



Thermal desktop Chamber

INSMP series



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

Thermal desktop
Chamber
INSMP series



Thermal desktop chambers of INSMP series
have different volumes .

Model

Equipment description

Thermal desktop chambers of INSMP series simulate environmental conditions of heat and cold combined with humidity.

The maximum temperature range in standard models are from -10°C and being able to reach +180°C.

We also design customized 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 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 built in stainless steel and the exterior in a white aluminum plate.



02

02/ Adjustable legs

The machine has 4 legs adjustable in height.



03

03/ Observation windows

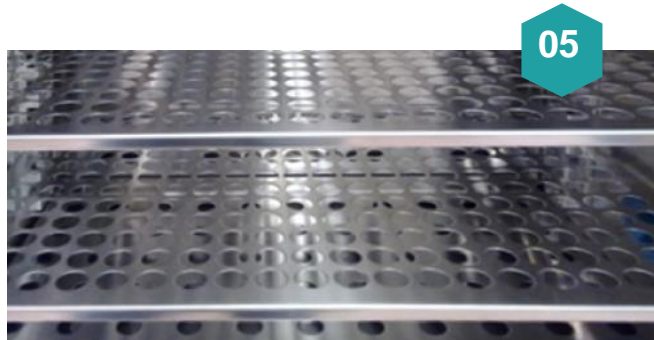
At the door, it is placed a polycrystalline observation window to see inside the chamber.



04

04/ Access holes

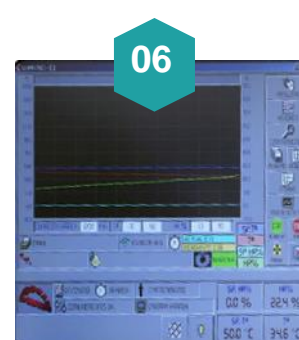
Thermal chambers have access ports to introduce the electrical wiring and the calibration sensors.



05

05/ trays

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



06

06/ control system

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

Features of the equipment

Functional properties

Modelo INSMP	Temperature									Maximum thermal load at + 20°C	Gradients According to IEC-60068-3-5	Gradients under request			Dimension s HxWxD (mm)	Approx. weight
	- 10° C											1 Kw	Cold 2,7°C min	Heat 4°C min		
50	*										*	*	*	500x400x250	100	
100	*										*	*	*	500x500x400	110	
150	*										*	*	*	600x500x500	130	

On all the volumes

Stability
Temp. ±0,3°C max

Resolution
Temp. 0,1°C

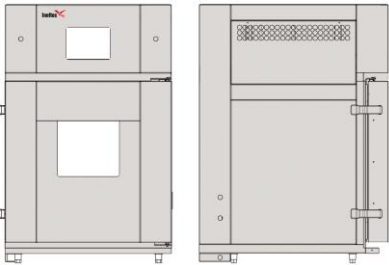
Accuracy
Temp. ±0,5°C max.

Homogeneity
Temp. ±2°C max.

