



# Temperature assured.

**For preservation  
of perfect quality**



**Packaging solutions for  
temperature-sensitive products**

**ThermoSecure**<sup>®</sup>  
medical equipment GmbH

# Wherever the journey leads – with us your products are only exposed to one climate zone

**N**o question about it – transport is the Achilles heel when it comes to temperature-sensitive products. While cooling in the factory can be continually monitored with the aid of sophisticated climate technology, manufacturers are still forced to rely, for better or worse, on the promises of packaging manufacturers and hauliers during transport. More and more regulations and specifications are coming into effect, placing you under obligations. You must meet strict transport requirements in order to ensure the quality of your products.

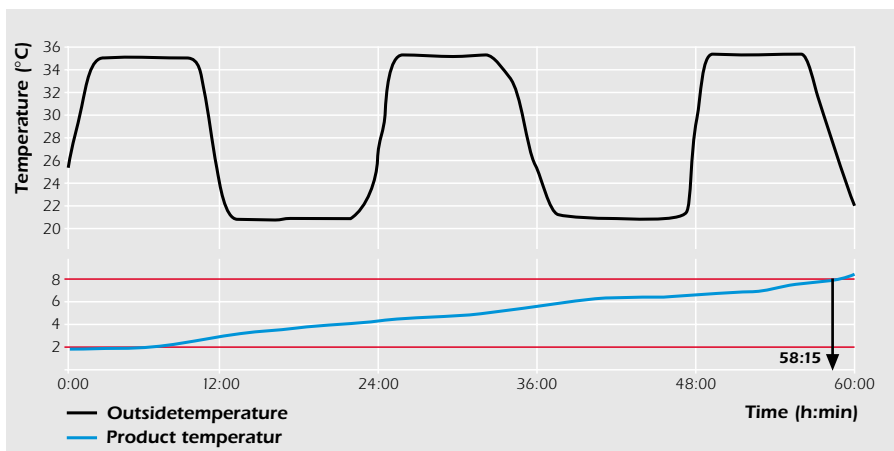
You can now solve this problem! ThermoSecure now offers innovative packaging systems that you can rely on – with confirmation. You comply with all directives and specifications, and have full control of the temperature during transport. The performance of our products has been validated and tested. We can supply you with climate boxes that record the temperature for you by data-logger (FDA-approved logger to CFR 21 Part 11), so that you can document the transport completely, making monitoring a routine and simple task.

## Innovative – thanks to in-house development work

Stimulated by the needs and requirements of our customers, we have been working intensively for years on the optimisation of packaging systems for temperature-sensitive products. The result is a range of products that has proven its value in practice.

We invest continually in the further development of our systems, with the aim of making the transport of your temperature-sensitive products even easier for you in future. Keep an eye out for new developments!

## A curve says more than a thousand words – tested quality for your security



The curve shows an example measurement result on the validation of our products by the Fraunhofer Institute IML. At the top is the alternating outside temperature throughout the day and night. The blue line shows that the cooled products in the climate box only exceed a temperature of 8 °C after nearly 60 hours.

## Removals with temperature-sensitive products

We are also available for removals with temperature-sensitive products. For this purpose, we develop an SOP (Special Operating Procedure) and compile comprehensive documentation for the supervisory authority.

**W**hen transporting temperature-sensitive products, quality must be ensured, and laws and directives fulfilled. In order to prove that our products are up to the task, we have had them exhaustively tested and validated. They are UN- and IATA-certified. And we are the only supplier who can offer you systems validated by the Fraunhofer Institute IML.

## Example validation and individual temperature curves

On purchasing our products, you will receive on request either a standard validation or an individual temperature curve from our laboratory. We can also validate packaging specially for your own internal procedures. Simply give us a call to discuss it.

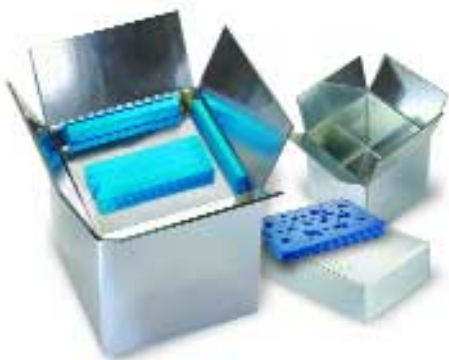


## The right solution for every requirement – so your products are guaranteed to arrive safely.

We offer high-performance, complete solutions: from the disposable, insulated folding carton, to intelligent, re-usable boxes for system logistics and validated, re-usable systems with integrated data recording and GMP design – a versatile range allowing you to comply with all directives and regulations.

We will be happy to provide you with a quotation for your own tailor-made solution. Just give us a call.

### The Isobxxx system: the new generation of insulating packaging



Our disposable packaging solutions keep your products cool for at least 12, 24, 36 or up to 72 hours. Whether your main consideration is a special cooling performance, low dispatch charges, re-usability, maintenance of hygiene standards or economical storage, here you will find the right solution for every requirement.

The »Kapa« **Isobxxx** of aluminium-coated PU material (see picture) is available in various sizes and can be stored very economically.

The sealable »Vario« **Isobxxx** is a low-cost, re-usable modular system consisting of a plastic box and different inserts. The interior can be divided into two temperature zones.

### Mobile climate boxes: high-performance professionals for long-term use



These high-quality re-usable climate boxes are available either with cooling/heating system (12 V/ 230 V) or as autonomous versions without external power supply. If required, you can document the transport conditions in black and white – by means of an integrated printer or by data transfer.

The **climate boxes TC45 and MX75** are equipped with a cooling/heating system and integrated monitoring system. The active tem-

perature range can be set between -33 and +35 °C.

The **climate boxes TB 3, 10 and 30** keep the internal temperature constant for up to 120 hours, thanks to innovative vacuum technology, without the need for an external power supply.

The popular **special model MX75 M** is specially designed for medical use by the armed forces and emergency services.

### transCooler instead of refrigerated vehicle: cost-effective and versatile in use



With the easily installed and removed transCoolers, you can quickly turn your company vehicle into a refrigerated vehicle – meeting the strict transport regulations for temperature-sensitive products without having to buy a special vehicle.

The **cooling and deep-freeze units of stainless steel for installation in combis and small delivery vans** come in various sizes and performances. They are manufactured to standard European sizes and can operate on 12/24 V or 230 V.



**Your contacts at ThermoSecure**



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