



-80°C  
-40°C  
-20°C  
RT

  
**STC**  
Series

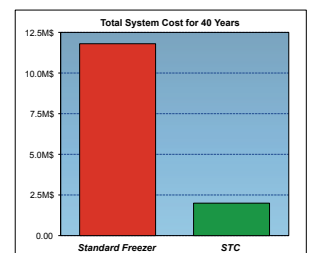
**BiO.Li.X!**

# Automated Bio-Libraries - STC Series

LiCONiC builds on 25 years of experience in providing climate controlled sample storage automation to offer the STC Bio-Library Storage System. The STC series, one of the four Biobanking solutions in the BiOLiX! family of automated Biobanking storage products, offers the broadest range of application and sample capacity requirements. First installed in 2008, the STC is the longest continuously running -80C automated storage system solution on the market. System design features and LiCONiC's continual product development commitment continue to evolve in parallel with changing Biobanking methods and requirements.

## Energy Efficiency

The STC series delivers an industry leading return on investment by all standards. Through the utilization of a compressible shelf storage system, which is maintained within a chest freezer, our proprietary refrigeration design reduces power consumption to a fraction of the nearest competitor.



## Main Features

- Ultra low temperature
- Unique compact shelf design
- Fully automated sample picking & tracking
- Compatible with all SBS rack formatted tubes and vials
- Ultra low energy refrigeration technology
- Multiple levels of sample safety backup
- External transfer station for integration
- Fully featured system control software
- LIMS and robotic workcell integration

## STC Series Product Overview

The STC series of automated sample stores address the widest range of sample storage applications at temperatures from +25°C to -80°C

- Small molecule compound storage
- Diagnostics
- Population based biobanks
- Disease based biobanks
- Research biobanks
- Reagent storage
- Core sample storage facilities

Unique frost free chest freezer and compressible shelf designs provide:

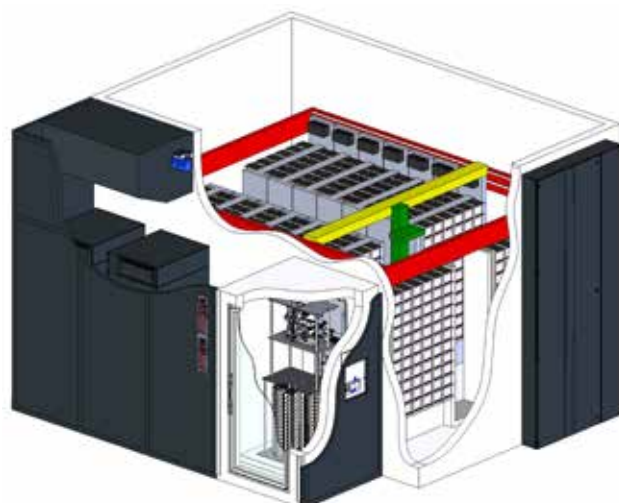
- Maximum storage density
- Temperature uniformity and stability
- Extremely energy efficient refrigeration

The STC series storage systems are ideally suited for a wide range of storage applications ranging in size from approximately 100k to millions of samples, and for temperatures ranging from +25°C to -80°C. The STC-ULT series provides all the hallmark LiCONiC advantages such as best in class temperature stability, energy consumption, structural integrity, sample density and simple, effective, software control.



LiCONiC's exclusive compressible, high density shelf system is fully enclosed in a vacuum enhanced, insulated chest style compartment. This design exploits the natural property of sinking cold air, providing for an extremely energy efficient enclosure for all temperature ranges.

A multi-function Input/Output Interface and tube picking station is confined to a single system area to prevent moisture ingress and to provide easy service access. A fully redundant refrigeration system is the first of multiple sample safety levels.

