

Product Brochure

KTM31

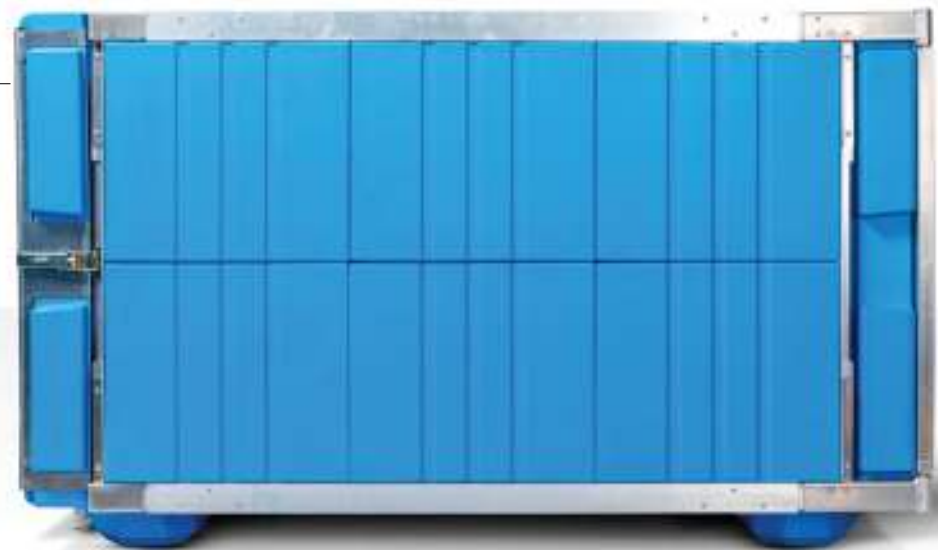
Tower “Low” US Pallet



Robust. Reliable. Reusable.

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The KTM31 Tower “Low” US Pallet

Robust. Reliable. Reusable.

The KTM31 Tower low Euro pallet is an easy to load half-height US pallet circular supply chain solution providing 120-hour product protection for -20°C (-4°F) (frozen), $+5^{\circ}\text{C}$ ($+41^{\circ}\text{F}$) (refrigerated) and $+20^{\circ}\text{C}$ ($+68^{\circ}\text{F}$) (controlled room temperature). Using phase-change technology it offers complete flexibility of use and requires no external power nor human intervention when operating within your supply chain.

KTM31 Temp.

$+4.81^{\circ}\text{C}$

$+23.2^{\circ}\text{C}$

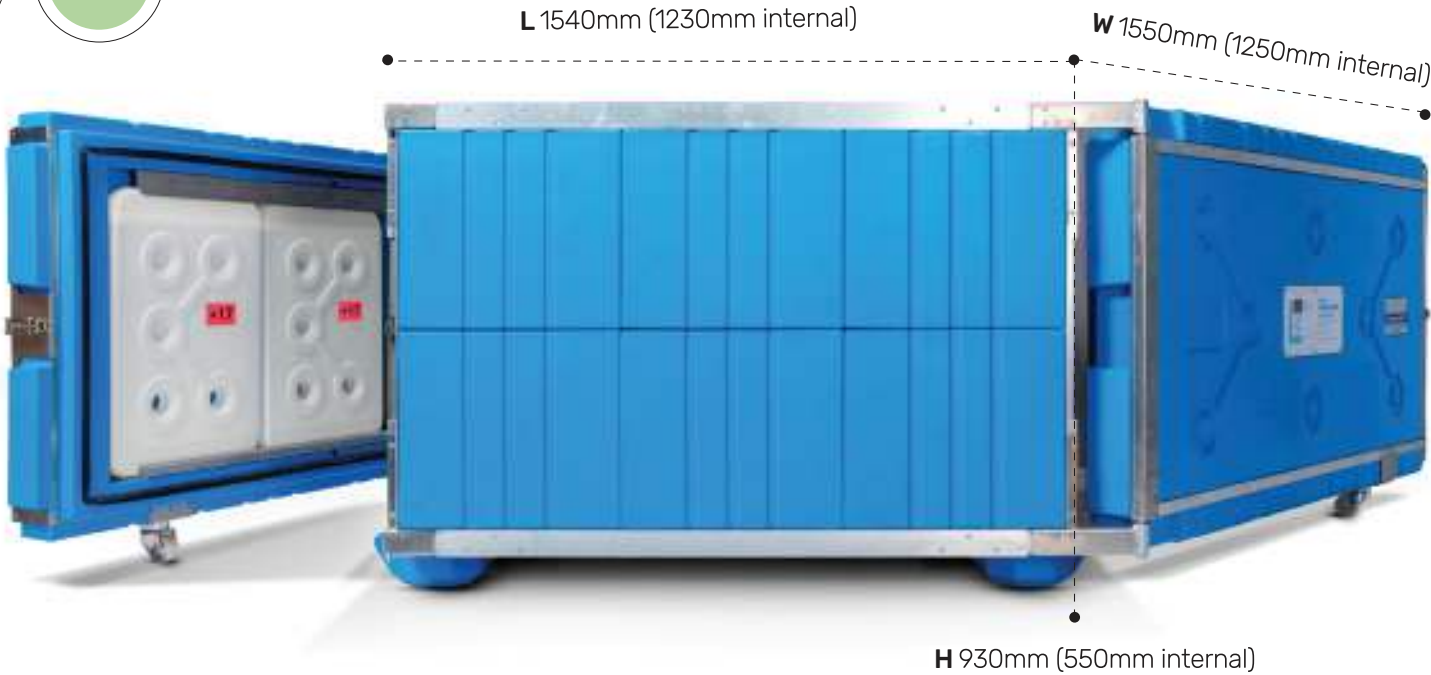
Air Temp.

