

POLAR THERMAL PRODUCTS LTD

Part of the Aerotrim Group



AIR CARGO LD7 THERMAL BLANKET

Working with pharmaceuticals, medicals and perishables



Polar Thermal Air Cargo Equipment

Polar Thermal Products Ltd : Part of the Aerotrim Group



LD7 fully enclosed thermal cover



LD3 Thermal Liner



Air Cargo Covers



LD9 Liner



Polar Thermal Air LD7 Thermal Cover

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LD7 fully enclosed thermal cover



LD7 thermal base & thermal lid



LD7 thermal wrap attached with Velcro



MultiStack Pallet Cover

LD7 can be used with 6 x MultiStack pallet covers inside, fully encapsulating the product to provide double protection and extended cold chain life (see options on next 2 slides)

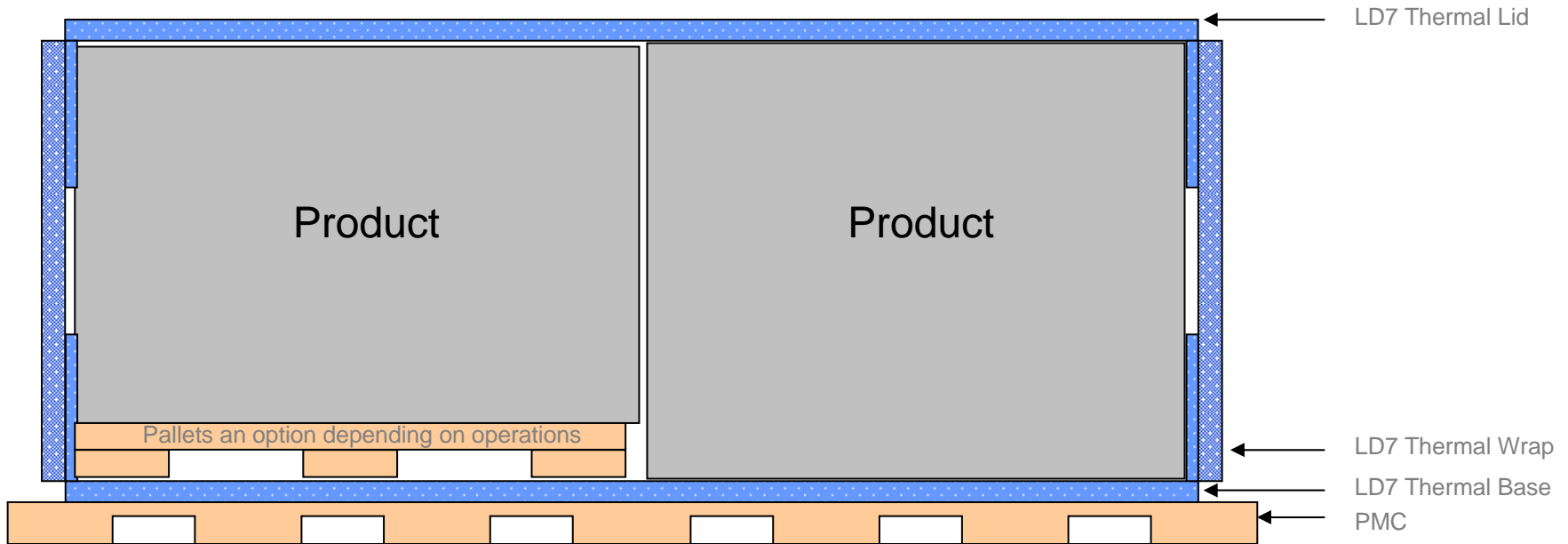


Aerotrim Polartherm LD7 'Single' Solution

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Polar Thermal Products : Thermal Pallet Cover & Base