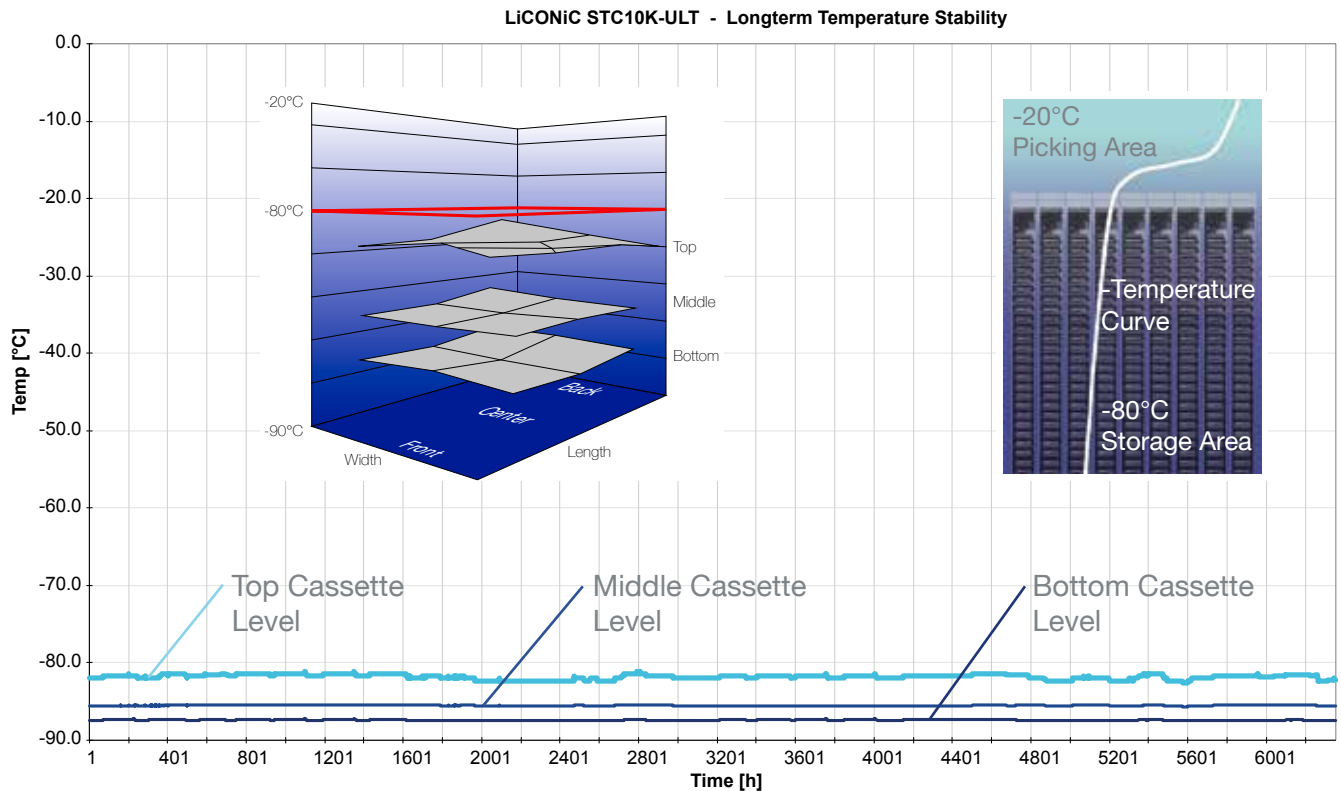


# STC Capacities

BiO.Li.X! STC Series examples			STC6k0-ULT		STC32k5-ULT		STC101k0-ULT	
Labware	Plate height	Pitch	Levels	Samples	Levels	Samples	Levels	Samples
FluidX 0.3 ml Screw Cap	19.1 mm	25 mm	42	524'160	50	2'880'000	78	8'985'600
Micronic 0.5 ml Screw Cap	28.5 mm	35 mm	30	374'400	35	2'016'000	55	6'336'000
LVL LX1000	45.6 mm	52 mm	20	249'600	24	1'382'400	37	4'262'400
Thermo Matrix 1.0ml Screw Cap	54.6 mm	61 mm	17	212'160	20	1'152'000	32	3'686'400
Greiner Bio One 2 ml	48.0 mm	54 mm	19	118'560	23	662'400	36	2'073'600

