

FAB-SERIES -FULL AUTOMATED BIO-LIBRARIES

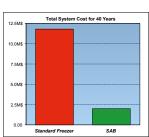
The FAB-Series combines sample safety, sample density, and power efficiency design principles of the BiOLiX! products, but also accommodates the very specific operational needs of collections with diverse and unpredictable tube and rack types. The FAB also provides an extremely easy pathway to transition 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 labware present a challenge to operational and cost efficiency. LiCONiC Instruments is a leader in dedicated, application driven sample storage automation. The FAB series of the BiOLiX! Bio-Library Sample Storage product family specifically addresses the need of this rapidly growing sample management sector.

Energy Efficiency

The FAB-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





MAIN FEATURES

- Temperature range -25°C to -80°C
- Full-automated / high throughput
- Large sample capacity
- Exceptional frost control
- Individual sample tracking and picking option

WORLDWIDE PRESENCE



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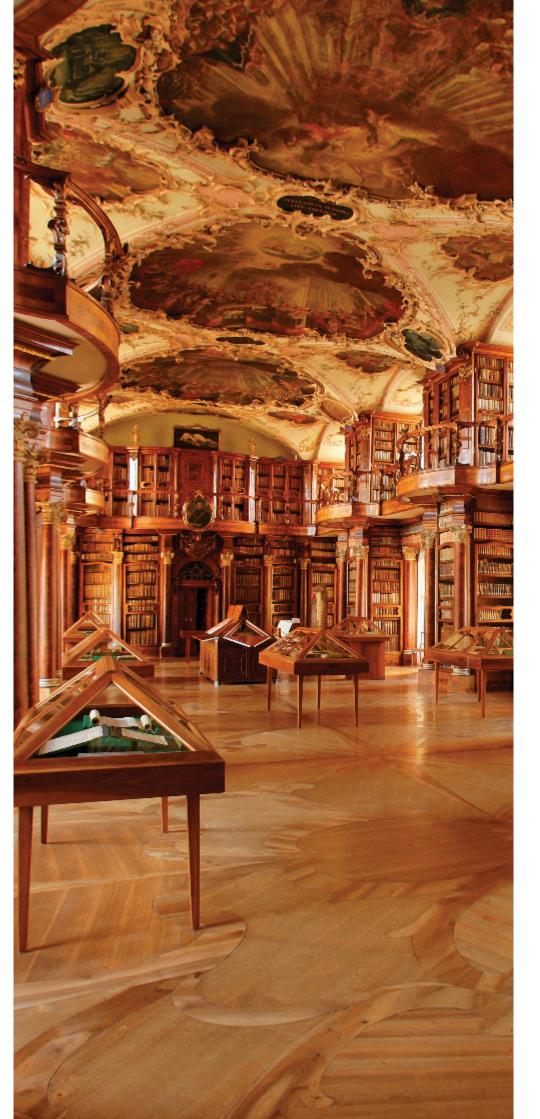
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-80°C -40°C -20°C





FAB-SERIES PRODUCT OVERVIEW

The FAB-ULT-Series is designed for biobanking applications
The FAB storage area is flexibly configurable to capacity. This series offers the same advantages as other and proportions in storage. frequently encountered. The FAB-ULT- Series simplifies the sizes. sample storage/retrieval process and ensures that sample intergrity is maintained in perpetuity.

where the primary objective of the storage is long term accommodate many container varieties simultaneously and sample safety and efficiency for storage processes and to be changeable over time to adapt to new container types

LiCONiC store lines but caters to the needs of large legacy Transitioning sample collections from legacy storage collections and long term collection arrangements, where arrangements to the automated environment of the odd and variable sized containers and rack sizes are FAB is easy with fully confi gurable storage cassette