Single Layer Fully Enclosed LD7 PMC / Thermal Pallet Cover



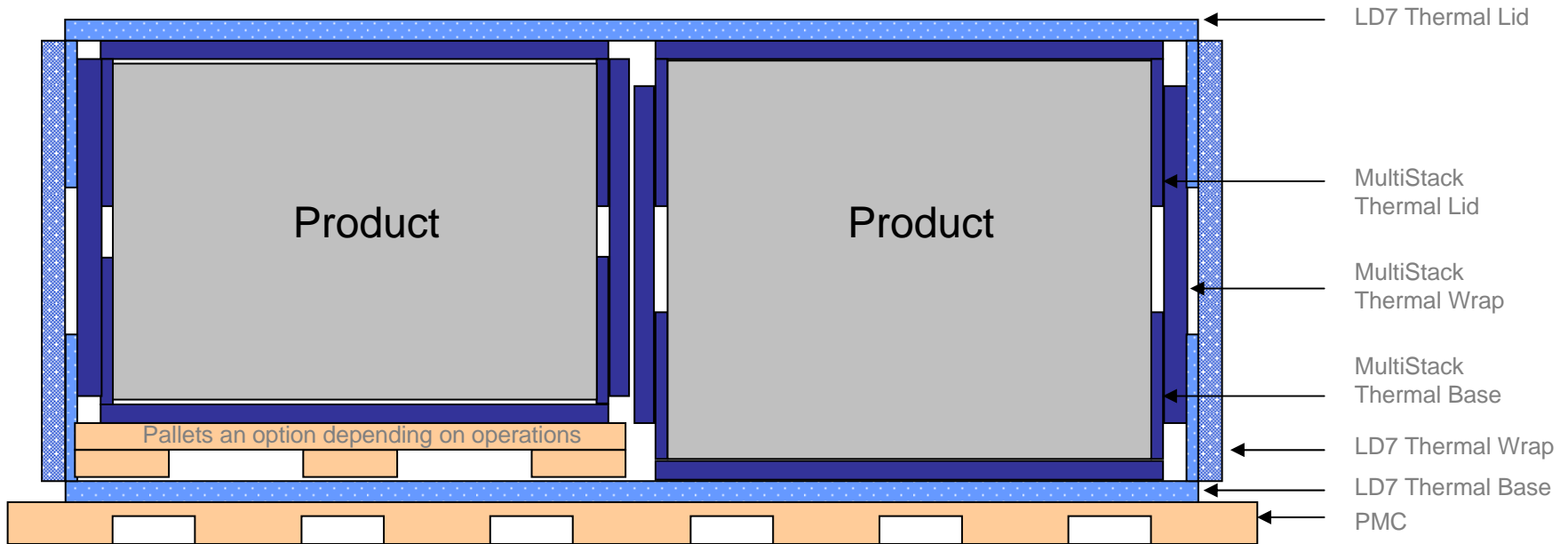


Aerotrim Polartherm LD7 'Double' Solution

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Polar Thermal Products : Thermal Pallet Cover & Base

Double Layer Fully Enclosed LD7 PMC / Thermal Pallet Cover





Testing the LD7 Thermal Cover

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Achieving Constant Passive 5°C

- What We Tested

- We flew live watercress seedlings from Florida to Gatwick, UK. This product is normally boxed with ice packs to achieve 5°C over the journey, in this test we did not use any ice, only passive thermal protection.

- Conditions - temperature changes were as follows:

1. **Transport to airport (6hrs)**
2. **Aircraft hold at 15°C (8.5hrs)**
3. **Pallet held on airport pan (2.5hrs)**
4. **Transport to customer (6hrs)**