Other features under request

Features of the equipment

Exterior dimensions



**Approximated dimensions*

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

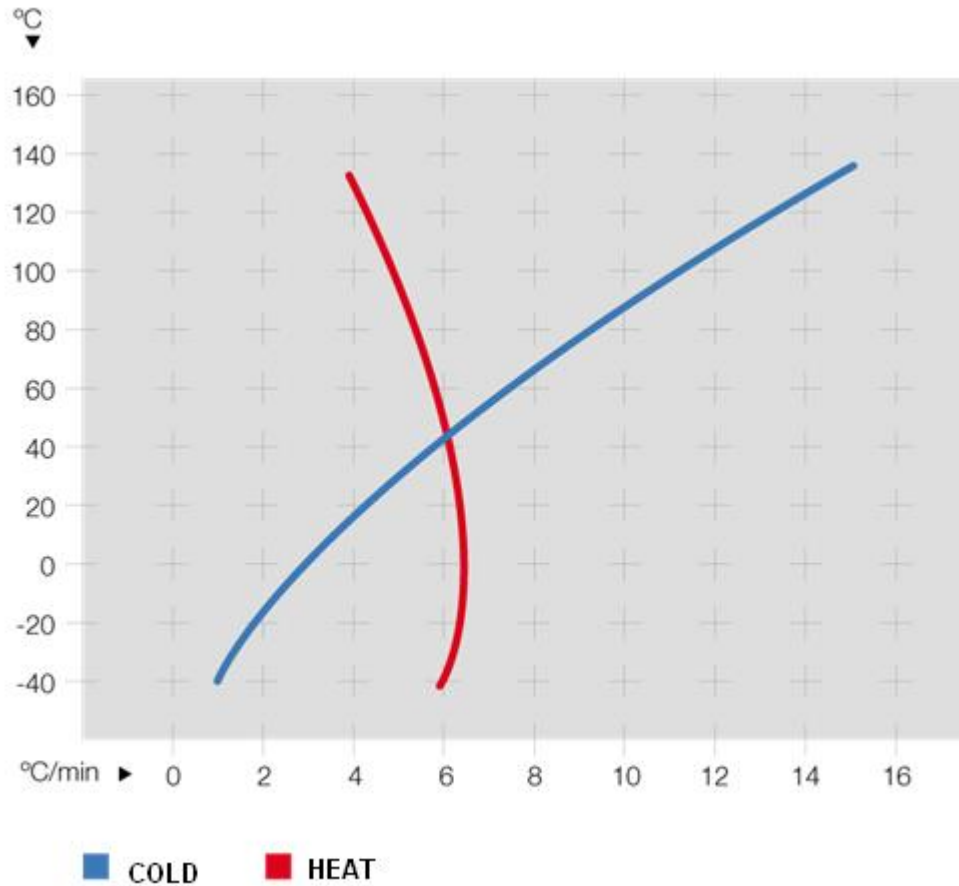
Electrical consumption and noise level

Model INSMP	Voltage supply And power	Maximum Consumed power	Heat power	Noise level
Vol. Liters	230V II+TT	Kw	Kw	<65
	50 Hz			dB
50	*	3	1	*
100	*	4	1,5	*
150	*	5	2	*

