcordia GR1435, Part	UNIT 795:1990
DIN 40046 part 3	IEC 60068-2-14 Test Nb	IEC 68-2-14	MIL-STD 883 C, Met. 1008.2	4.4.4	UNIT-IEC 60811-1-4:2004
DIN 40046 part 5, test C	IEC 60068-2-2, Test B	IEC 68-2-14 Nb	MIL-STD-202 E, Meth. 108A	Telcordia GR1435, Part	UNIT-IEC 60811-3-2:2005
DIN 40046, Part 101	IEC 60068-2-3, Test Ca	IEC 68-2-2, test B	MIL-STD-202, Meth. 103B	4.4.5	
DIN 40046, Part 14, Test	IEC 60068-2-30, Test Db,	IEC 68-2-3, TEST	MIL-STD-202, Meth. 106D	Telcordia GR1435, Part	
Nb	Var.1	103B	MIL-STD-331 A, Meth. 105.1	4.5.1	
DIN 40046, Part 14, Test	IEC 60068-2-30, Test Db,	IEC 68-2-3, test Ca	MIL-STD-331 A, Meth. 112.1	Telcordia GR1435, Part	
Nb	Var.2	IEC 68-2-30	MIL-STD-750 B, Meth. 1021	4.5.5	
DIN 40046, Part 3, Test A	IEC 60068-2-38	IEC 68-2-38	MIL-STD-810 D, Meth. 501	Telcordia GR326, Part	
DIN 40046, Part 31	IEC 60068-2-4, Test D	IEC 68-2-4, test D	MIL-STD-810, Meth. 502	4.4.2.1	
DIN 40046, part 4, test 3	IEC 60068-2-56	MIL-E 5272	MIL-STD-810, Meth. 507	Telcordia GR326, Part	
DIN 40046, Part 4, Test B	IEC 60068-2-66	MIL-E 5272, Met. 4.1	MIL-STD-883 C, Meth. 1008	4.4.2.2	
DIN 40046, Part 5	IEC 60068-2-67	MIL-E-5272, Met. 4.2	MIL-STD-883, Meth.1004	UNE-EN 60068	