

Custom BioGenic Systems

Product Guide

Dry Storage Freezers

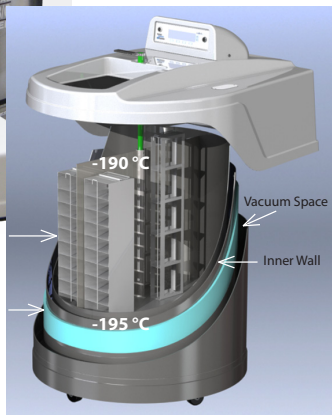
Liquid Nitrogen Freezers

Controlled Rate Freezers

Freezer Racks & Accessories

CBS Isothermal (Dry Storage) Freezers

- Cooled by a patented liquid nitrogen jacket and vents which direct vapor into the storage area.
- There is no liquid nitrogen in the sample storage area.
- The Isothermal design also provides added user safety by eliminating contact with or splashing of liquid nitrogen.



CBS Isothermal (Dry Storage) Carousel Freezers

- Dry storage greatly reduces the risk of cross contamination.
- Rotation of the carousel by the unique ratchet handle on top of the freezer reduces operator hazard.
- Easily remove one rack at a time.
- No need to remove one rack to get the one needed.
- No unnecessary exposure to room temperatures helps to maintain critical temperature stability.
- Square lid opening allows access to square racks and helps reduce LN2 consumption.
- Removable console allows access to storage area in case of emergency.

Why is dry storage important?

Safety. Storage in liquid nitrogen can make vials shrink. This may cause liquid nitrogen to seep into the vials, which on rewarming, expand and subsequently explode as nitrogen vaporizes inside the vials. Dry storage eliminates this possibility. Also, the Isothermal design provides added user safety by eliminating contact with or splashing of liquid nitrogen.

Cross Contamination. Studies have shown that viral, bacterial and fungal pathogens can survive after suspension in liquid nitrogen. Infected samples can cross contaminate other samples in the same liquid nitrogen tank. Dry storage eliminates the possibility of cross contamination.

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Standard Liquid Nitrogen Freezers / Rate Freezers / Cryosystems / Freezer Racks



CBS Standard Liquid Nitrogen Freezers

- Round, space saving design.
- Stainless steel, vacuum insulated vessel.
- Ease of operation plus flexibility to operate vapor storage, immersion storage or a combination of both to store any type or size of sample.
- Each unit includes a liquid level auto-fill and alarm system to provide security.

CBS 2101 Controlled Rate Freezer

- Laptop controller using Windows based operating system.
- Unlimited programming capability.
- Temperature range +50 °C to -180 °C.
- Temperature set points by sample or chamber.
- Continuous control status indication.
- Programs and freeze data saved to hard drive or disc.
- Password protected software.
- Searchable database for freeze run history.
- 30 data fields available for each freeze run.
- Multi-color graphing of sample, chamber and program temperature.
- Freeze run graphs and data available via any standard USB printer or free dataviewer software.
- Continuous digital and graph display for time and temperature during operation.



Each Freezer Includes:
One Temperature Probe
One Freezer Rack

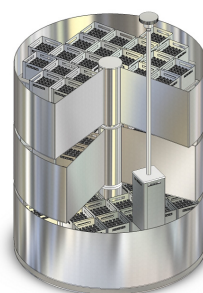
CBS Cryosystems, Lab Tanks and Dewars

- Cryosystems Classic
- Cryosystems Value Added
- Lab Tanks
- Dry Shippers



CBS Freezer Racks and Boxes

- Cryo Bag Canisters and Frames
- Upright Racks
- Chest Racks
- Drawer Racks
- LN2 Racks
- Custom Racks
- Cardboard Boxes
- Plastic Boxes
- Dividers



Multi-tiered Straw Storage Systems for V1500 & V3000

Your Local CBS Representative is:



Custom BioGenic Systems is certified by BSI to the following standards:
ISO 13485:2003
MDD 93/42/EEC