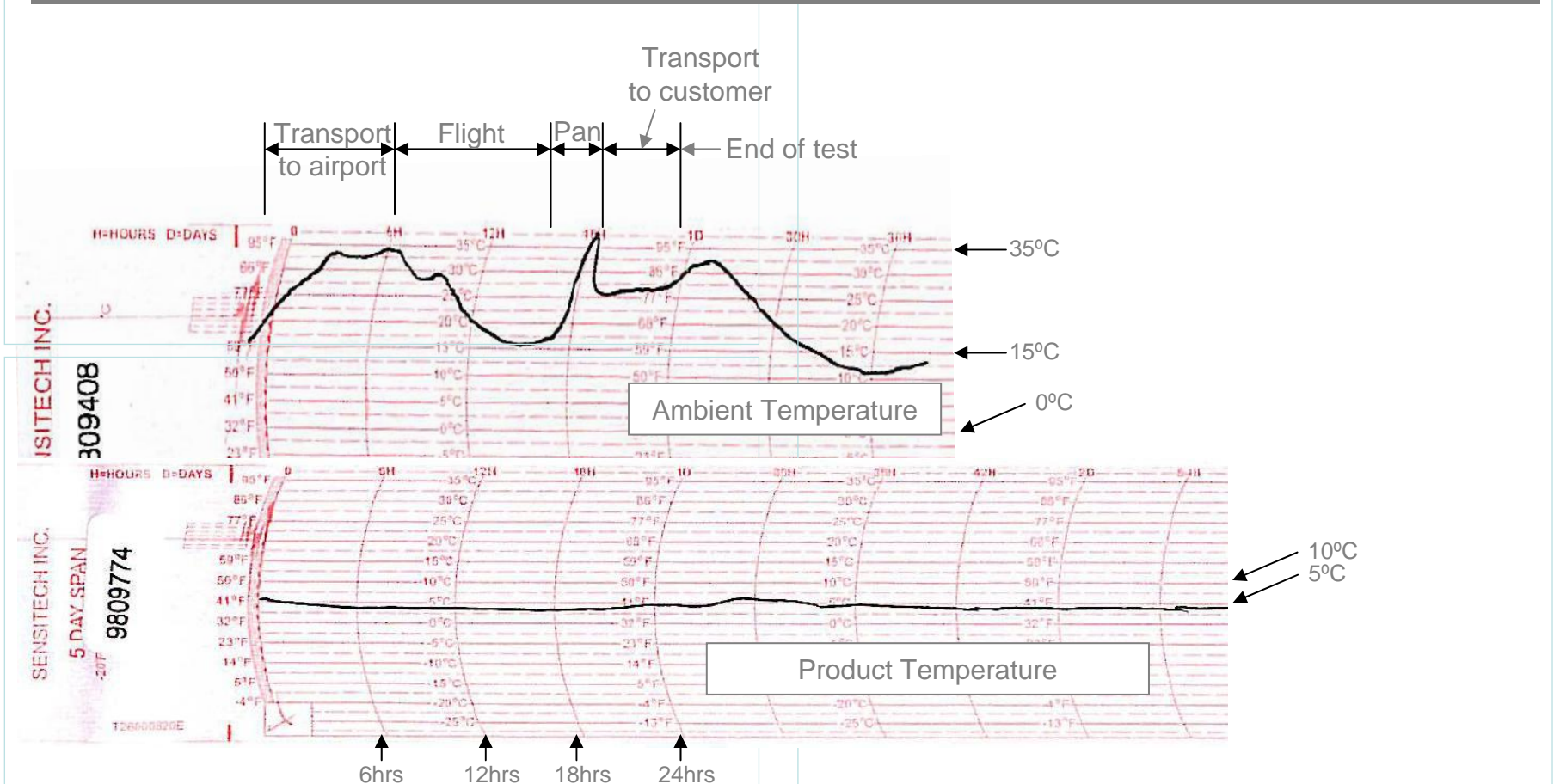
- Product contained in standard cardboard boxes
- Boxes placed on the LD7 lined with Polartherm thermal blanket unit



Testing The LD7 Thermal Cover

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Live perishables tested - air cargo from Florida to Gatwick - no ice used – totally passive





About “Polartherm”™

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Polartherm™ : High Quality Fabricated Insulation

Composition...

- Unique triple layer insulation developed from The NASA space programme
 - inner reflective layer
 - hollow fill fibre filler
 - robust woven PVC outer
 - (optionally fireproof)
- lightweight & robust
- hygienic & easily cleaned
- complies with UK and US food safety requirements



Trials ...

- Independent trials have been conducted by Cambridge Refrigeration Technology Ltd which proved that Polartherm™ has the best thermal insulating properties in its class.
- Copies of trials available on request





Advantage

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Key advantages of products made from Polartherm

- 2 year manufacturers warranty

- **Robust & durable**
- Designed for extensive **multi use** over many years whilst maintaining thermal integrity

(DHL are still using the same equipment purchased in 2000!)

- Use of marine strength materials
- Rot proof stitching
- Water proof
- Anti fungal

- **Designed for return trips**

- Light weight
- Fold away

- **Availability**

- Designed and made in the UK
- Bespoke or 'off the shelf' designs available
- Special project / product requests welcome

- Rental, lease and volume purchase options available

- **Corporate Branding**

- Various colours available
- Screen printing facility



Contacting Polar

Part of the Aerotrim Group

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