$+25.7^{\circ}\text{C}$

Surface Temp.

KTM31 Specifications

120+ hour product protection for -20°C to +20°C (-4°F to +68°F) using phase change technology



20" container	40" container	TCV	Articulated Lorry	Wide / Narrow bodied	Accepts	System Tare	Volumetric	Int. Payload
Fits 6	Fits 14	Fits 14	Fits 16	Fits 16 / 6	"Low" US Pallet	344-415kg	370kg	846L

KTM31 Key Features

Integrated Data Logger

The KTM31's data logger ensures door-to-door-compliant payloads with no human intervention throughout transit. Users receive text or email notification of temperature excursions, as well as automatic data downloads throughout the transit (in-flight excluded) from loggers within range of the CX Gateway device. The loggers are built to FDA, USP, EU and WHO standards.

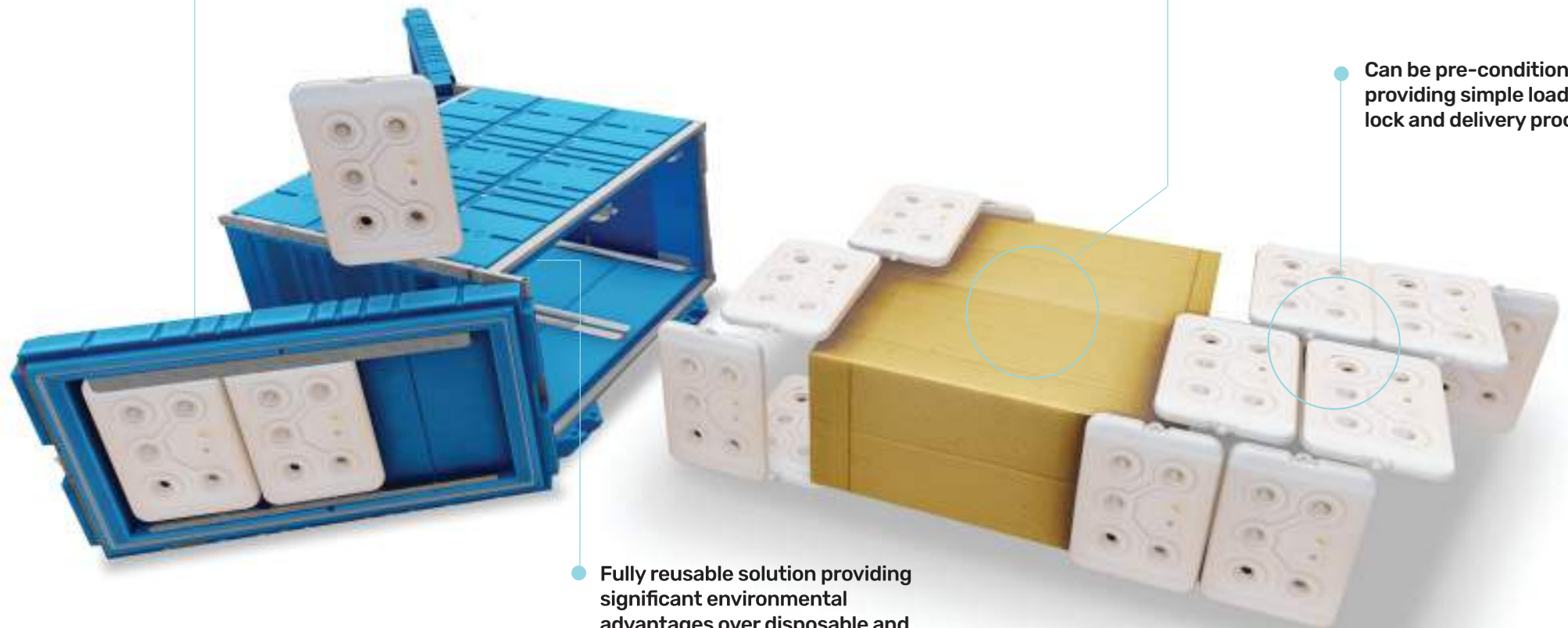
Accepts half-height US pallet payload (1230 x 1250 x 550 mm)

