SAB-SERIES - AUTOMATED BIO-LIBRARIES

The SAB-Series combines sample safety, sample density, and power efficiency design principles of the BiOLiX! products, but also accommodates the very specific operational needs of collections with diverse and unpredictable tube and rack types. The SAB also provides an extremely easy pathway to transition manual freezer repositories into automation operations.

Biobanking is becoming more and more complex with growing sample types, methods and organizations. Centralization of collections and services is often a key component of biobanking operations. Large sample collections with diverse sample types and non-standardized labware present a challenge to operational and cost efficiency. LiCONiC Instruments is a leader in dedicated, application driven sample storage automation. The SAB series of the BiOLiX! Bio-Library Sample Storage product family specifically addresses the need of this rapidly growing sample management sector.

Energy Efficiency

The SAB-Series delivers an industry leading return on investment by all standards. The combination of a highly space optimized storage layout, unique chest freezer design and our proprietary refrigeration design, reduces power consumption to a fraction of what is known in the market today.

MAIN FEATURES

- Temperature range -25°C to -80°C
- Semi-automated / high throughput
- Large sample capacity
- Exceptional frost control
- Individual sample tracking and picking option
The SAB-ULT-Series is designed for biobanking applications where the primary objective of the storage is long term sample safety and efficiency for storage processes and capacity. This series offers the same advantages as other LiCONiC store lines but caters to the needs of large legacy collections and long term collection arrangements, where odd and variable sized containers and rack sizes are frequently encountered. The SAB-ULT-Series simplifies the sample storage/retrieval process and ensures that sample integrity is maintained in perpetuity. The SAB storage area is flexibly configurable to accommodate many container varieties simultaneously and to be changeable over time to adapt to new container types and proportions in storage. Transitioning sample collections from legacy storage arrangements to the automated environment of the SAB is easy with fully configurable storage cassette sizes. Ideal for legacy cryobox collections - No reformatting required.

The SAB-ULT-Series is designed for the unique challenges of large biobank sample collections.

Examples of appropriate applications:
- Genetic or disease based population cohort studies
- Forensic samples studies
- Cellomic samples
- Genomic samples
- Transitioning large collections from manual to automated storage
- Core facility receiving many odd or unpredictable sample storage
- Container varieties

Full rack or picked, individual sample retrieval options available.
SAB CAPACITIES

<table>
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<tr>
<th>Labware</th>
<th>Plate height</th>
<th>Pitch</th>
<th>Levels</th>
<th>Samples</th>
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SAB STORAGE CONDITIONS

The SAB-Series features climate control design found across the BiOLiX! product family. These features result in high density, temperature stable, and power efficient sample storage. As with the SAB-Series, single, chest style storage combines with LiCONIC’s proprietary dual temperature zone design to provide temperature stability, excellent humidity control and easy service access to robotic components.

LiCONIC’s 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 SAB-Series Automated BioLibraries makes best use of given room constraints by its “built to space” modular design. System dimensions 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

SAB DIMENSIONS

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<tr>
<th>Type</th>
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<th>W= Width</th>
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