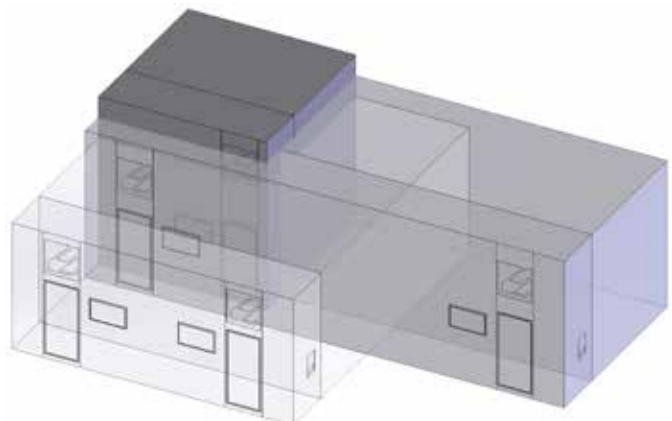
# STC Storage Conditions

LiCONiC's unique chest freezer design naturally creates two important benefits:  
 Two climate zones, one for active components at -20°C another for passive elements at -80°C.  
 Stable horizontal temperature layers in ULT storage area.



# Space Efficiency

The STC series Automated BioLibraries make best use of given room constraints by its “built to space” modular design. System dimensions and layout are optimised to the individual application's needs and workflow requirements.



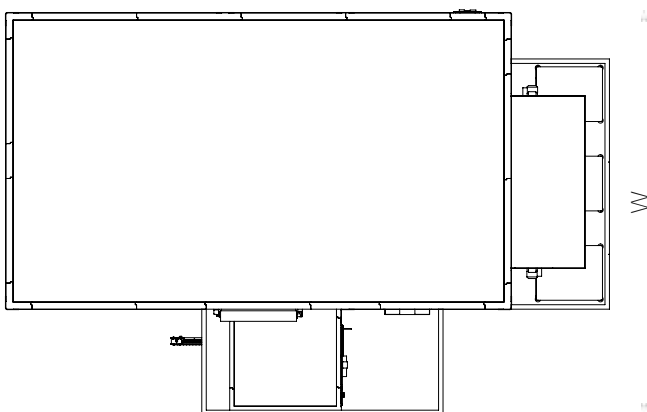
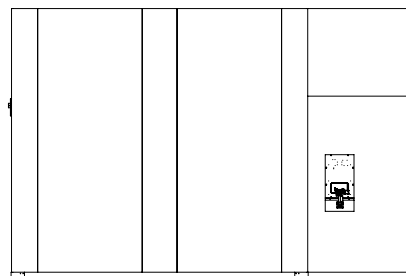
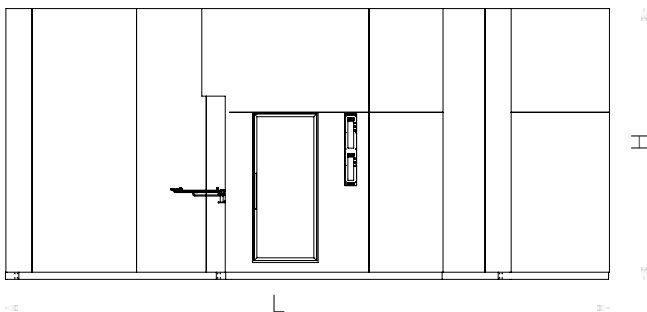
## Intuitive Software