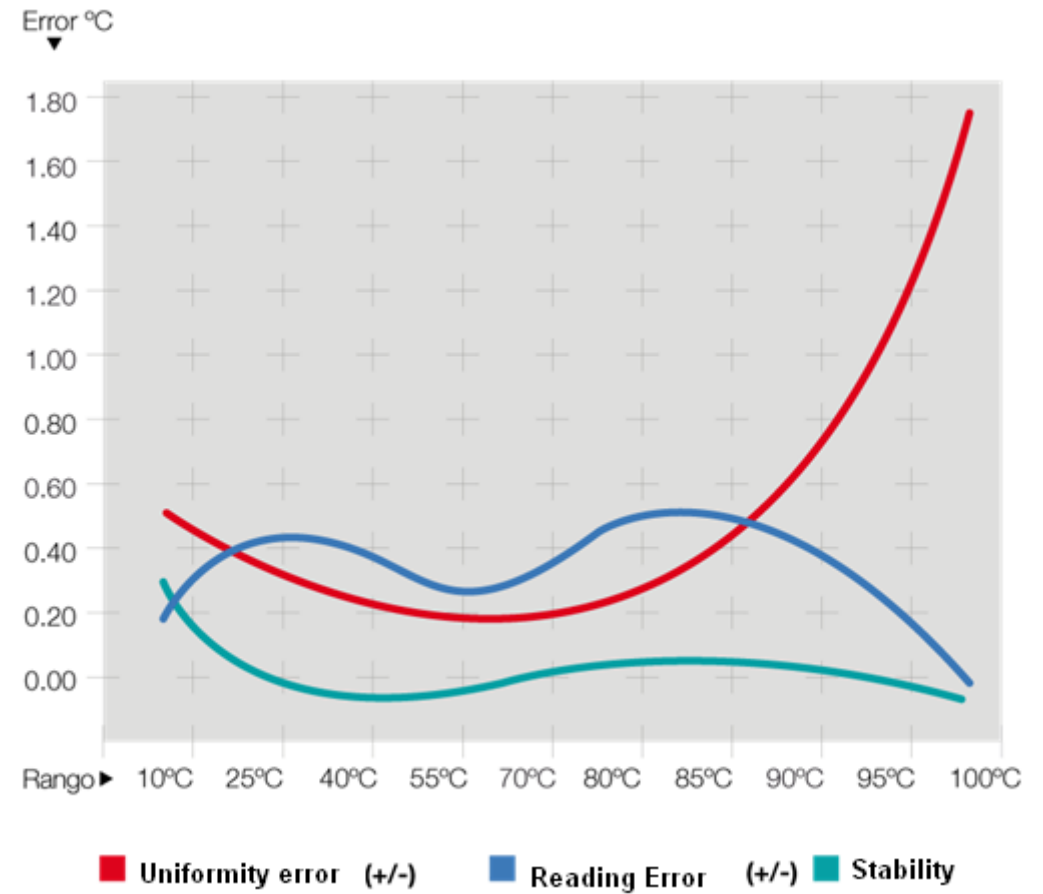
Features of the equipment

graphics

Gradients according to IEC-60068-3-5

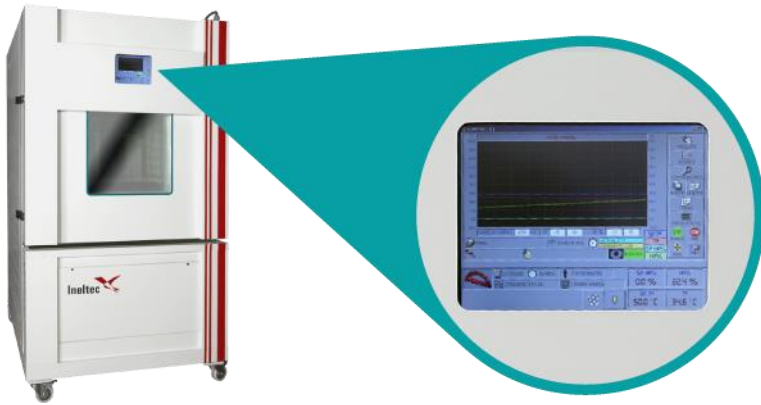


Temperature Error



Control system

Touch screen PC



Characteristics

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

software/ use

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

software/ characteristics

- 1/ Manual or automatic programming.
- 2/ Start programming in a specific day and hour
- 3/ It allows to make 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 of up to 4 programs.
- 9/ Number of programming cycles from 1 to 999999 or infinite

- 10/ Visualization and recording of the done 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

