

# Custom BioGenic Systems

## Isothermal

### Dry Storage Freezers

Patented design eliminates liquid nitrogen in the storage area.

What this means to you:

- Dry storage greatly reduces the risk of cross contamination.
- Added user safety by eliminating liquid nitrogen contact.
- Utilize the entire storage space; no space lost to bulky platforms.
- Liquid nitrogen temperatures with no liquid nitrogen contact.
- Vapor circulation provides better visibility in the storage area.
- Wide lid opening for easy access to all racks.
- Accommodates all standard rack systems.
- Industry best temperature uniformity.



#### 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 re-warming, 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.

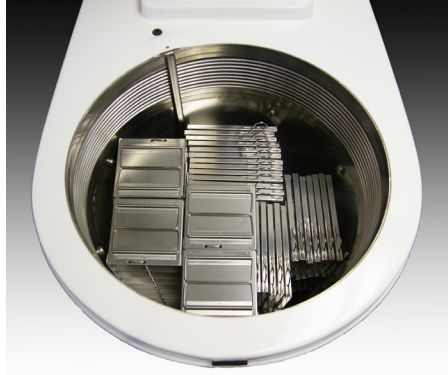
[www.custombiogenics.com](http://www.custombiogenics.com)

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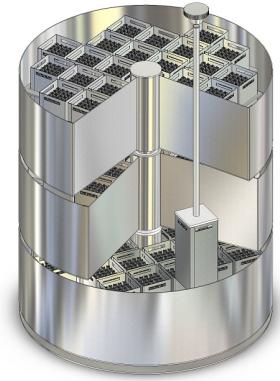
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CBS freezers offer a wide lid opening that allows easy access to all racks and provides an extensive variety of inventory solutions.



Split samples, chest racks and cryo bag storage



Multi-tiered straw storage systems for V1500 & V3000

Our 2301 controller is time tested, reliable and designed to keep your sample storage safe and secure.

#### New 16 Port Connector

- 0-5 volt outputs provide temperature & level data for connection to existing alarm/monitor system.
- 4-20 mA outputs provide temperature & level data for connection to existing alarm/monitor system.
- Sequential and One-Fill-All-Fill input and output connection for filling systems.

#### New two level temperature display option

- Temp. A displays temperature at the lid, approximately 11" (27.94 cm).
- Temp. B displays temperature inside the storage space, approximately 20" (50.80 cm).



#### Additional Features

- Records 12 alarms & events such as fill start, fill stop, etc. with dated time stamp printed or displayed.
- Download cryomonitor data files to PC and convert them to .csv files for use in Microsoft Excel.
- Ethernet and auxiliary RS485 for future expansion.
- Dedicated 24 Vdc signal output to activate a third 24 Vdc valve to control the LN2 supply.
- Global Remote Alarm - Dry contact that switches during any alarm condition.
- Data Log - Print or display Temp. A, Temp. B and level with date and time stamp.

## Specifications / Capacities

	V1500-AB	V3000-AB	V3000EH-AB	V5000-AB	V5000EH-AB
LN2 Capacity ( <i>liters</i> )	30	70	89	93	140
External Width <i>in (mm)</i>	26 (660)	37 (939)	37 (939)	47 (1,219)	47 (1,219)
External Depth <i>in (mm)</i>	37 (939)	48 (1,219)	48 (1,219)	54 (1,371)	54 (1,371)
External Height <i>in (mm)</i>	45 (1,143)	47.5 (1,206)	58 (1,473)	52 (1,320)	58 (1,473)
Usable Interior Height <i>in (mm)</i>	29 (736)	29 (736)	37 (940)	29 (736)	34 (864)
Usable Interior Diameter <i>in (mm)</i>	21 (534)	31 (787)	31 (787)	40 (1,016)	40 (1,016)
Maximum 2ml vial capacity	9,100	22,100	25,500	40,300	46,500
Maximum 50ml bag capacity	434	1,120	1,280	1,936	2,208

Your Local CBS Representative is:



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



ISO 13485:2003  
 FM 93655