

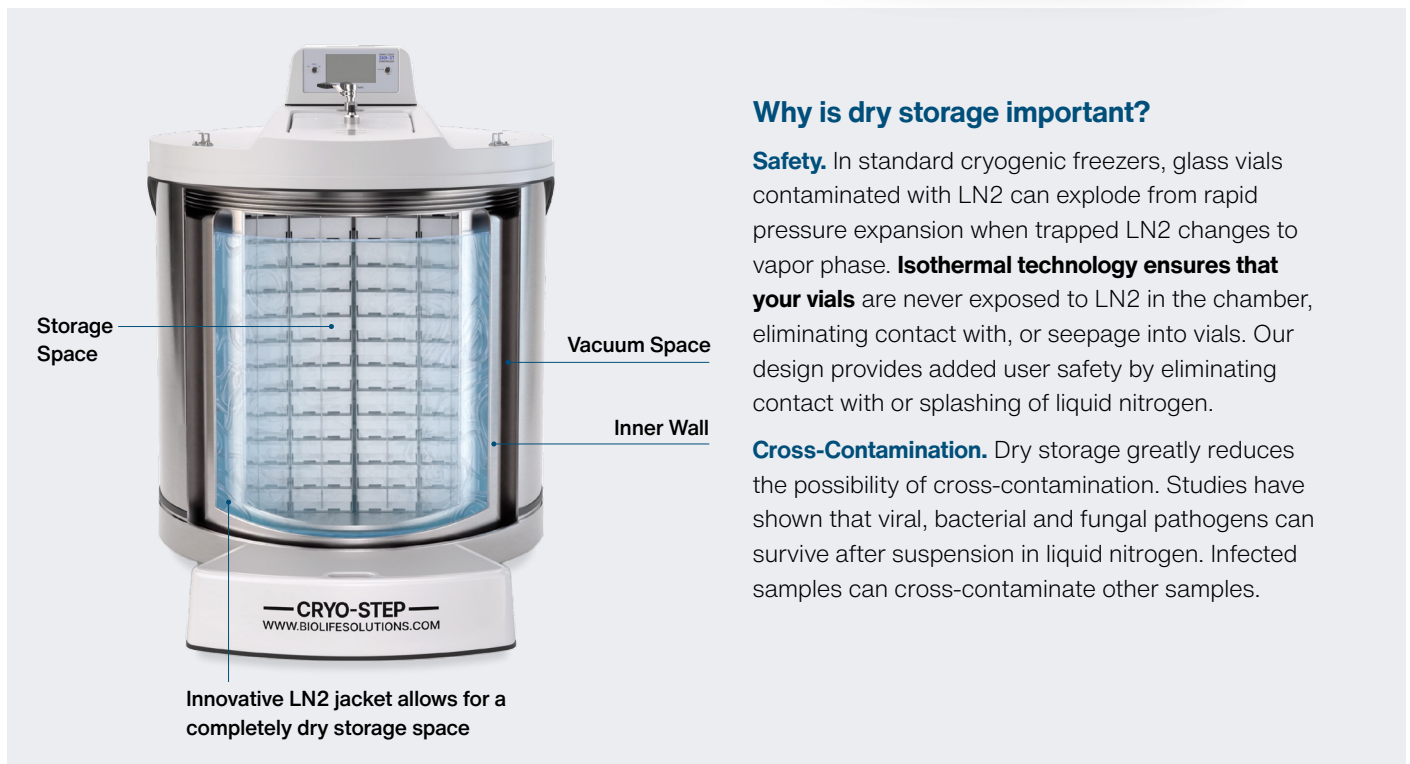
# Isothermal Carousel

**Innovative design eliminates liquid nitrogen (LN2) in the storage area.**

Our Isothermal Carousel V-Series freezers take LN2 cryogenic storage to the next level, engineered to maximize sample integrity. Our advanced technology includes an LN2 filled jacket that surrounds the chamber to provide completely dry storage, industry-leading temperature consistency throughout the chamber, and increased usable storage space.

## Hatch-style removable lid with two lid holders

- Rotating carousel with our unique ratchet handle to easily find and remove the rack you need.
- Allowing quick access to racks helps limit exposure to ambient air and reduce LN2 consumption.
- By removing the console you have quick access to racks in case of emergency.
- Carousel models are ideal for labs and buildings where there are ceiling restrictions.



## Why is dry storage important?

**Safety.** In standard cryogenic freezers, glass vials contaminated with LN2 can explode from rapid pressure expansion when trapped LN2 changes to vapor phase. **Isothermal technology ensures that your vials** are never exposed to LN2 in the chamber, eliminating contact with, or seepage into vials. Our design provides added user safety by eliminating contact with or splashing of liquid nitrogen.

**Cross-Contamination.** Dry storage greatly reduces the possibility of 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.

# Isothermal Cryogenic Dry-Vapor Freezers

**Our 2301 SmartTouch Controller is time-tested, reliable and designed to keep your sample storage safe and secure.**

## New Features

- Touch screen display to easily set temperature controls and display settings.
- Modbus enabled
- Programmable lid alarm to alert when lid is left open for user specified time.

## What differentiates CBS Isothermal Carousel Freezers?

### CBS Carousel Key Features:

- Higher capacity – 14 racks
- 16,200 2 mL vials
- Square lid opening - perfect for square racks
- Standard Cryo-Step

### Competitors:

- Lower capacity – 12 racks, 4 mini racks
- 15,600 2 mL vials
- Round lid opening problematic for square racks

**CBS Carousel V-3000AB-C Model**



**Competitors**



## Specifications/ Capacities



**V-3000AB-C**



**V-5000AB-C**



**V-3000ABEH-C**



**V-5000ABEH-C**

LN2 CAPACITY				
	70 Liters	93 Liters	89 Liters	140 Liters
MAXIMUM STORAGE CAPACITY				
<b>Vials Capacity (2 mL)</b>	16,800	36,400	21,000	42,000
<b>Cryobag Capacity (50 mL)</b>	792	1,638	1,056	1,872
UNIT DIMENSIONS				
<b>External Length mm (in.)</b>	1259.8 (49.6)	1445.3 (56.9)	1259.8 (49.6)	1445.3 (56.9)
<b>External Width mm (in.)</b>	970.3 (38.2)	1191.3 (46.9)	970.3 (38.2)	1191.3 (46.9)
<b>Usable Interior Diameter mm (in.)</b>	736.6 (29)	965.2 (38)	736.6 (29)	965.2 (38)
<b>External Height mm (in.)</b>	1292.9 (50.9)*	1475.7 (58.1)*	1582.4 (62.3)*	1602.7 (63.1)*
<b>Usable Interior Height mm (in.)</b>	685.8 (27)	736.6 (29)	914.4 (36)	863.6 (34)

\*Dimensions include the clamshell controller



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