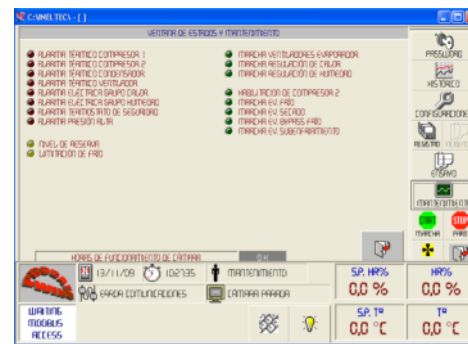
Control system

software/
screens

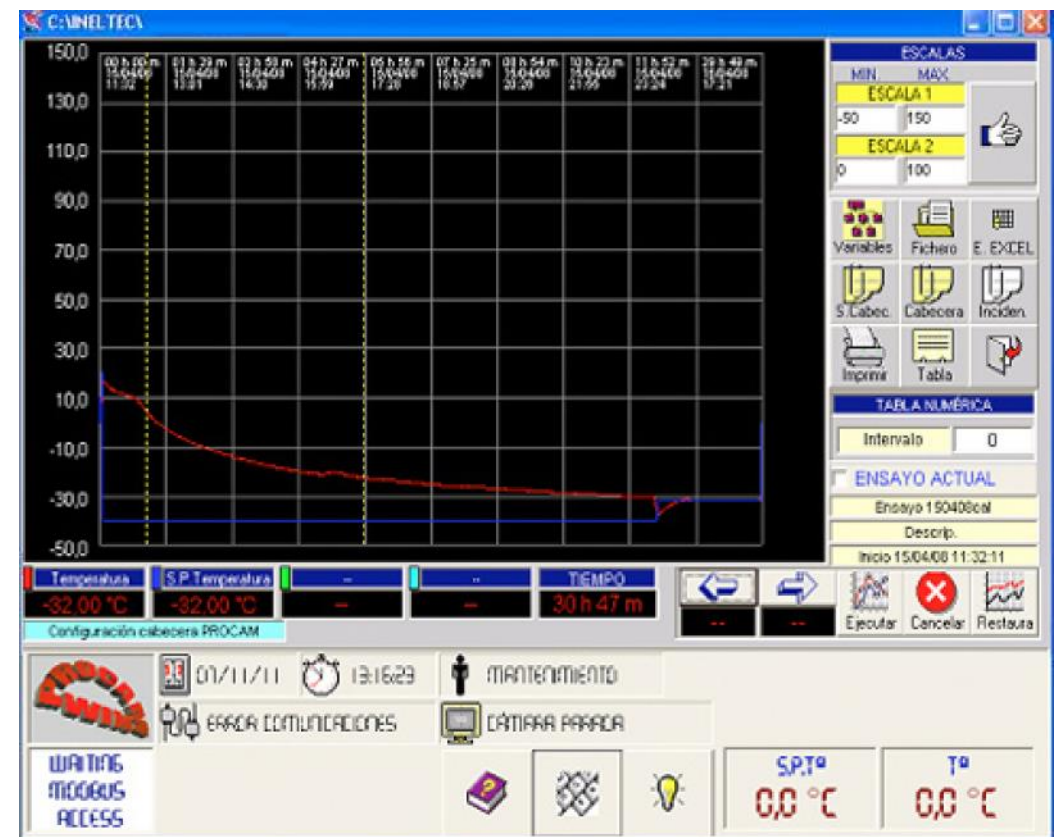
Main menu



Settings



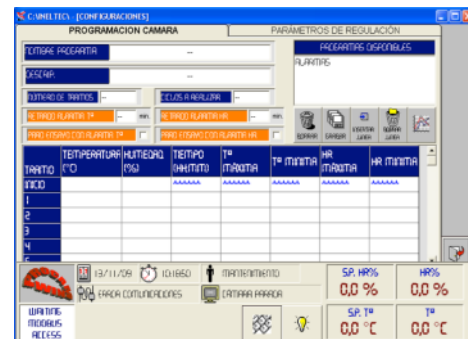
Software 21CFRV3 / historical



Alarms



Access



International presence



Range of products

Thermal desktop Chamber
INSMP Series / INELTEC

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



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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Blog

Standards 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 DA	DIN/IEC 68-2-30	IEC 61300-2-19	MIL-STD 750 B, Met. 1021.1	4.5.3	VG 95332, page 34
BS 2011, Part 2.1, Test N	DIN/IEC 68-2-30 DB Var. 1	IEC 61300-2-21	MIL-STD 810 D	Telcordia GR1435, Part	VG 95332, page 4
CPMP/ICH/279/95	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/380/95	DIN/IEC 68-2-56	IEC 61300-2-46	MIL-STD 810 D, Met. 502.2	Telcordia GR1435, Part	RTCA-DO-160G
DIN 12880 part 1	ECSS-Q-70-038	IEC 61300-2-47	MIL-STD 810, Met. 507 Proc. 1-2-	4.4.2	NCh2791.Of2003
DIN 40046	ECSS-Q-70-08A	IEC 61300-2-48	3	Telcordia GR1435, Part	NCh2802.Of2003
DIN 40046 part 2	ETS 300019-2	IEC 62108	MIL-STD 883	4.5.2	NMX-C-228-1984
DIN 40046 part 3	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 5, test C	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 101	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 14, Test Nb	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 Nb	IEC 60068-2-30, Test Db,	IEC 68-2-3, TEST	MIL-STD-202, Meth. 106D	Telcordia GR1435, Part	
DIN 40046, Part 14, Test Nb	Var.1	103B	MIL-STD-331 A, Meth. 105.1	4.5.1	
DIN 40046, Part 14, Test Nb	IEC 60068-2-30, Test Db,	IEC 68-2-3, test Ca	MIL-STD-331 A, Meth. 112.1	Telcordia GR1435, Part	
DIN 40046, Part 3, Test A	Var.2	IEC 68-2-30	MIL-STD-750 B, Meth. 1021	4.5.5	
DIN 40046, Part 31	IEC 60068-2-38	IEC 68-2-38	MIL-STD-810 D, Meth. 501	Telcordia GR326, Part	
DIN 40046, part 4, test 3	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 B	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	