

CREDO CUBE™ SERIES 4

Superior thermal protection in a convenient mid-size container.

The Crêdo Cube™ is a passive and reusable shipper qualified to hold chilled medical materials at a safe temperature for up to five days. This system is ideal for reducing shipping costs or for circumstances in which unexpected delays may occur.

Modular TIC™ (Thermal Isolation Chamber) walls with integrated PCM (Phase-Change Material) and VIPs (Vacuum Insulated Panels) makes conditioning in a freezer for year-round shipping easy and allows effortless packing and storage.

CRÈDO CUBE™

DURATION

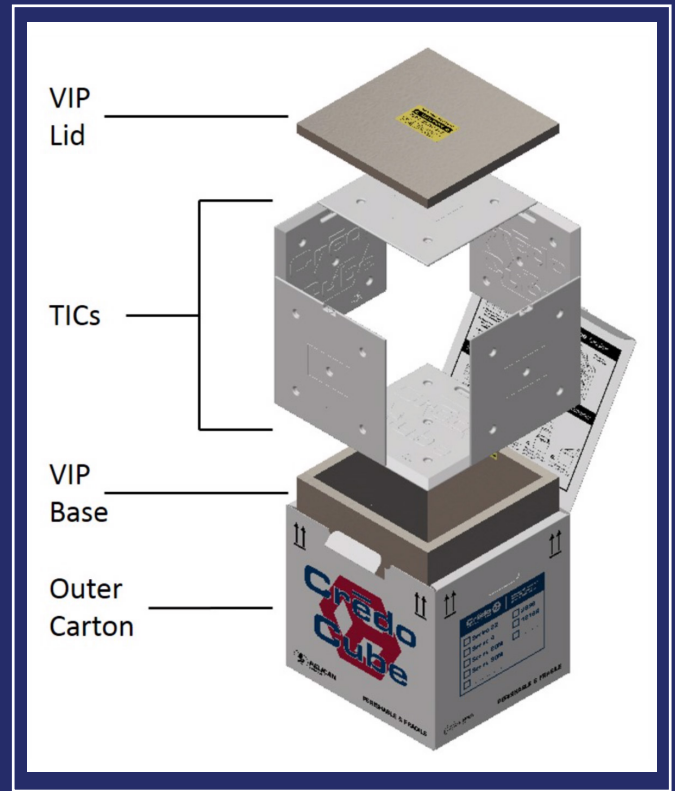
89 Hours

SERIES 4

(2°C to 8°C)

VOLUME

28L



CREDO CUBE™ SERIES 4 PRODUCT SPECIFICATIONS

Payload Size	External. Dim. (mm)	Internal. Dim. (mm)	Insulation	Outer Material	Tare Weight (kg)
28L	457 x 419 x 432	305 x 305 x 305	Single Wall VIP	White Plastic	16

CREDO CUBE™ RE-USE AND END-OF-LIFE RECYCLING

CREDO CUBE™ RE-USE

Shipping Thermal Isolation Chamber (TICs) are re-used following inspection, marking and re-conditioning to the required temperature. Polar Ice will clean and recondition the CredoCube™ TIC panels after each customer use. The Vacuum Insulator Panel (VIP) base and lid may be reused following inspection for visual damage and cleanliness. The VIPs are effective as long as they hold an interior vacuum and are inspected before each use.

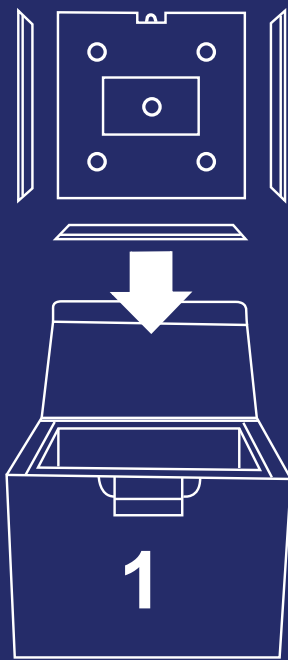


CREDO CUBE™ RECYCLING

Peli BioThermal is strongly committed to reducing the environmental impact of its product components throughout and beyond their functional life. When Crêdo™ container components do reach end of usefulness, Peli BioThermal is pleased to offer the ability to send end of life shippers back to our manufacturing facility where they will be dismantled, sorted and their materials recycled.