Internal payload
Up to 846 Litres

Can be pre-conditioned providing simple load, lock and delivery process

Fully reusable solution providing significant environmental advantages over disposable and semi-reusable systems

No human or manual intervention required during transit





The KTM31 Tower “Low” US Pallet is ideally suited for the bulk transportation of

Life Science Products

- All vaccines, including C19 vaccines and ABIs
- API & diagnostic kits
- Biopharmaceutical solutions
- Diagnostics specimen samples
- Cell lines bacteria
- Micro organisms
- Proteins and other samples and solutions
- Clinical trial kits
- Any other product requiring a stable temperature environment for transportation

Key Evaluation Criteria

General:

- 120 hours product performance -20°C (-4°F) (frozen), +5°C (+41°F) (refrigerated) and +20°C (+68°F) (controlled room temperature)
- Can be pre-conditioned and pre-configured ready for shipment
- Suitable for wide bodied aircraft
- Fewer than 0.1% temperature excursions on average (data supported from over 15,000 shipments)
- Double-door, easy load and unload process
- No external power or human intervention required during transportation
- Integrated blue tooth data logger (RTCA DO 160G Part 21 H Compliant)
- Operational Qualification completed to customer loading and shipping specification
- Global Qualification with near zero thermal mass which stress the containers far more than step tests, reducing associated documentation by half
- Fully reusable circular supply chain solution
- Easy and quick reconfigure for subsequent shipments
- Global availability through our global hub network within 24 hours or less
- Global assurance, used by a wide range of pharmaceutical companies organisations





Why choose Tower?



Robust: Ensuring product integrity for your patients

Tower delivers proven physical and temperature protection for pharmaceutical and life science products. Our containers are designed to perform in all supply chains, regardless of the transport type or environment. The innovative internal and external structural design of our containers means your products will be transported without the need for in-transit manual intervention.



Reliable: Delivering pharmaceuticals to patients when and how they need them.

Data downloaded from over 15,000 shipments has demonstrated fewer than 0.1% temperature excursions on average, a vital indicator in the maintenance of the cold chain. We achieve this by providing a reusable container that delivers the correct performance for every shipment. Our team focuses on delivering a consistent customer outcome whatever the location.

