



Series 4-1796

User Guide



Tested To Extremes



Minnesota Thermal Science

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Made in the U.S.A.

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SPECIFICATION SHEET

Series 4-1796



Product Overview

Extended thermal protection and extreme durability in a full-size container.

A unique Pelican® outer case coupled with MTS's superior vacuum insulated panels and TIC® Insert holds critical contents at a safe temperature for up to 96 hours for safety-assured transport in the 1° to 10°C and 2° to 8°C range. Ideal for mobile blood bank use, overseas shipping or any situation calling for long-duration, rugged transport of delicate materials.

Specifications

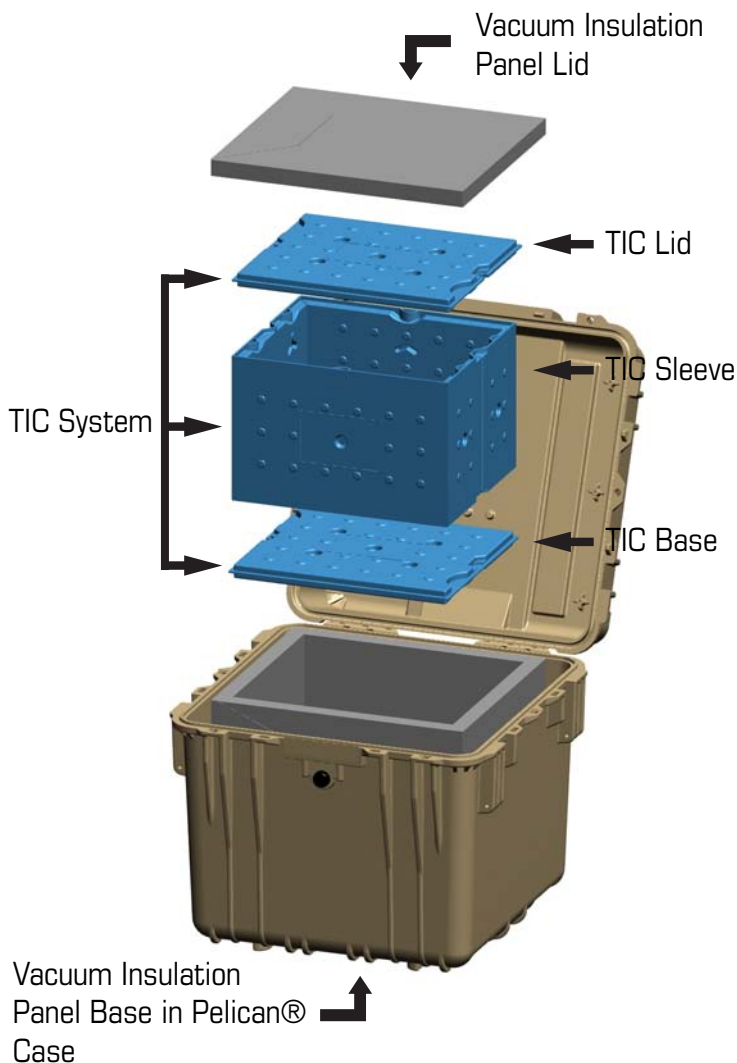
Temperature Range	Within 1° - 10°C
Payload Capacity (Liters/Cubic Inches)	17.5/1067.3
Payload Area Dimensions (LxWxH)	12.25"x10.25"x8.5"
Exterior Dimensions (LxWxH)	20.5"x20.5"x20"
Tare Weight	49 LBS
Thermal Performance (ISTA Summer Profile)	96+ Hrs
Insulator	Vacuum Insulation Panels

Ensuring Consistent Performance

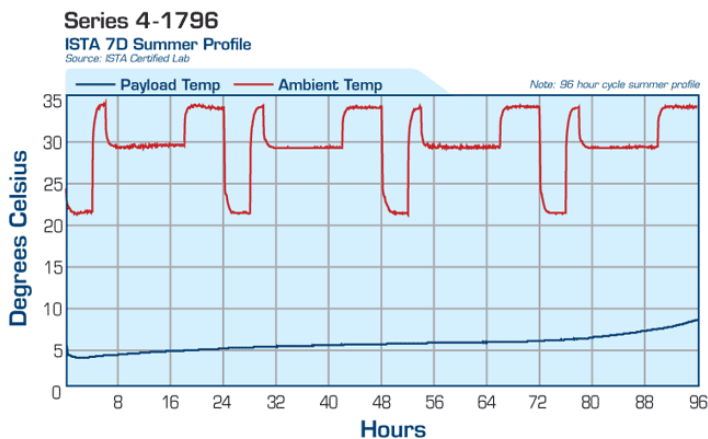
Exterior Ambient Conditions	Holds Payload 1° - 10°C
ISTA 7D summer shipping profile	96+ Hours
ISTA 7D winter shipping profile	120+ Hours
*Performance based on full payload preconditioned at 4°C	

- Always precondition TIC System before use according to instructions on TIC lid.
- Ensure all components are clean and not damaged.
- Ensure that all latches are latched on the Pelican case.
- After loading, avoid opening container unnecessarily.
- Ensure both TIC lid and VIP lid are secure before sealing for transport.

