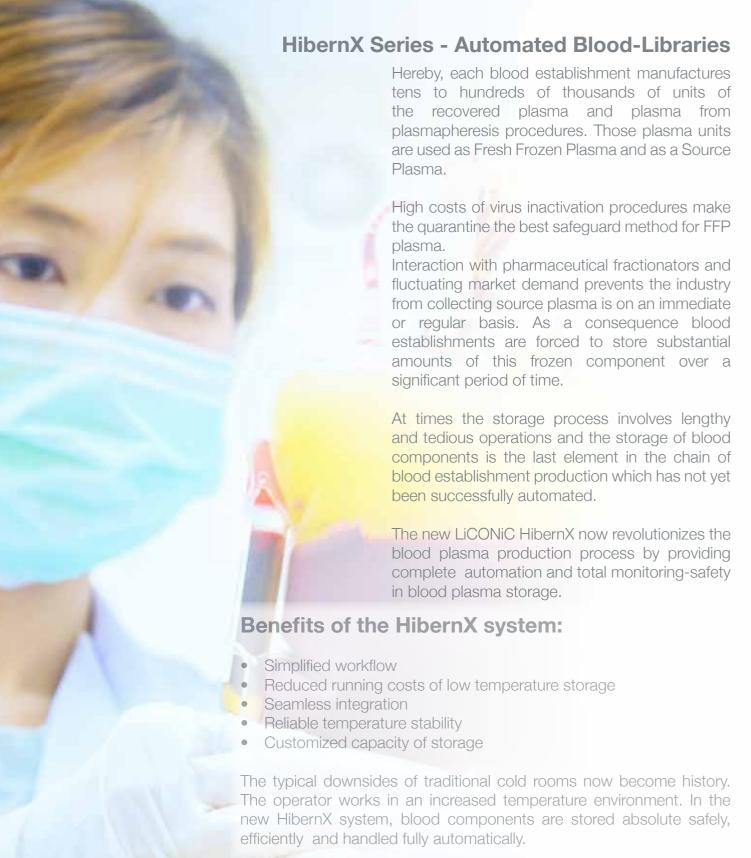


Fully Automated Store for Frozen Plasma



## **LiCONiC Instruments**

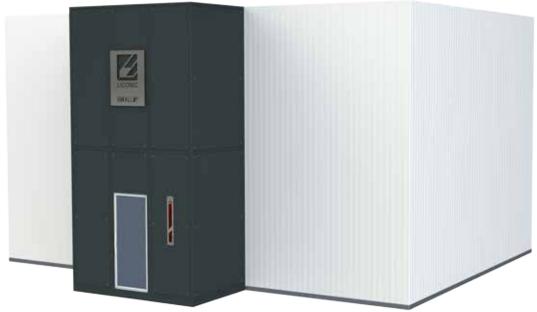
LiCONiC is the world's leading supplier of automated storage systems. LiCONiC's excellent reputation is built upon 25 years of providing successful automated sample storage solutions that offer a comprehensive line of storage systems, with each system tailored to specific needs. Thousands of systems 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 as well as batch sample handling.



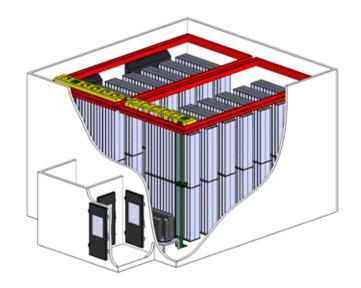
The system ensures full traceability on the stored content and individual history of each component stored within the instrument. Within minutes, plasma units are stored and retrieved based on chosen criteria, such as, donation id, quarantine status, blood group, donation date, etc. Additionally, quarantine 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 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 CO2 back up system to safeguard the environment for the frozen plasma.