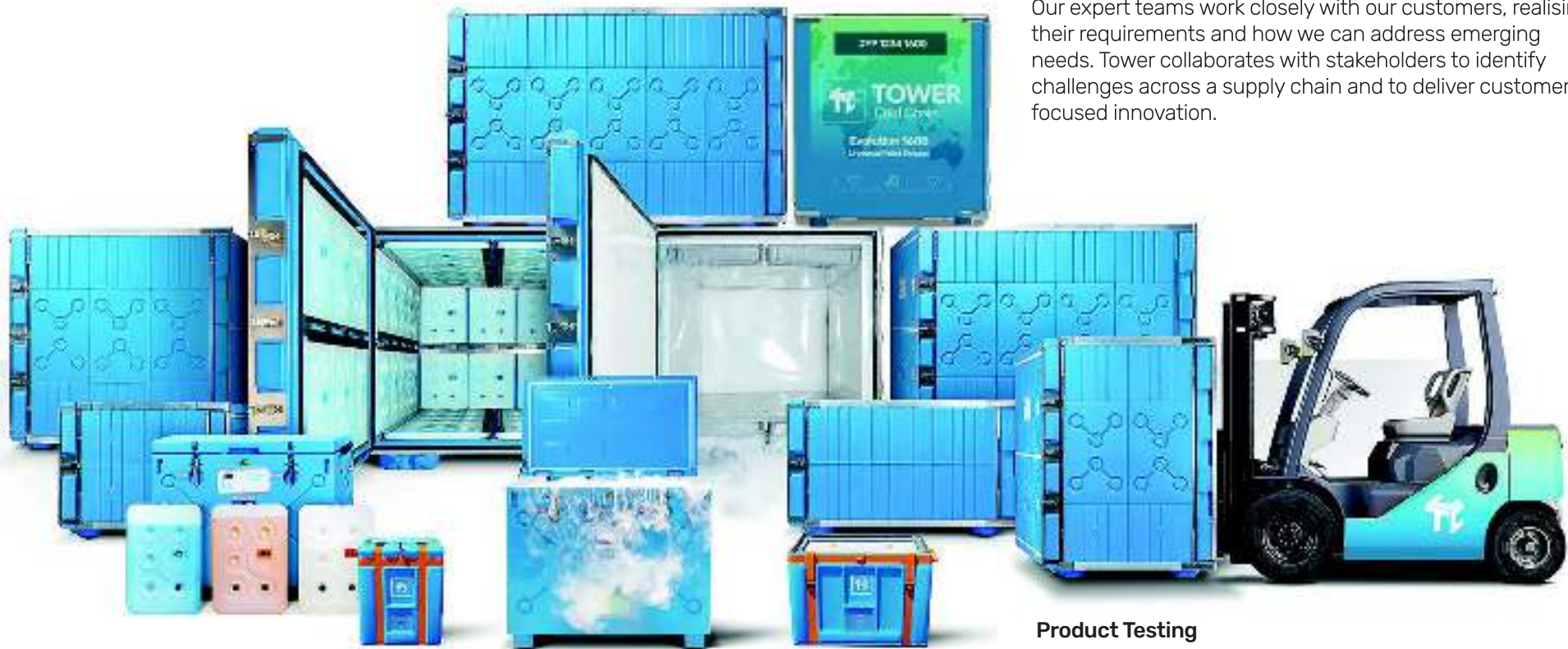


Reusable: Efficient and effective results for our global customers

All parties in the cold chain have a role to play in sustainability. We see ours as providing a reusable, cost-effective solution that contributes to customers' circular supply-chain ambition. Customers value our long-term lease containers and supply-chain flexibility.

Delivering value through customer-focused innovation

Tower incorporates innovation through design to meet the regulatory demands of the pharmaceutical supply chain. Our patented design technology meets the GDP requirements of our customers and All our solutions meet the pharmaceutical industry performance standard, providing a minimum of 120 hours temperature compliance in any environment, anywhere in the world. Performance data demonstrates fewer than 0.1% temperature excursions. Our expert teams work closely with our customers, realising their requirements and how we can address emerging needs. Tower collaborates with stakeholders to identify challenges across a supply chain and to deliver customer-focused innovation.



Product Testing

Tower containers are designed to be used all year round to all destinations using one packaging instruction – avoiding extra levels of complication and uncertainty within either validation or operational control.



Specialist Expertise

Tower is a preferred supplier of temperature-controlled solutions to the global pharmaceutical and life-science industries. Our team of experts understands emerging challenges and needs, and through collaboration with customers, we play a strategic role in optimising supply chains.

We recognise the complexity and challenges of the industry, and we meet this by investing in people. Our customers work with specialists within Tower who understand their supply chains and operate as an extension to their own teams.



Promoting Circularity

Tower cold chain recognise the role we play in working with our stakeholders to move from a linear supply chain to a circular one – providing a solution that supports our mutual ambition of waste reduction through reusability keeping our containers in use for longer reducing the need for disposal and recycling of temperature controlled packaging.

Global availability and support

Our global network uses common processes and standards to deliver consistency for our customers. You will have access to the complete Tower range with a local team of experts to understand specific customer needs. This means we can deliver where and when required.

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[Click here to see our global hubs >](#)

