-80°C
-40°C
-20°C
RT

BiO.Li.X!
STC-SERIES - AUTOMATED BIO-LIBRARIES

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 -80°C automated storage system solution on the market. System design features and LiCONiC’s continual product development commitment, continue to evolve 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 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 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 with 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.

Unique frost free chest freezer and compressible shelf designs provide:
- Maximum storage density
- Temperature uniformity and stability
- Extremely energy efficient refrigeration

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
STC STORAGE CONDITIONS

LiCONICs unique chest freezer design naturally creates numerous benefits. Two of the most important are: Two climate zones, one for active components at -20°C and another for passive elements at -80°C. Proven, stable, horizontal temperature layers within the 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.
STC CAPACITIES

<table>
<thead>
<tr>
<th>BiOLiX! STC-Series examples</th>
<th>STC6k0-ULT</th>
<th>STC32k5-ULT</th>
<th>STC101k0-ULT</th>
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<tbody>
<tr>
<td>Labware</td>
<td>Plate height</td>
<td>Pitch</td>
<td>Levels</td>
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<td>FluidX 0.3 ml Screw Cap</td>
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<td>Micronic 0.5 ml Screw Cap</td>
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<tr>
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<td>Greiner Bio One 2 ml</td>
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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

<table>
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<tr>
<th>Type</th>
<th>L= Length</th>
<th>W= Width</th>
<th>H= Height</th>
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WORLDWIDE PRESENCE