## **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



## **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.

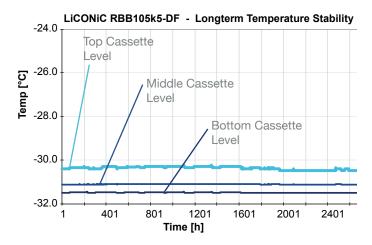
HIBERN		RBB186k0-DF	RBB242k0-DF	RBB607k5-DF
Bag Volume	Dimensions	Samples	Samples	Samples
300ml	250x135x30mm	32'032	42'000	105'300



## **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.

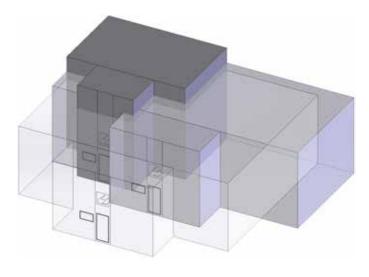


HIBERN Regional Temp	peratures
Region	Setpoint
USA: AABB temperature standard for FFP	-18°C
USA: Plasma for further manufacture into critical medicines	-20°C
EU: most of the countries	-30°C
Russia	-35°C
Some Middle East Countries	-40°C
USA: long term storage	-65°C

# **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.



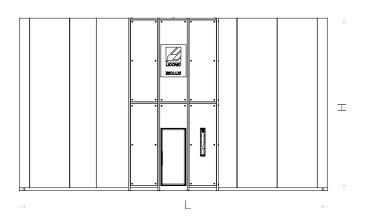
## **Intuitive Software**

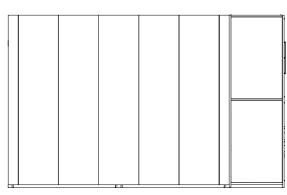
Graphical Job Creation for Import/Export of Samples				
Easy Search of Samples by Donation ID, Quarantine Status, etc.				
Complete Audit Trail				
Automatic Inventory Defragmentation				
Automatic Data Backup				
Integration to LIMS Database				
Remote Support				
Mobile Device Control				

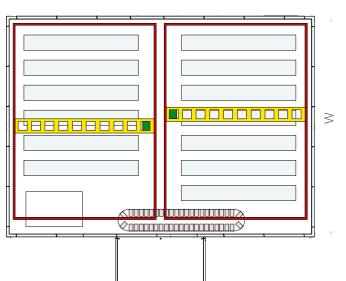
# **Options & Accessories**

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

# **RBB Dimensions**







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**



# CORPORATE LICONIC AG

LiCONIC AG Industriestrasse 8-12 9493 Mauren Principality of Liechtenstein

Phone: +423 37 36 33 9 Fax: +423 37 35 35 9 E-Mail: info@liconic.com

info@liconic.com sales@liconic.com service@liconic.com

### LiCONiC Japan K.K.

2-2-15 Daiya Bldg 2F Hamamatsu-cho, Minato-ku Tokyo Japan 105-0013

Phone: +81 3 6841 0707 E-Mail: info.japan@liconic.com sales.japan@liconic.com service.japan@liconic.com

# **LiCONiC Services Deutschland GmbH**

Bahnhofsplatz 3 D-56410 Montabaur Germany

### LiCONiC China Co. Ltd

1-B102, No.3891, Jinxiu Rd Shanghai (201204), R.P.China

Phone: +86 186-2156-0603

E-Mail: info.china@liconic.com
sales.china@liconic.com
service.china@liconic.com

### **LiCONIC UK Ltd**

BioHub Alderley Park Macclesfield Cheshire, SK10 4TG United Kingdom

Phone: +44 (0) 1618 752 542 +44 (0) 1618 752 543 Fax: +44 (0) 1618 752 540 E-Mail: info.uk@liconic.com sales.uk@liconic.com service.uk@liconic.com

### LiCONiC US, Inc.

21-F Olympia Ave Woburn, MA 01801 USA

Asia:

Phone: +1 (760) 522-2455

E-Mail: info.asia@liconic.com
 sales.asia@liconic.com
 service.asia@liconic.com



