

Fully Automated Store for Frozen Plasma



BENEFITS OF THE HIBERNX SYSTEM:

- Simplified workflow
- Reduced running costs of low temperature storage
- Seamless integration
- Reliable temperature stability
- Customized capacity of storage

The typical downsides of traditional cold rooms now become history. The operator works in an increased temperature environment. In the new HibernX system, blood components are stored absolute safely, efficiently and handled fully automatically.

LICONIC INSTRUMENTS

LiCONiC is the world's leading supplier of automated storage systems. LiCONiC's excellent reputation is built upon 25 years of providing successful automated sample storage solutions that offer a comprehensive line of storage systems, with each system tailored to specific needs. Thousands of systems sold worldwide have resulted in the market's most comprehensive selection of Automated Biobanking Repositories.

LiCONiC is a privately held, engineering focused company. Our business is dedicated on exclusively providing innovative, high quality automated solutions for sample handling processes. Our products and our product support are highly respected in the industry by both end users and peer life science automation providers.

HIBERNX-SERIES PRODUCT OVERVIEW

The new HibernX-Series is the world's first fully automated storage system specifically designed for long-term storage of frozen plasma and reaches temperatures as low as -65°C depending on local requirements. The demand for long term storage and convenient access to stored plasma led to the development of this revolutionary instrument. The HibernX system perfectly suites the requirements of blood establishments of different types: blood donation centers, plasma collection centers and hospital blood banks.

The HibernX system now allows quick and simple storing of plasma units in PVC bags. The system's automation fully supports single tube as well as batch sample handling.

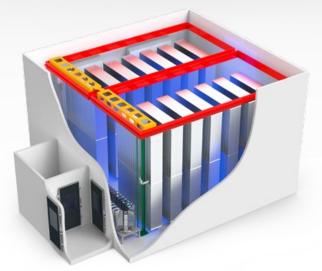
The system ensures full traceability on the stored content and individual history of each component stored within the instrument. Within minutes, plasma units are stored and retrieved based on chosen criteria, such as, donation id, quarantine status, blood group, donation date, etc. Additionally, quarantine and released material can be kept in separate partitions of the storage space.

The HibernX system operates by storing individual units on reusable trays or in disposable carton boxes, which fit on uniquely designed compact shelves. The shelves within the HibernX are accessed by an XYZ-coordinate robotic



MAIN FEATURES

- Long Term Plasma Storage at -18°C, -20°C, -30°C, -35°C, -40°C or -65°C
- Fully Automated Storage and Retrieval Process
- High Throughput Batch and Single Access
- Flexible Capacity and Configuration
- Optional Module for Storage of Archival Samples
- Convenient Access to Plasma Bags from >0°C Environment
- Best Temperature Uniformity and Stability
- Unique Compact Shelf Design
- Energy Efficient Refrigeration



handling shuttle system via tray transfer from a carousel in order to speed up the loading and unloading process. The fully featured system control software manages all storage processes and monitors temperature and other important climate conditions within the system. The interface of the control software allows simple integration in existing or commonly used LIMS system.

Temperature uniformity and stability is ensured by an energy efficient redundant refrigeration system that contains a $\rm CO_2$ back up system to safeguard the environment for the frozen plasma.

RBB CAPACITIES

The system's flexibility allows a storage layout to fit the exact number of plasma units needed by the specific application and space available at the institution. Capacities may range from being able to process 10,000 samples to over 200,000 samples, assuming plasma bag sizes of 300 ml. HibernX can also be used for the storage of plasmapheresis units of 600 to 800 ml, as well as pediatric doses of 100 ml, or any combination of the types.

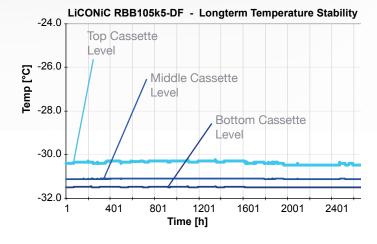


HIBERN		RBB186k0-DF	RBB242k0-DF	RBB607k5-DF
Bag Volume	Dimensions	Samples	Samples	Samples
300ml	250x135x30mm	32'032	42'000	105'300

RBB STORAGE CONDITIONS

LiCONiC's unique chest freezer design naturally creates two important benefits:

- 1) Two climate zones, one for active components at -30°C another for passive elements at -65°C
- 2) Stable horizontal temperature layers in DF storage area.

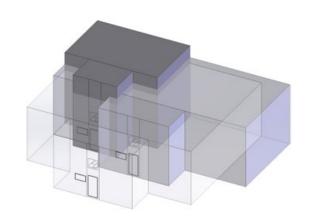


Regional Temp	peratures
Region	Setpoint
USA: AABB temperature standard for FFP	-18°C
USA: Plasma for further manufacture into critical medicines	-20°C
EU: most of the countries	-30°C
Russia	-35°C
Some Middle East Countries	-40°C
USA: long term storage	-65°C

SPACE EFFICIENCY

The HibernX Series Automated Blood Libraries make best use of given room constraints by:

- "Built to space" modular design.
- System size and layout tailored to needs and workflow requirements.



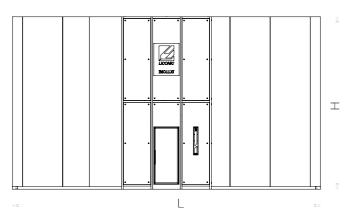
INTUITIVE SOFTWARE

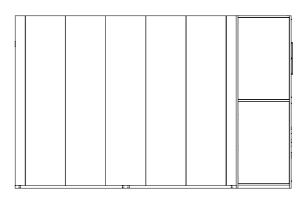
Graphical Job Creation for Import/Export of Samples			
Easy Search of Samples by Donation ID, Quarantine Status, etc.			
Complete Audit Trail			
Automatic Inventory Defragmentation			
Automatic Data Backup			
Integration to LIMS Database			
Remote Support			
Mobile Device Control			
User Access Security			

OPTIONS & ACCESSORIES

Flexible Plasma Bag Volume
Configurable to Room Constraints
Tablet Interface
External Database Integration
Remote Monitoring
Internal Vision System
Multi Bag Picker
RFID-Integration
2D - BCR Rack Scanner
Redundant Refrigeration
Dynamically Configurable Storage Cassettes
External Interface Station

RBB DIMENSIONS





	M
	M S

HIBERN	RBB Dimensions examples			
Type	L= Length	W= Width	H= Height	
RBB186k0-DF	9360 mm	9075 mm	3500 mm	
RBB242k0-DF	10245 mm	7605 mm	5500 mm	
RBB607k5-DF	12000 mm	11115 mm	7000 mm	

WORLDWIDE PRESENCE



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