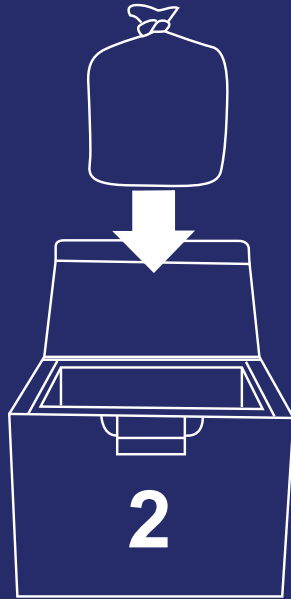


HOW TO ASSEMBLE AND LOAD THE CREDO CUBE™ CONTAINER



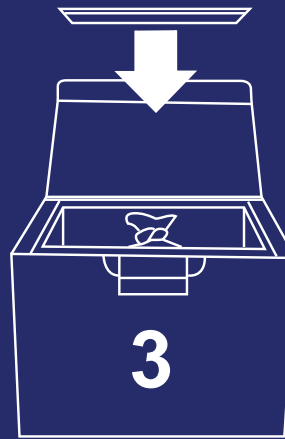
1

Insert a TIC panel into the base of the insulator with the Credo Cube logo facing up. Add 4 TIC panels to form the side walls with the Credo Cube logo facing inward.



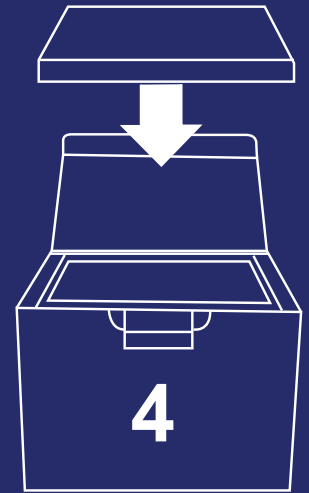
2

Insert preconditioned payload (product to be shipped) into the TIC payload area formed by step 1. Ensure the payload is conditioned at 5°C (+/- 3°C) before loading.



3

Insert the final TIC panel on top of the 4 sidewall TIC panels. Add non-insulating filler (e.g. kraft paper) to fill empty space to prevent contents from shifting during transit.



4

Place insulator lid over TIC. Without forcing, make sure the lid lies flat and level. Close and secure box with packing tape where indicated.

PHOTO REFERENCE GUIDE



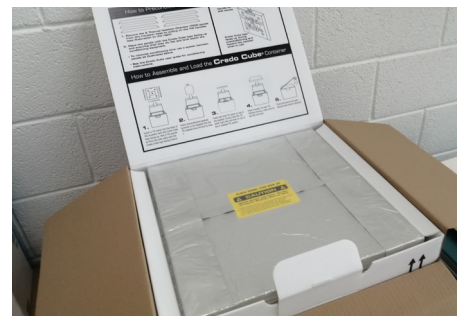
Insert TIC panel into insulator base (with the Credo Cube® embossed logo facing up).



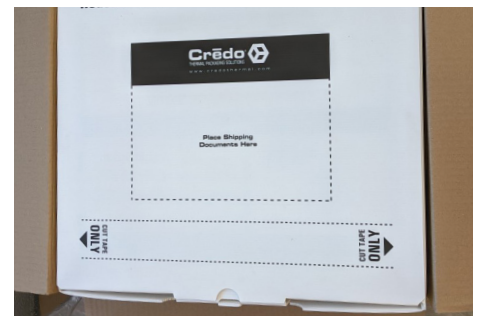
Add 4 TIC panels to form the side walls with the Credo Cube® embossed logo facing inward.



Place the final TIC Panel over the payload area ensuring the panel lies flat and level without forcing it onto TIC side walls.



Place the top VIP panel over the top TIC panel.



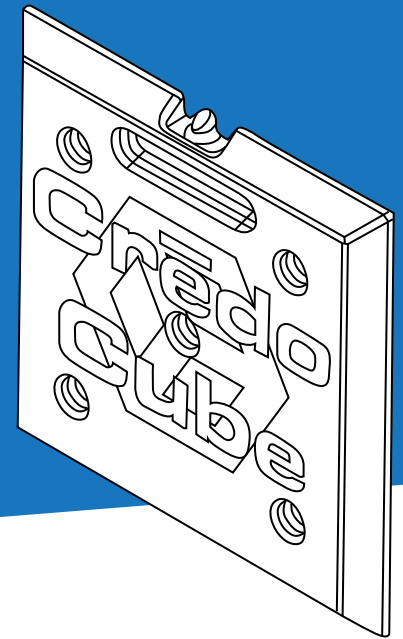
Close and secure the outer box (corrugated or plastic) with packing tape where indicated.

USE OF TEMPERATURE CONTROLLED TRANSPORT SYSTEM

Any passive thermal protection system will have a finite use period at which time it will no longer provide required temperature conditions. **The duration time of this TPS is 89 hours.** The shipping site shall inform the receiving site when the TPS has expired. This could be via:

- written documentation
- a date/time on the TPS
- and/or with a temperature monitor

If a temperature monitor is being used, should the duration time be exceeded, then the temperature monitor should provide assurance that the temperature remained within specified range. If duration time is exceeded and no temperature monitor is present, there is no assurance that the product remained within the required temperature range.



