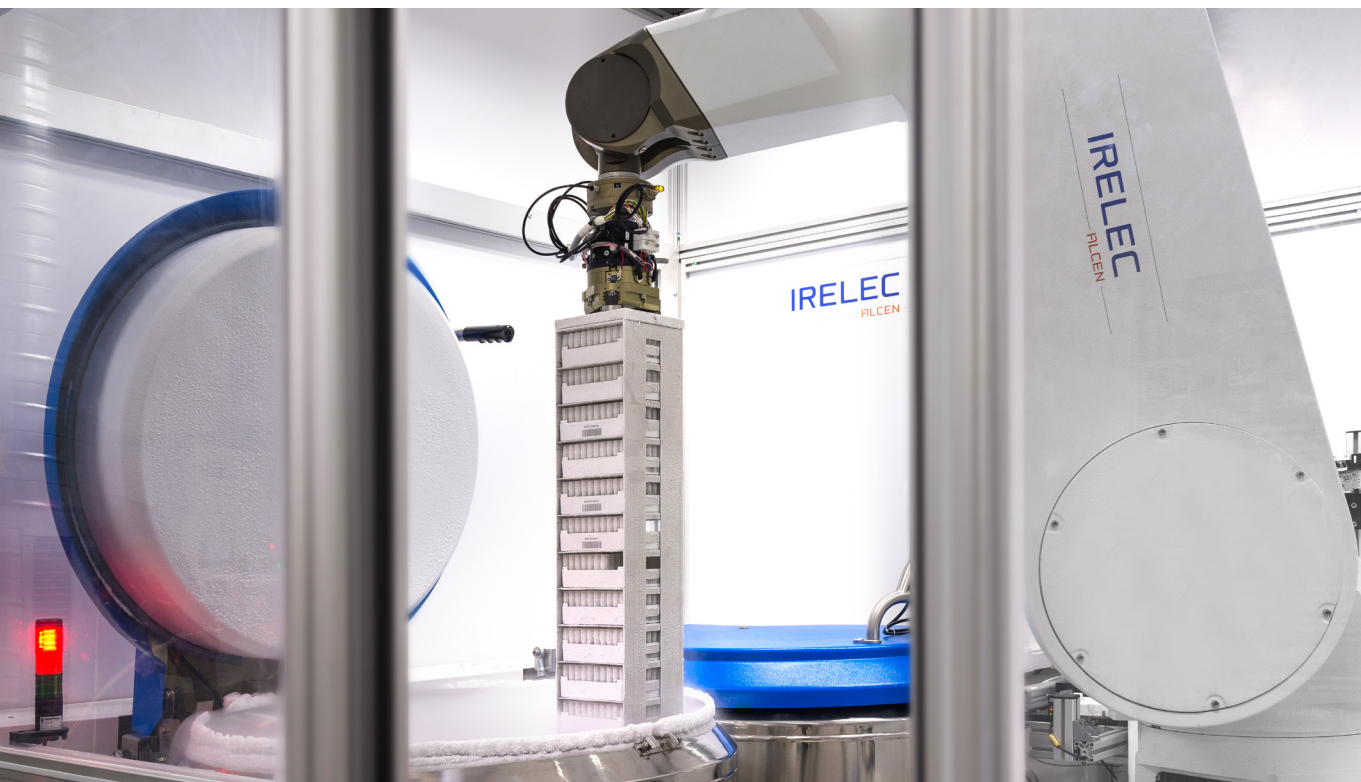


INLANDDYS

IRELEC

Stores, Tracks, Preserves

Fully-automated and secure storage system adapted to any cryogenic biorepository



integrating automation to cryogenic **biobanks**



Stores
Tracks
Preserves



User safety

- All manual operations are managed by the automated system
- Platform is closed by partitions
- Entrance of the platform is controlled



All sample traceability

- Each sample is controlled with barcode reader
- Complete history of each sample is recorded
- Full inventory is easily performed