Product Components



ISTA Thermal Performance



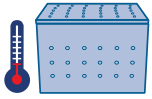
ISTA Profile: ISTA (International Safe Transit Association) provides performance testing standards, training and education. The ISTA 7D shipping profiles simulate typical temperature ranges for summer (22° to 35° C) and winter (-10° to 18° C) conditions. For more information, visit www.ista.org.

USING YOUR CREDO THERMAL PACKAGING SOLUTION

Series 4-1796



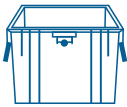
1



Precondition TIC® System

- Remove TIC (Thermal Isolation Chamber) System (lid, sleeve and base) from VIP (Vacuum Insulation Panel) base by unlatching the 6 latches on the Pelican case and removing VIP lid.
- Place TIC System in a -18°C freezer (or colder) for a minimum of 12 hours, until frozen hard. Ensure the TIC components lay flat. Before adding product payload, let stand at room temperature for 25 minutes or until surface frost melts.
- **TO PRECONDITION IN EXTREME COLD CONDITIONS:** Place the TIC System in a refrigerator between 4° to 8°C for 4 to 8 hours. Verify that the PCM is liquid by shaking.

2



Assemble TIC Base and Sleeve

- After surface frost has melted insert the TIC base into the VIP base.
- Insert TIC sleeve into the VIP by pressing in on the two long ends of the panel to form the sidewalls.

3



Load Payload

- Ensure payload (product to be shipped) is preconditioned at 4°C before loading into the TIC base and sleeve. Do not overpack.
- Add non-insulating filler to fill empty payload space to prevent contents from shifting during transit.

4



Insert TIC Lid

- Place TIC lid over payload area, ensuring lid lies flat and level without forcing onto TIC sleeve.

5



Insert VIP Lid

- Place VIP lid over TIC lid making sure it rests flat and level without forcing.
- Ensure the VIP lid does not sit on top of the 4 foam corner supports.
- Ensure that the 4 foam corners do not get caught in the lid when it is closed.

6



Close and Secure Pelican Case

- Close Pelican case and lock all 6 latches.
- Insert caster wheels into the slots provided on the bottom of the case if desired.
- Do not ship container with caster wheels installed. Remove wheels, put them in their bag and insert them to the rear of the case between the VIP and the Pelican case.



How to Clean Credo Components:

- TIC® System (lid, sleeve and base): The TIC lid, sleeve and base can be cleaned using warm water and soap or alcohol. Sterilization can be performed using alcohol or other salt-based disinfectants.
- VIP lid and base: VIP lid and base can be cleaned using a damp rag with soap or a rag with alcohol.
- DO NOT:
 1. Autoclave any of the components.
 2. Use any volatile organic compounds such as acetone or methyl ethyl ketone on any of the components.
 3. Expose any of the TIC components or VIPs to extreme heat (+75° C or above).
 4. Use any abrasive cleaners on any of the components.

How to Validate Thermal Compliance:

Minnesota Thermal Science offers certified PC based temperature data loggers that fit inside the container and provide accurate, continuous time and temperature data in Excel format. Reference our white paper “Best Practices for Validating Thermal Performance” to validate or compare the performance of any packaging solution.

How to Inspect the Pelican® Hard Outer Container:

Check to ensure all 6 latches work properly. Ensure the hinges are in working order. Ensure that the rubber seal around the base top is in tact. Verify there is no damage to the case. If damage occurs that affects the performance of the container, contact Minnesota Thermal Science for a lifetime warranty replacement.

How to Verify Components are Working Properly:

Any packaging solution should be periodically checked to ensure all components are working properly. Reference our white paper “Best Practices for Validating Thermal Performance” to validate or compare the performance of any packaging solution.

How to Inspect and Replace Vacuum Insulation Panels: (VIPs)

The Vacuum Insulation Panels (VIPs) in Credo containers are extremely effective as long as they hold an interior vacuum. Inspect VIP lid and VIP base surfaces to ensure they are gripped tight. Another indicator of a compromised panel is a loss of rigidity. A loose skin or non-rigid panel indicates vacuum loss and the product should be returned for refurbishment. Avoid removing VIP base from the Pelican case unless the case or VIP is damaged and needs to be replaced. The VIP lid and VIP base will expire and should be replaced before the expiration date printed on each panel.

Call 1-877-537-9800 if a component needs refurbishment.

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