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

## Options & Accessories

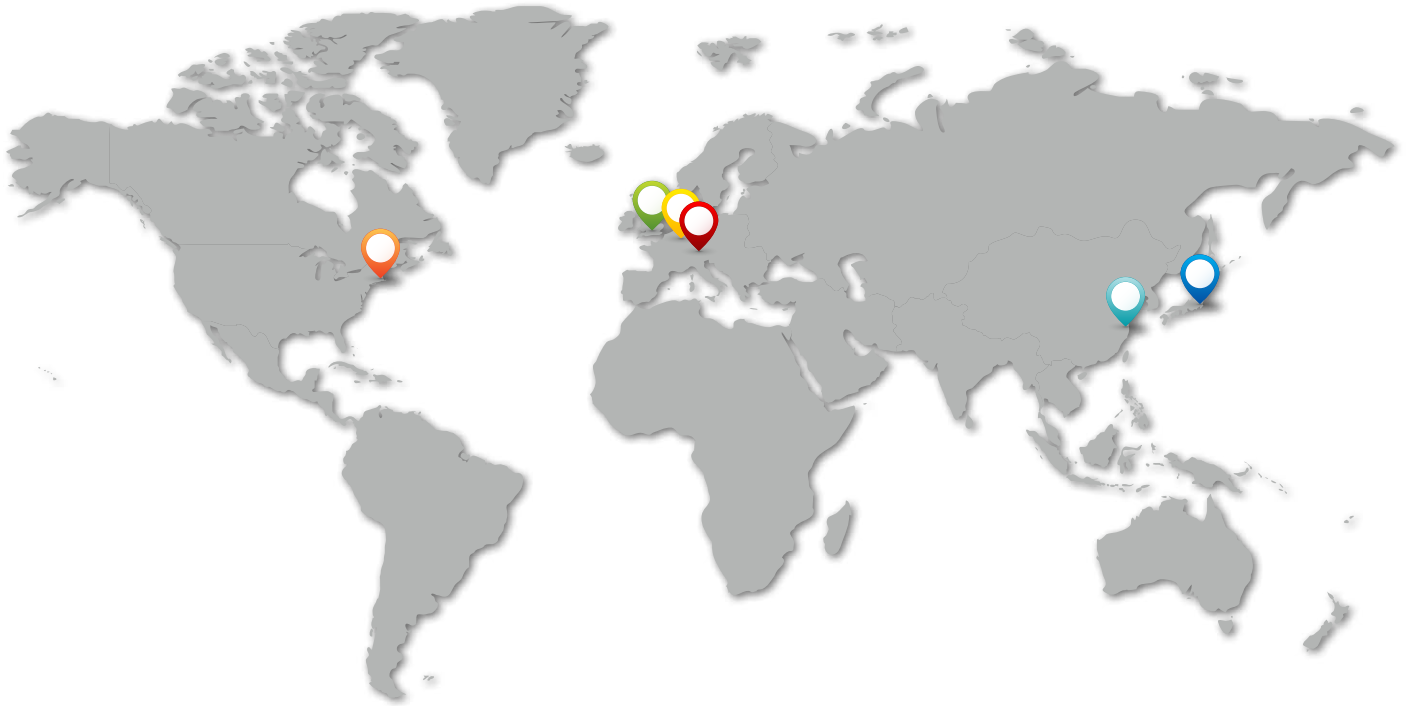
- Barcode Reader
- Flexible Labware Support
- Configurable to Room Constraints
- Tablet Interface
- External Database Integration
- Remote Monitoring
- Internal Vision System
- Multi - Tube / Vial Picker
- LN2 - Backup Option
- 2D - BCR Rack Scanner
- Redundant Refrigeration
- Dynamically Configurable Storage Cassettes
- External Interface Station

## STC Dimensions



BiO.Li.X! STC Dimensions examples			
Type	L= Length	W= Width	H= Height
STC6k0-ULT	5580 mm	2340 mm	2830 mm
STC32k5-ULT	6755 mm	4495 mm	3030 mm
STC101k0-ULT	11115 mm	4495 mm	4030 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  
sales@liconic.com  
service@liconic.com

## **LiCONiC Services** **Deutschland GmbH**

Bahnhofsplatz 3  
D-56410 Montabaur  
Germany

**Phone:** +49 2602 997 4557  
**Fax:** +49 2602 997 4559  
**E-Mail:** info.de@liconic.com  
sales.de@liconic.com  
service.de@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

**Phone:** +1 (781) 309-3340  
**Fax:** +1 (781) 537-6173  
**E-Mail:** info.usa@liconic.com  
sales.usa@liconic.com  
service.usa@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 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

## **Asia:**

**Phone:** +1 (760) 522-2455  
**E-Mail:** info.asia@liconic.com  
sales.asia@liconic.com  
service.asia@liconic.com



Information within this document is subject to be changed without prior notice. For details please contact our applications at info@liconic.com. 20170807



[www.liconic.com](http://www.liconic.com)