

Isothermal Freezers

Isothermal Cryogenic Dry-Vapor Freezers



The Isothermal V-Series freezers take LN2 cryogenic storage to the next level, engineered to maximize sample integrity.

The innovative technology includes a liquid nitrogen (LN2) filled jacket that surrounds the chamber to provide completely dry storage and industry-leading temperature consistency throughout the chamber. The Isothermal's unique jacket separates LN2 from the chamber, lowering the risk of sample cross-contamination from LN2 and increasing effective storage space.

MINIMAL TEMPERATURE VARIATION

A blanket of LN2 surrounding the entire wall of the storage area creates an exceptional temperature uniformity throughout the chamber.

REDUCED RISK OF CROSS-CONTAMINATION

Liquid-free chamber greatly reduces the chance of sample cross-contamination and eliminates the risk of LN2 leaking into samples.

MINIMAL TEMPERATURE CHANGE WITH LID OPEN

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



SmartTouch Controller

The 2301 SmartTouch Controller user interface is designed specifically for cryogenic storage and added peace of mind.



Intelligent interface

Featuring a dual temperature display, autofill, multiple alarms, fill timer, exportable reports, Modbus enabled, programmable lid alarm and is monitoring system ready.



Increased Safety

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

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

Increased Dry Storage Space

More storage space than traditional LN2 freezers because there is no LN2 at the bottom of the chamber. Traditional LN2 freezers have at least 150mm of LN2 at the bottom.

Rack configurations

Organizing the space in your freezer can help you to make your work more efficient. Good sample management can result in both cost and time savings. By choosing the right racks, not only will efficiency be increased, but the risk of sample degradation due to exposure to ambient temperatures will be significantly reduced. This is a fact, whether you store stem cells, cord blood, bone marrow or any other type of cell or tissue sample.



V-1500AB-ST - 30L



V-3000ABEH-ST - 89L



V-5000ABEH-ST - 140L

Isothermal -190°C Dry Storage Freezers						
Model Number		V-1500AB-ST	V-3000AB-ST	V-3000ABEH-ST	V-5000AB-ST	V-5000ABEH-ST
Liquid nitrogen capacity	litres	30	70	89	93	140
Dimensions						
External dimensions (W x D x H)	mm	676 x 1005 x 1211	955 x 1278 x 1250	955 x 1278 x 1463	1371 x 1450 x 1430	1371 x 1450 x 1551
Usable interior height	mm	736	736	940	736	864
Usable interior diameter	mm	534	787	787	1016	1016
Weight empty	kg	174	326	367	499	565
Weight full	kg	198	383	438	574	679
Maximum capacity						
Max. vial capacity (2ml)**	qty	9100	22100	25500	36400	46500
Max. blood bag capacity (50ml)**	qty	434	1120	1280	1936	2208

** Capacity is subject to rack type