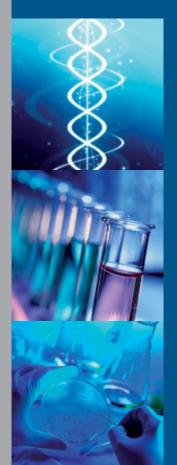


Freezers - Ultrafreezers Platilab & Irilab Series





- **PLATILAB**: top security and performances with reliable temperature control.
- IRILAB: combining the high reliability of PLATILAB with the possibility to store up to 60.000 vials in less than one square meter thanks to V.I.P. insulation.



Platilab - Irilab Series / Optional

- Temperature chart recorder. Shelf.
- Drawer.
- 23-50 mm port hole. Bioguard® Acces. PT 100 probe.

- Back-up system (CO2-LN2). Racks, boxes and dividers.
- Remote cooling system. Serial interface.
- - Software.

























Freezers - Ultrafreezers Platilab & Irilab Series



- → Chest and up-right freezers at -40°C / -86°C for freezing and long term storage of biological samples.
- → Low energy consumption.
- → V.I.P. Technology for footprint optimization (Irilab models).
- Microprocessor control board with seven independent sections for top reliability in case of failures (NEXT models).
- → Alarm logs in text and graphs.
- → Data export on SD memory card.
- → Access control.
- → Double door models with two indipendent chambers (NEXT DD models).



Freezers - Ultrafreezers Platilab & Irilab Series





→ Professional line.



→ Models H and V - Working temperature: -86°C.

Insulation /



→ Models SH and SV - Working temperature: -40°C.

Technical features

Structure /Fully metallic in heavy-gauge phosphate-coated, powder-painted steel plate with interior in top quality stainless steel AISI 304.

Both up-right and chest models are installed on castors and adjustable feet.

Door /PLATILAB **STD** models equipped with mechanical lock and key;

IRILAB STD models equipped with magnetic lock and key.

In **PLUS** version the door is equipped with patented transponder system **BIOGUARD®**, which enables the door opening by a card to authorized personnel only.

The system guarantees a complete access control. In case of power outage, the buffer battery maintains the system on for 24 hours.

Heated pressure compensation valve allows an easy and quick opening of the door. **Port hole** /Diameter 23 mm, with rubber cap for the insertion of additional probes.

Inner doors (only for up-right models) / PLATILAB models: antishock polystyrene panels with magnetic lock and special gaskets. IRILAB models: composite materials (aluminum - pvc - aluminum) panels and magnetic stop. Shelves (only for up-right models) / Stainless steel adjustable in height.

PLATILAB models: thickness 140 mm. High pressure (40 kg/mc) polyurethane foam. IRILAB models: thickness 70 mm. Vacuum Insulated Panels (V.I.P.) and polyurethane foam. **Cooling system** /Hermetically sealed, two stages (Cascade cycle) compressor (-86°C) and single stage compressor (-40°C). Refrigerant HCFC-free.

Adjustment and control system /PLATILAB e IRILAB models: microprocessor controller E2003, with two independent sections, the first one to set and control temperature, the second one to manage the alarm system and display temperature.

Rechargeable buffer battery (12 V, 2Ah) to maintain the alarm system on for 48 hours in case of power outage. Configured for a remote replication of alarms.

01 02 03







Next™ models

Next models add to Platilab - Irilab freezers enhanced display and data logging features by means of **Cold Brain™**, the superior microprocessor controller with seven independent sections.

Microprocessor controller **Cold Brain™**, with seven independent sections to maintain the proper working conditions even in presence of failures.

The multiple high quality sensors (four PT100 and four NTC) and the efficient and flexible alarm system guarantee the maximum security in sample control.

