



## Cooled low temperature incubator "Prebatem-TFT"

**FORCED AIR FAN CIRCULATION.**  
**MICROPROCESSOR CONTROLLED WITH DIGITAL DISPLAY**  
**ADJUSTABLE TEMPERATURES FROM 5 °C UP TO 60 °C. RESOLUTION 0.1 °C**  
**SEMICONDUCTOR HEATING AND COOLING SYSTEM.**  
**QUIET-STABLE - FREE FROM VIBRATIONS - VERY ACCURATE - LOW POWER CONSUMPTION.**  
**INNER TEMPERED GLASS DOOR.**

PREMIER  
SERIE



NEW  
DESIGN



**SAFETY: CONFORMS TO THE DIN 50011 STANDARD FOR TEMPERATURE STABILITY AND HOMOGENEITY.**  
**CONFORMS TO THE DIN 12880. STANDARD ADJUSTABLE SAFETY THERMOSTAT FITTED.**

*Leading edge technology, Peltier effect. No compressor.*

### APPLICATIONS

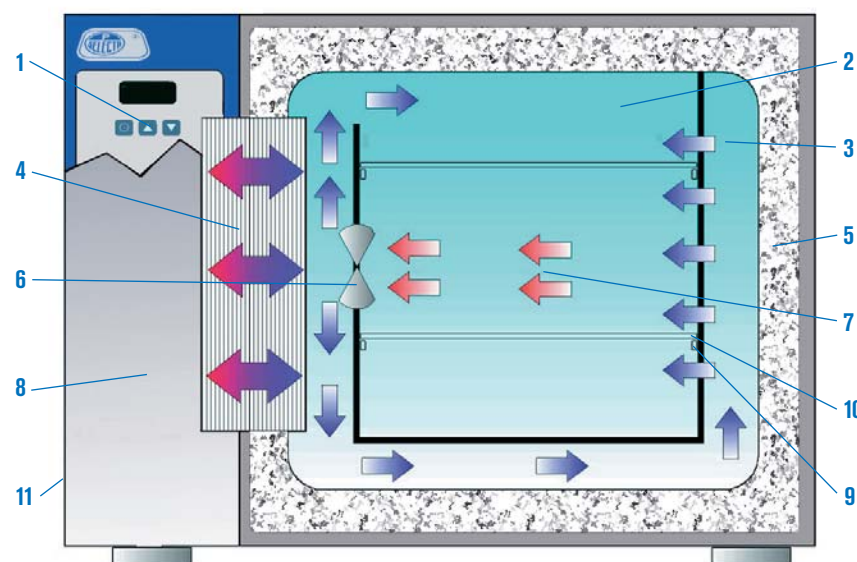
Biotechnology, Bacteriology, Plasma fractionation, Biology, Enzymatic test, Research, Serum studies, metrology, Botany, Phytopharmacy, Cosmetics, Water analysis and Agricultural research, feeding, new techniques for protein crystallization.

### FEATURE

1. 4.3 inches TFT touch screen.
2. Inner chamber and elements made of AISI 304 stainless steel.
3. Premixing temperature chamber.
4. Semiconductor- static radiator for heating and cooling.
5. Excellent thermal insulation within the chamber.
6. Turbo fan to make the air circulate.
7. Diagram showing the homogeneous air flow from the premixing chamber of the semiconductor cooling / heating system.
8. Independent insulated control box .
9. Support rack for trays.
10. Shelves of AISI 304 stainless steel.
11. Epoxy coated outer case.

PERFORMANCE	Specification	
	at 10 °C	at 37 °C
Stability	±0.5 °C	±0.1 °C
Homogeneity	±0.1 °C	±0.3 °C
Set error	±0.25 °C	±0.20 °C

Oven's diagram seen from the front side.



Forced air passes through the heat exchanger chamber prior to entering the main cabinet chamber.

Cross section of the circulation of air maintaining the temperature in the cabinet below ambient by the use of an electronic heat exchanger rather than a compressor.

