

CryoPod™ Carrier

Portable Liquid Nitrogen (LN₂)-Based Cryogenic Transport



CryoPod™ Carrier provides a safe, reliable and portable <math>< -150^{\circ}\text{C}</math> cryogenic environment for the handling and transport of biological specimens for over 4 hours. The instrument displays and logs temperature, date and time, and features audible and visual alarms, and integrates into an optional automated filling station for hands-free replenishing of the LN₂ charge in less than 15 minutes.

Ensures operator safety

- Allows safe and quick transportation of cryogenic samples
- Hands-free auto-fill option

Maintains sample cold chain integrity

- Temperature display with audible and visual alarms
- Temperature logging and retrieval

Delivers reliable performance

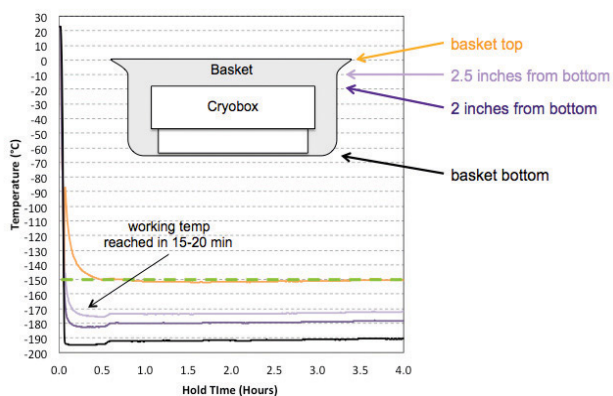
- Over 4 hours <math>< -150^{\circ}\text{C}</math>
- No direct sample contact with LN₂

Portable

- Compact footprint; only ~18 lbs
- Built-in handle and bottom finger grips

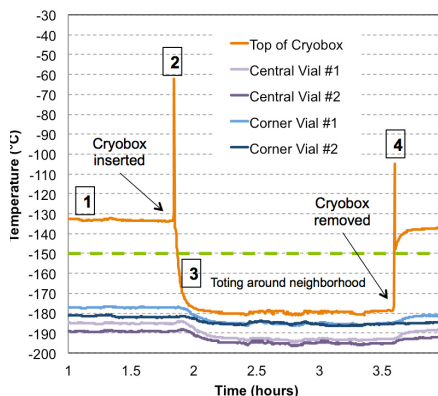


Over 4 Hour Hold Time



The entire 2.5 inch working depth of the CryoPod™ Carrier remains well below <math>< -150^{\circ}\text{C}</math> for over 4 hours with one charge of LN₂ and with the lid closed. Temperature readings were taken on the CryoPod Carrier interior basket floor, 2 inches and 2.5 inches from the floor, and on the top of the chamber for over 4 hours. The chamber is situated above the compartment containing LN₂ and there is no direct contact between the chamber contents (e.g. cryobox) and the LN₂.

Stable Temperature While Transporting



(1) Cryobox sitting in cryostorage container with 0.5 inches of LN₂ prior to insertion into CryoPod™ Carrier. (2) Cryobox inserted into CryoPod Carrier. (3) CryoPod Carrier transported by foot around local vicinity for 1.5 hours. Ambient temperature of 18-21°C (65-70°F). (4) Cryobox removed from CryoPod Carrier and inserted into LN₂ cryostorage container.

Specifications

Hold Time	Over 4 hours < -150°C with lid closed
Capacity	One 2-inch cryobox or 2-3 small cassettes
Charge	Requires < 3 L liquid nitrogen (LN ₂)
Alarm	Two settings with audible and visual signals
Lid	Magnetized foam lid for safer transport and insulation
Power	Battery operated front panel
Temperature Audit Trail	Downloadable temperature log data via USB port
Weight	~8.0 kg (~ 18 lbs) without samples
Dimensions (L x W x H)	Internal: 24.1 x 25.4 x 17.0 cm (9.5 x 10.0 x 6.7 in) External: 34.0 x 32.2 x 30.0 cm (13.4 x 12.7 x 10.2 in)

Application

CryoPod™ Carrier provides stable cryogenic sample transport and handling around the laboratory, campus or metro area. It accommodates one standard cryogenic storage box or 2-3 small cassettes.

Ordering Information

Item No.	Description
BCS-514	● CryoPod™ Carrier, including green lid
BCS-544P	● Purple lid, optional
BCS-544O	● Orange lid, optional
BCS-544PK	● Pink lid, optional
BCS-544GY	● Grey lid, optional



CryoPod™ Carrier Automatic Filling Station

The optional CryoPod™ Carrier Automatic Filling Station offers a single-button LN₂ filling solution that can be placed on a laboratory bench or floor. The Filling Station will fully charge the CryoPod Carrier within 15 minutes without the need for direct LN₂ handling by the user.

- Safe; user has no interaction with LN₂
- Hands-free, single-button filling process
- Recharges the CryoPod Carrier in less than 15 minutes
- Provides precise LN₂ fill every time
- Bench or floor mountable