Cold Brain™ key features

- Multi language compliant to European rules.
- **Wide graphic display** (240x128pixel), with regulation and alarm sections.
- **Touch keyboard** using 8 soft keys with context dependent functions.
- On-Screen System Messaging: displays set-points, details of alarms, door openings and operating conditions.
- Integrated Data Recorder: traditional paper chart recorder is replaced by electronic recorder. Data (alarms and parameters) are stored for 3 months at a sample interval of 1 min.
- Acoustic and Visual Alarms for high and low temperature conditions, power failure, low battery, malfunctions and filter cleaning.
- Alarm Log provided via text and graphis, to record door openings, power failure, electronic fault, internal probe and ambient temperature probe failures, fan and condenser malfunctions.
- **Back up battery** (up to 48 hours): maintains settings and activates visual and acoustic alarms during power outage.
- Battery charge indicator.
- Prearranged for CO2 & LN2 Backup Systems: simplifies and makes cheaper the installation.
- Remote Alarm Contacts provides connection to centralized monitoring systems.
- Secure Digital (SD) card to download data on PC.
- **Ethernet Interface** (Optional Wireless) to connect to a laboratory pC network. Through **Cryolog2** software, it is possible to monitor parameters and alarms of multiple freezers (up to 30).
- Protected On-Off Switch to prevent accidental shut off.
- Low noise.

04 05

- 01. E2003 with Bioguard®.
- **02.** Irilab 800 with 4 inner doors.
- **03.** Platilab 500 with 3 inner doors and racks.
- 04. Irilab NEXT 800
- **05.** COLD BRAIN™ detail.







Indipendent chambers /Two separated chambers, accessible through independent doors. **Structure** /Heavy-gauge phosphate-coated, powder-painted steel plate with interior in top quality stainless steel AISI 304. Installed on castors and adjustable feet, for easy movement. All our freezers fit with standard doors.

Port hole /Diameter 23 mm, with rubber cap for the insertion of additional probes. **Door /STD** models: equipped with magnetic lock and key.

In case of power outage, the buffer battery maintains the system on for 24 hours.

The **PLUS** version door is equipped with patented transponder system **BIOGUARD®**, which enables the door opening by a card to authorized personnel only. The system guarantees a complete access control.

Heated pressure compensation valve allows an easy and quick opening of the door.

Inner doors /Panels in composite material (aluminum–pvc–aluminum) and magnetic stop.

Shelves (only for up-right models) /Stainless steel adjustable height.

Insulation /Thickness 70 mm. Vacuum Insulated Panels (V.I.P.) and polyurethane foam.

Cooling system /Double stage hermetic system. HCFC-free refrigerant.Adjustment and control system /Microprocessor controller Cold Brain™, with seven independent sections to maintain the proper working conditions even in presence of failures. The multiple

high quality sensors (four PT100 and four 4 NTC) the efficient and flexible alarm system

Cold Brain™ key features

Multi language compliant to European rules.

guarantee the maximum security in sample control.

- Wide graphic display (240 x128 pixel), with regulation and alarm sections.
- Touch keyboard using 8 soft keys with context dependent functions.
- On-Screen System Messaging: displays set-points, details of alarms, door openings and operating conditions.
- **Integrated Data Recorder:** traditional paper chart recorder is replaced by electronic recorder. Data (alarms and parameters) are stored for 3 months at a sample interval of 1 min.
- Acoustic and Visual Alarms for high and low temperature conditions, power failure, low battery, malfunctions and filter cleaning.
- Alarm Log in text and graphs, to check door openings, power failure, electronic
 fault, internal probe and ambient temperature probe failures, fan and condenser
 malfunctions.
- **Backup battery** (up to 48 hours): maintains settings and activates visual and acoustic alarms during power outage.
- Battery charge indicator
- Prearranged for CO2 & LN2 Backup Systems: simplifies and makes cheaper the installation
- **Remote Alarm Contacts** provide connection to centralized monitoring systems.
- Secure Digital (SD) card to download data on PC.
- Ethernet interface (Optional wireless) to connect to a laboratory PC network.
 Through Cryolog2 software, it is possible to monitor parameters and alarms of multiple freezers (up to 30).
- Protected On-Off Switch to prevent accidental shut off.
- Low noise.

