

# We know cold.

## Exclusive Isothermal Technology for Superior Sample Integrity

Our Isothermal V-Series freezers take LN2 cryogenic storage to the next level, engineered to maximize sample integrity. Our patented technology includes a liquid nitrogen filled jacket that surrounds the chamber to provide completely dry storage and industry-leading temperature consistency throughout the chamber.

The Isothermal's proprietary jacket separates LN2 from the chamber, lowering the risk of sample cross-contamination from LN2 and increasing effective storage space.

The included Programmable Controller gives you peace of mind. The controller is designed specifically for cryogenic storage, it features dual temperature display, autofill, alarm, fill timer, exportable reports and is monitoring system ready.

### Exceptional Temperature Uniformity

A blanket of LN2 surrounding the entire wall of the storage area creates minimal temperature variation throughout the chamber.

### Reduced Risk of Cross-Contamination

Liquid-free chamber greatly reduces the chance of sample cross-contamination and eliminates the risk of liquid nitrogen leaking into sample.

### Minimal Temperature Change with Lid Open

No LN2 in the chamber so there is a minimal temperature decrease when the lid is open.

### Increased Safety

Completely dry storage area keeps your staff safe from LN2 splashes.



**CBS Isothermal LN2 freezers offer completely dry cryogenic storage, with temperatures averaging  $-193^{\circ}\text{C}$  inside the storage area.**

# The only liquid nitrogen freezers on the market offering completely dry storage.



Storage Chamber

Vacuum Space

Patented Liquid Nitrogen Jacket

### Increased Dry Storage Space

Patented jacket technology provides more storage space than traditional LN2 freezers because there is no LN2 at the bottom of the chamber. Traditional LN2 freezers have at least six inches of LN2 at the bottom.

### Quick Sample Access

Wide lid opening or square lid opening on carousel models give you easy access to all your samples without having to remove racks to find the one you need.

### Programmable Controller

Digital controller designed specifically for cryogenic storage features dual temperature display, autofill, alarm, fill timer, exportable reports and monitoring system ready.



### Variety of Sizes and Styles

Whether you need a wide lid opening or a smaller one with a carousel designed for ceiling restrictions, both give you easy access to samples.



Isothermal Carousel model with square lid



V-1500AB

V-3000AB

V-5000AB

V-3000AB-C

V-5000AB-C

V-3000EH-AB

V-5000EH-AB

#### LN2 Capacity

30 Liters

70 liters

93 Liters

70 Liters

93 Liters

89 Liters

140 Liters

#### Maximum Storage Capacity

Vials (2ml)

9,100

22,100

40,300

16,800

36,400

25,500

46,500

Blood Bags (50ml)

434

1,120

1,936

876

1,736

1,280

2,208