



Frost-Defrost Vertical Chamber

CRHEL 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 tailored solutions to perform any kind of test.

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



Model

Frost-Defrost Vertical Chamber
from CRHEL series



Model

Frost-Defrost Vertical Chamber
Series CRHEL / INELTEC

Equipment description

Frost-Defrost cabinets from the CRHEL Series simulates automatic cycles of Frost and Defrost according to the international standards.

The maximum temperature ranges are from -30°C to +50°C.

We also design tailored equipment according to the specifications.

By that way, we modify or amplify the standard features.

Frost-Defrost cabinets are used mainly in the construction sector, companies such as tiles manufacturers, slate, marble, bricks, etc.

Volumes

01 125 liters

01



Sectors



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



R+D,
Technological
centers,
Universities,
Laboratories

Standards

UNE EN 10545-12:1997

UNE-EN 12326-2:2012

UNE 67048:1988

UNE-EN 539-2:2013

UNE-EN 1348:2008

NF P18-425 Mai 2008

UNE-EN 12371:2011

UNE-EN 1342:2013

UNE 67028:1997 EX

UNE-EN 11343:2005

UNE-EN 438-2:2005

UNE-EN 1367-1:2008

NF P18-424 Mai 2008

Etc.

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/ Sample holder

Sample holder element inside to put 9 prismatic trays.



03

03/Multi-crystal
Observation windows

On the door, it is located a multi-crystal observation windows to see the internal part of the chamber.



04

04/ Movement

The machine has 4 multidirectional wheels with brake devices.



05

05/ Control system

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

Features of the equipment

Functional properties

CRHEL Model	Temperature	Gradientes				Dimensions HxWxD (mm)		Approx. Weight
		Air		Water		Interior	Sample holder	
Vol. Liters	-30°C	Cooling	Heating	Cooling	Heating			Kg.
		+50°C	1,5°C min	2°C min	30°C Hour	-		
125	*	*	*	*	-	500x500x500	400x400x400	350

In all volumes

Accuracy

Temp. $\pm 0,1^{\circ}\text{C}$ max.

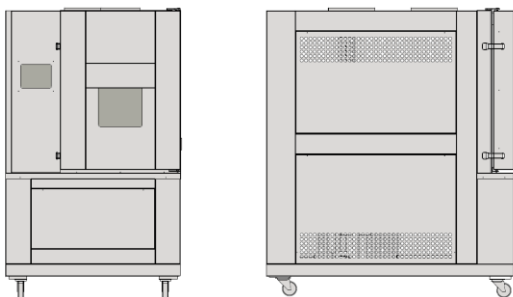
Homogeneity

Temp. $\pm 0,5^{\circ}\text{C}$ max.

Other features on request

Features of the equipment

External dimensions



*Approximated dimensions

Volume	Height (mm)	Width (mm)	Depth (mm)
125	2060	1200	1700

Electrical consumption and noise level

CRHEL Model	Voltage supply and power	Maximum consumed power	Heat Power	Noise level
Vol. Liters	230V III+N+GND	Kw	Kw	<65
	50 Hz			dB
125	*	5	3	*

Control system

Touch screen PC



Features

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

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 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/ Controlling from distance through Ethernet, WIFI and WEB

International Presence



Range of products

Frost-Defrost Vertical Chamber
Series CRHEL / 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

Frost-Defrost Vertical Chamber
Series CRHEL / INELTEC

BE Testing bench



Fatigue endurance



Characterization



Pulsing pressure



Rupture



Bursting



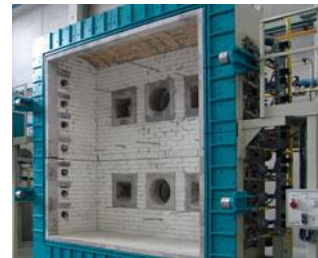
Liquid Thermal Shock



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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