06 07

- 06. Irilab NEXT 520 DD.
- **07.** Irilab NEXT 520 DD with doors opened.





Technical specifications

	Horizontal Models								
Model	PLATILAB 110			PLATILAB 370		PLATILAB 550			
	SH H			SH	Н	SH	SH H		
Nominal capacity (I)	110		37	70		550			
Temperature range (°C)	-20 /-45 -40 / -86			-20 / -45	-40 / -86	-20 /	-45	-40 / -86	
Supply voltage (V)*	230 V /50 Hz - 115 V /60 Hz - 230 V /60 Hz								
Refrigerant	R404 mixed refrigerant		R404	R404 mixed refrigerant		R404 mixed refrigerant			
External dimensions (mm)	730 × 850 × 1080			1780 × 855 × 1140		2350 × 855 × 1140		55 × 1140	
Internal dimensions (mm)	450 × 560 × 450			1050 × 520 × 670		1590 × 520 × 670			
Max Boxes capacity (n°)	63		210		330				
Overall weight with standard packaging (Kg)	175 205		274	299	32	24	360		
Noise level (dbA)	52								
	Vertical Models								
Model	PLATILAB 340			PLATILAB 500		IRILAB 800			
	SV V			SV	V	SV V		V	
Nominal capacity (I)	340		500		800		00		
Temperature range (°C)	-20 /-45	-40	/ -86	-20 / -45	-40 / -86	-20 /	-45	-40 / -86	
Supply voltage (V)*	230 V /50 Hz - 115 V /60 Hz - 230 V /60 Hz								
Refrigerant	R404 mixed refrigerant		frigerant	R404	mixed refrigerant	R4	R404 mixed refrigerant		
External dimensions (mm)	765 × 900 × 1985		1015 × 90	00 × 1985	1086 × 890 × 1995		00 × 1995		
Internal dimensions (mm)	450 × 530 × 1350			700 × 530 × 1350		906 × 609 × 1472			
Max Boxes capacity (n°)	255			42	20		60	00	
Overall weight with standard packaging (Kg)	243	26	50	293	330	36	60	390	
Noise level (dbA)				<52				<53	
	Horizontal Models			Vertical Models					
Model	PLATILAB Next 370 PLA		PLATILA	AB Next 550	PLATILAB Next 34	40 PLATILAB Next 500		B Next 500	
Nominal capacity (I)	370		550		340		500		
Temperature range (°C)	340								
Supply voltage (V)*	230 V /50 Hz - 115 V /60 Hz - 230 V /60 Hz								
Refrigerant	mixed refrigerant								
External dimensions (mm)	1780 × 855 × 1140		235	0 × 855 × 1140	765 × 900 × 1	985	985 1015 × 900 × 1985		
Internal dimensions (mm)	1050 × 520 × 670		1590 × 520 × 670		450 × 530 × 1	350	700	× 530 × 1350	
Max Boxes capacity (n°)	210			330	252			420	
Overall weight with standard packaging (Kg)	299			360	60 260			330	
Noise level (dbA)				5	2				
	Vertical Models								
Model	IRILAB Next 520								
	V V-		V - DD		V - DD				
Nominal capacity (I)	520						800		
Temperature range (°C)	-40 /-86								
Supply voltage (V)*	230 V /50 Hz - 115 V /60 Hz - 230 V /60 Hz								
Refrigerant	mixed refrigerant								
External dimensions (mm)	730×854×1980 1086×890×1995								
Internal dimensions (mm)	586×613×1470				906×609×1472				
Max Boxes capacity (n°)	384	384		288	288		600 / 432		
Overall weight with standard packaging (Kg)	260			274	390			407	
Noise level (dbA)	53								

Illustration, description and technical data may be changed without notice.
-40°C and -86°C freezers certified according to 93/42/ECC directive are also available (please refer to **Blood Bank Refrigerators and Freezers** catalogue).
(*) 230V/60Hz and 115V/60Hz models are also available.





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