FAB CAPACITIES

BiO Li X FAB-	Series exa	mples	FAB31k	k0-ULT	FAB46	k5-ULT	FAB98	k0-ULT	FAB220	k5-ULT
Labware	Plate height	Pitch	Levels	Samples	Levels	Samples	Levels	Samples	Levels	Samples
FluidX 0.3 ml Screw Cap	19.1 mm	25 mm	50	2'764'800	50	4'147'200	78	8'626'176	78	19'408'896
Micronic 0.5 ml Screw Cap	28.5 mm	35 mm	35	1'935'360	36	2'985'984	56	6'193'152	56	13'934'592
LVL LX1000	45.6 mm	52 mm	24	1'327'104	24	1'990'656	37	4'091'904	37	9'206'784
Thermo Matrix 1.0ml Screw Cap	54.6 mm	61 mm	20	1'105'920	20	1'658'880	32	3'538'944	32	7'962'624
Greiner Bio One 2 ml	48.0 mm	54 mm	23	635'904	23	953'856	36	1'990'656	36	4'478'976





FAB STORAGE CONDITIONS

The FAB-Series features climate control designtoprovidetemperaturestability, excellent family. These features result in high density, to robotic components. temperature stable, and power efficient LiCONiC's proprietary dual temperature zone of the most important are:

design found across the BiOLiX! Product humidity control and easy service access

sample storage. As with the FAB-Series, LiCONiC's unique chest freezer design single, chest style storage combines with naturally creates numerous benefits. Two



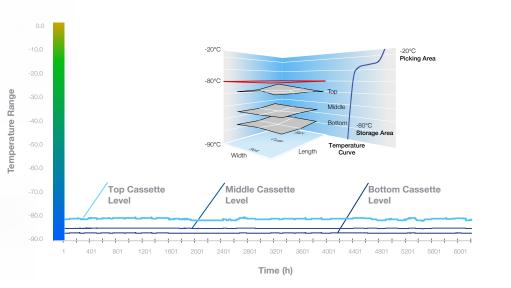
Examples of appropriate applications:

- 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.



Multi - Tube / Vial Picker

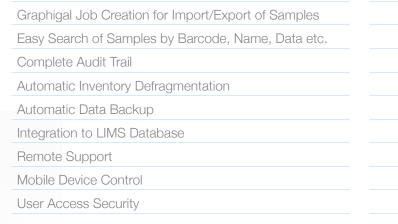


Two climate zones, one for active components at -20°C and another for passive elements at -80°C. Proven, stable horizontal temperature layers within the ULT storage area.

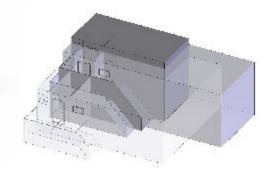


INTUITIVE SOFTWARE

OPTIONS & ACCESSORIES



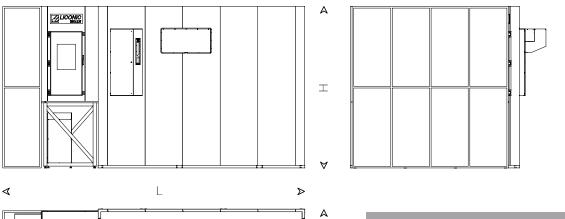
Barcode Read
Flexible Labware Suppo
Configurable to Room Constrain
Tablet Interface
External Database Integration
Remote Monitorin
Internal Vision Syste
Multi - Tube / Vial Pick
LN2 - Backup Optio
2D - BCR Rack Scann
Redundant Refrigeration
Dynamically Configurable Storage Cassette

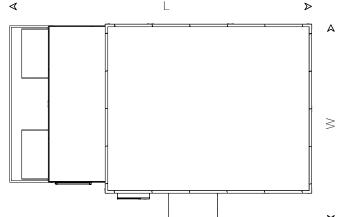


SPACE EFFICIENCY

The FAB-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.

FAB DIMENSIONS





BiOLi X	FAB D	imensions	examples
Туре	L= Length	W= Width	H= Height
FAB31k0-ULT	6085 mm	5650 mm	3530 mm
FAB46k5-ULT	8045 mm	6092 mm	3530 mm
FAB98kO-ULT	9410 mm	6092 mm	5030 mm
FAB220k5-ULT	15845 mm	6092 mm	5030 mm