Sample Integrity

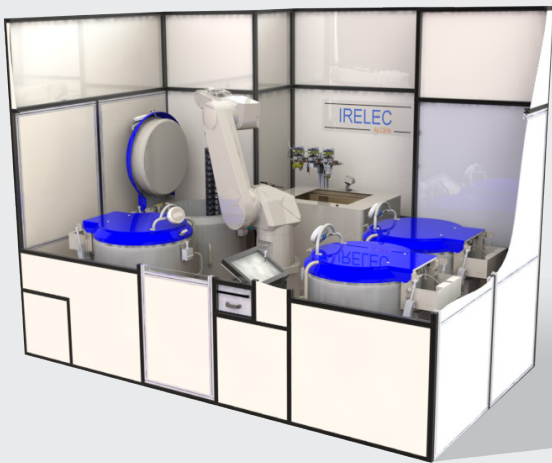
- Samples are prevented from warming above -135°C
- All critical areas are cooled with vapor nitrogen
- Transfer time at room temperature is shortened and monitored



Biobank management efficiency

- The robot takes over time consuming and delicate manipulations
- Technicians can fully concentrate on their lab work
- Operations can be performed in hidden time

INLANDYS integrates with existing tanks and LIMS, for any size of biorepository



INLANDYS® compact

Standalone
automated
platform

- On the shelf technology
- Up to 4 cryogenic tanks



INLANDYS® extended

Custom
automated
platform

- Adapted to specific environment and constraints
- Unlimited number of tanks

Technical data

Main features

Storage	Vapor or liquid phase cryogenic storage
Safety	Physical barrier with PLC
	Oxygen detector interfaced with safety PLC
	Interfaces for GN2 extraction
Cold chain management	Sample temperature maintained below -135°C
	Sample transfer station cooled down with LN2
Traceability	100% control
Human-machine	Access drawer for sample deposit and retrieval (in shuttle box)
	Local IHM with touchscreen
	Connection with LIMS
Regulations	Compliant with European Directives

Distinctive features

	compact-2	compact-4	extended
Dimensions (w × d × h)	2.80 × 2.85 × 2.95 m	3.90 × 2.85 × 2.95 m	-
Weight	1 700 kg	2 500 kg	-
Cryogenic tanks	Up to 2 tanks	Up to 4 tanks	Not limited
	Standard configuration	Tanks with full opening lid ø 700 mm max.	
	On-demand configuration	All kind of tank	
Power supply	400 V / 32 A (robot Controller)	TBD	
	230 V / 16 A (PLC)		
LN2 supply	Nominal / Minimal pressure: 3 bars / 1 bar		
Compressed air	Min. 6 bars; 5 l/min; 10 µm filtering		
Communication with LIMS	Communication via FTP and/or		
	Remote access via web application		
IP	Patented Technologies		



An improved user's experience



The user programs retrieval and storage operation directly on his database software



The user prepares and puts a shuttle box (with ready to store samples or empty) on transfer drawer



The automated system INLANDYS manages completely the retrieval or the storage operation



INLANDYS system informs user when operation is finished and provides shuttle box as soon as user agrees



The user takes back the shuttle box (empty or with retrieved samples)

What our customers say

**Pr Pascal
MOSSUZ**
(CHU Grenoble /
Head of Hematology
department)

“

The sample retrieval process from nitrogen tanks is time-consuming and involves no technical added value. That's why we've brought in IRELEC's robotic sample management system, which frees up technicians to concentrate fully on their lab work.

”

**Philippe
LORIMIER**
(CHU Grenoble /
biologist)

“

The robotic system is something our in-house technicians really supported. It's a piece of modern technology that complements and facilitates their work on a day-to-day basis and with external teams. It means we can deliver faster, given that we're often called upon to deal with an increasing number of samples.

The issue for us was providing in a solution to improve user safety and sample quality.

”

IRELEC

ALCEN

Since 1985, IRELEC has been designing and producing high performance opto-mechanical equipment, biomedical robotic systems and precision instrumentation, enhancing the innovation capabilities and operational efficiency of its customers' applications in the scientific and biomedical fields.

Located in a highly dynamic European research and innovation area, IRELEC brings together multi-disciplinary expertise in reliable high technology, easy-to-use and finely tuneable equipment for the maximum benefit of a worldwide user community.



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