### CONTROL PANEL

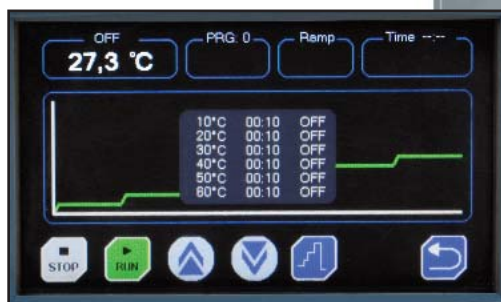
1. Main switch.
2. TFT touch screen:  
Visual audible alarm.  
Clock calendar.  
Single or cyclic On / Off programming.  
Up to 10 work programs.  
Up to 6 segments per program.  
Stability time in each segment (from 1 min to 99h) .  
Alarms and events storage.  
Probe error detection.  
Self Diagnostics.  
Ramps between segments.  
Door open alarm.  
Network failure detection and saving.  
Over temperature and low temperature alarms and memorization (date, start time, end time and temperature).

- Safety thermostat (TS) by software.
- Mechanic safety thermostat (TS) .
- USB and RS -232 output.
- PC software.
- User manual on screen.
- Configurable parameters: Date / time, temperature correction , data collection interval, language (English, Spanish and French) , °C / °F selection , over temperature and low temperature limit.
- 3. RS-232 output.
- 4. USB output.
- 5. Security thermostat.
- 6. Ethernet output para for LAN connection.



## CONTROL PANEL

- Main switch.
- Mains indicator lamp.
- Microprocessor control and digital temperature display.
- Adjustable safety thermostat.



Graph of temperature ramps

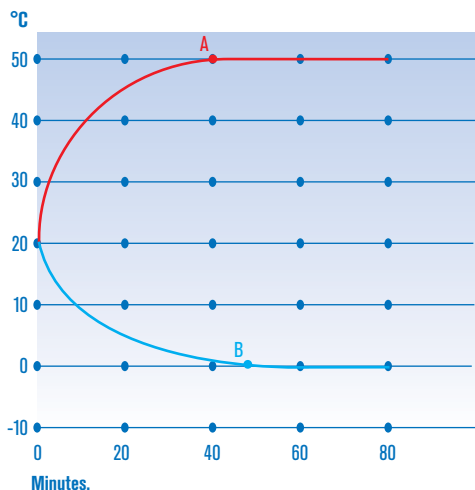


## STANDARD EQUIPMENT

2 shelves and 4 shelf guides.

## MODELS

Part No.	Capacity litres	Height / Width / Depth (interior) cm			Height / Width / Depth (exterior) cm			Shelf guides	Power consumption W/hr.		Power W	Weight Kg
									at 5 °C	at 40 °C		
<b>2000963</b>	36	40	30	30	60	65	49	7	70	50	310	54
<b>2000964</b>	80	50	40	40	70	75	59	8	75	55	310	73
<b>2000965</b>	150	50	60	50	70	95	68	8	90	60	310	94



Performance graph of temperature and time.

- A. Set at 50 °C: 40'.
- B. Set at 0 °C: 48'.

Note: To obtain the optimum homogeneity at the set temperature, the load should not surpass more than 70 % of the volume of the chamber.



## ACCESSORIES

Accessories must be factory installed.



**Digital printer for time and temperature** with numerical printout on continuous paper roll, with print intervals from 1 minute to 99 hours.  
Part No. **2000016**



**Optional communication modules**  
Part No. **2101623** Module for Wifi network.  
Part No. **2101624** Module for Bluetooth.  
Part No. **2101625** Module RF.  
Part No. **2101626** RS-232 to RS-485 converter.

## SPARES

Shelves and guides.

Oven Part No.	2000963	2000964	2000965
<b>Guides (2) (Set)</b>	<b>2000012</b>	<b>2000013</b>	<b>2000015</b>
<b>Shelves</b>	<b>2000022</b>	<b>2000023</b>	<b>2000025</b>

Each self requires two guides i.e. one set.