PACKING INSTRUCTIONS

The packing process must be completed at controlled room temperature or as cold as 2°C. Temperature monitoring is required. When a monitor is used, use an approved temperature monitor appropriate for the product being shipped.

Warning: Opening of a passive thermal protection system during its shipment may result in a temperature spike and/or compromise the useable duration of the container itself.

IMPORTANT: When a passive thermal protection system is used as the primary means of transportation, secondary thermal shipping containers such as refrigerated trucks or ocean reefers can have an adverse impact on passive container performance. Unless the packout is ambient universal, secondary thermal containers should be used with extreme caution. For instance, placing a summer packout into a refrigerated space may freeze the product payload. However, additional thermal protective measures may be used with no adverse effects (e.g. reflective pallet covers).

It is acceptable for the Credo Cube Series 4 to be placed in a refrigerated environment in the event of an unexpected or anticipated delay during transit time. The shipping container can be held for an extended time in the refrigerated environment to maintain the payload between 2 and 8°C.

Crêdo Cube Shipper Benefits

- Easy quick assembly and single simple pack-out for all seasons.
- Reusable patented technology that is recyclable reducing environmental impact.
- Enhanced performance and proven payload protection eliminates temperature excursions.
- Reduces overall distribution costs.
- Longevity of components = lowest cost per use.

Ensure Consistent Performance

- Always condition the TIC System before use according to instructions provided in this User Guide.
- Ensure all components are clean and free of damage.
- Follow assembly instructions printed on the inside lid of the outer box.
- Avoid unnecessary opening of the container after loading the payload.
- Ensure both TIC and VIP lids are secure before sealing the container for transport.

HOW POLAR ICE PREPARES YOUR TIC™ PANELS

1. Preconditioning of the TIC System:

- Use a shelving system with spacers (min. 1" thick) positioned between every two rows of stacked TICs.
- Place shelves with TICs into freezer set to -18°C or colder. Allow a minimum of 24 hours freeze time.

*Depending on the TIC size and **the performance of the freezer being used**, small volume preconditioning times can be **12 to 24 hours**.*

2. Staging-Time

- Once the bins have been properly preconditioned, they are moved into a refrigerated environment (recommended 4°C +/- 2°C) for no less than 48 hours.
- After the 48 hours in the refrigerated environment the TICs have reached an operating temperature range of 2.0°C to 4.5°C and are ready to use.
- Once TICs are in the refrigerated environment, they can be safely stored for up to two weeks as long as the average refrigerator temperature is less than 4.5°C.

*Depending on the TIC size and **the performance of the refrigerator being used**, minimum refrigerator conditioning time can be **4 to 30 hours**.*

CARE AND MAINTENANCE OF CREDO CUBE™ THERMAL PACKAGING SOLUTION

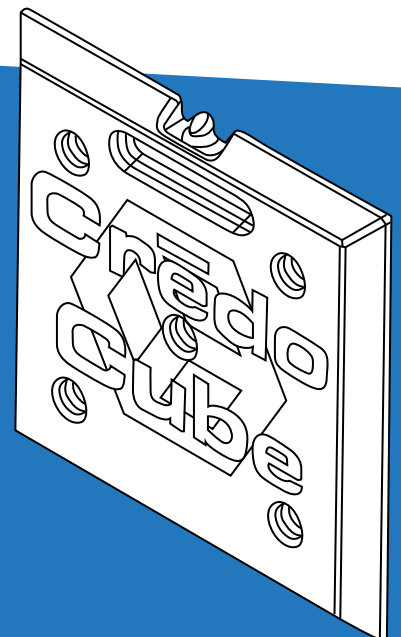
HOW POLAR ICE CLEAN YOUR CREDO COMPONENTS

TIC™ System (6 panels): Cleaned using warm water and soap or alcohol. Decontaminated using an isopropyl alcohol and water mixture (typically 70/30 mix alcohol to water) or other salt-based disinfectants.

Insulator lid and base: The insulator lid and base are cleaned using a damp towel with soap or a rag with isopropyl alcohol.

Plastic corrugated outer box: Plastic outer box by using a damp towel with a non-abrasive soap or a rag with isopropyl alcohol.

The Vacuum Insulation Panels (VIPs) in Crêdo containers are extremely effective as long as they hold an internal vacuum. Loss of rigidity indicates a compromised panel and the product should be recycled.



PolarIce Ltd

If you have any queries about the proper use of Credocubes or if you wish to book a return, please contact Polar Ice Ltd.

CONTACT US

T: +353 (0)57 862 3860
E: info@polarice.ie
W: www.polarice.ie

Unit 3 Portarlinton Ind. Est., Portarlinton, Co. Laois, R32 XR7Y, Ireland.