



M O R E   T H A N   T E C H N O L O G Y

Life Science Business Unit  
AS - Biomedical Equipment Division

Freezers - Ultrafreezers /Irilab & Platilab Series



→ **IRILAB**: to combine the high reliability of **PLATILAB** with the possibility to store up to 60.000 vials in less than 1 square meter.

PRO  
-85  
-45

Optional

- Chart recorder
- Shelf
- Drawer
- Dividers
- 23-50 mm port hole
- Bioguard®
- PT 100 probe
- Back-up system (CO2-LN2)
- Racks, boxes and dividers
- Remote cooling system





- Professional line.
- Models **H** and **V** - Running temperature: -80 /-85°C
- Models **SH** and **SV** - Running temperature: -20 /-45°C

## Technical features

**Structure** / Heavy duty structure - Epoxy powder painted with interior in top quality stainless steel (**PLATILAB**: 8/10 AISI 304 – **IRILAB**: 10/10 AISI 304).

**Insulation** / **PLATILAB**: 140 mm high pressure (40 kg/cm) polyurethane foam

**IRILAB**: 70 mm Vacuum Insulated Panels (VIP)

Stainless steel shelves adjustable in height.

Stainless steel inventory racks (optional) with cardboard boxes and dividers.

Easy to open door allows one-hand operation; two different configurations are possible:

**STD**: electromagnetic opening system with standard key,

**PLUS** : **BIOGUARD**®, a proprietary transponder opening system to manage and monitor accesses.

**Inner doors** / **IRILAB**: in composite materials (aluminium-pvc-aluminium) protect samples and improve energy efficiency.

**PLATILAB**: in anti shock polystyrene with special magnetic gaskets.

Rollers and adjustable feet for easy positioning. All our freezers go through any standard door.

Standard Port hole (Ø 23 mm)

Heated pressure compensation valve prevents vacuum formation, allowing door to be quickly re-opened

Dust Filter is front-mounted, washable and easily accessible without tools

Ethernet interface provide remote monitoring

Refrigeration plant

Hermetically sealed, two stages (Cascade cycle) compressor.

Refrigerant CFC-Free and HCFC-free

**Door opening** / **PLUS** Models: door is equipped with **BIOGUARD**® a proprietary

01 02





transponder access control system that opens the door when an authorized user presents a badge or tag (see picture).

In this way any operation relevant to the use of a freezer is completely under remote control.

The buffer battery maintains the system active for 24 hours.

Standard Models :

**PLATILAB STD**: operated by a mechanical lock and a key.

**IRILAB STD**: operated by a mechanical lock , key and button.

The buffer battery maintains the system active for 24 hours.

**Sample Safety** / The microprocessor Setting and Control system has two independent sections: temperature control, alarms managements and temperature display.

In case of power outages, the system has a rechargeable buffer battery (12V 2Ah) to maintain the alarm system active for 48 hours and is configured for a remote alarm replication.

## Technical specifications

### Horizontal Models

Model	PLATILAB 110		PLATILAB 370		PLATILAB 550	
	SH	H	SH	H	SH	H
Temperature range (°C)	-20 / -45	-40 / -85	-20 / -45	-40 / -85	-20 / -45	-40 / -85
Refrigerant gas	R404	R404 /R508 o mix	R404	R404 /R508 o mix	R404	R404 /R508 o mix
Capacity (l)	113		366		550	
Max Boxes capacity (n°)	63		210		330	
External dimensions (mm)	730 × 850 × 1080		1780 × 855 × 1140		2350 × 855 × 1140	
Internal dimensions (mm)	450 × 560 × 450		1050 × 520 × 670		1590 × 520 × 670	
Supply voltage	230 V/50 Hz - 115 V/60 Hz - 208-230 V/60 Hz					
Noise (dbA)	<52		<52		<52	<53

### Vertical Models

Model	PLATILAB 340		PLATILAB 500		IRILAB 800	
	SV	V	SV	V	SV	V
Temperature range (°C)	-20 / -45	-40 / -85	-20 / -45	-40 / -85	-20 / -45	-40 / -80
Refrigerant gas	R404	R404 /R508 o mix	R404	R404 /R508 o mix	R404	R404 /R508 o mix
Capacity (l)	322		500		832	
Max Boxes capacity (n°)	252		420		600	
External dimensions (mm)	765 × 900 × 1985		1015 × 900 × 1985		1086 × 890 × 1995	
Internal dimensions (mm)	450 × 530 × 1350		700 × 530 × 1350		906 × 609 × 1472	
Supply voltage	230 V/50 Hz - 115 V/60 Hz - 208-230 V/60 Hz					
Noise (dbA)	<52		<52		<52	<53

→ Illustration, description and technical data may be changed without notice.

03 04

01. Platilab 370 and Irilab 800.
02. Door opening with BIOGUARD®.
03. IRILAB 800 with 4 inner doors.
04. Platilab 500 with 3 inner doors and racks, with racks.





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