TOWER
Cold Chain

Product Brochure

Evolution 1600
Tower Universal Pallet

Robust. Reliable. Reusable.

Index

The Evolution 1600 Tower Universal Pallet

Robust. Reliable. Reusable.

The Evolution 1600 Tower Universal Pallet comes with unique pack-out options allowing for a multitude of different pharmaceutical packaging alternatives to be transported safely, simply and easily.
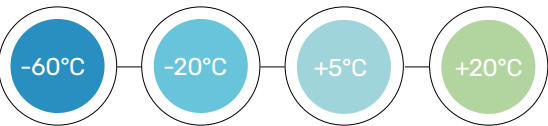
It overs over 120-hour product protection for four product temperature ranges, including 2-8°C, 15-25°C, frozen (-25 to -15°C) and deep frozen (less -60°C) products, with the use of different PCM plates or dry ice.

The Evolution 1600 Tower Universal Pallet incorporates an integrated BLE/cellular Bluetooth data logger (compliant with RTCA DO 160G Part 21 H) along with a visible data display. It is specifically engineered to accommodate a wide range of data logging and IoT solutions readily accessible in the market.

+29.8°C
Air Temp.

Evolution 1600

-19.8°C

+62.5°C
Surface Temp.

Evolution 1600 Tower Universal Pallet Specifications

Over 120+ hour product protection with different temperature ranges including, 2-8°C, 15-25°C, frozen (-25 to -15°C) and deep frozen (less -60°C) products, with the use of different PCM plates or dry ice.
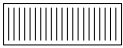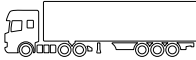
- -60°C
- -20°C
- +5°C
- +20°C

H 1050mm (585mm internal)

L 800mm (500mm internal)
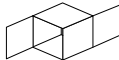
W 1200 mm (900mm internal)

20" container	40" container	TCV	Articulated Lorry	Fits airline pallet	Accepts	System Tare	Volumetric	Int. Payload
Fits 8	**Fits 16**	**Fits 8**	**Fits 18**	**Fits 4 per PMC**	**1 EU Pallets 1 US Pallets**	**365 - 410kg**	**450kg**	**1639L**

Evolution 1600
Tower Universal Pallet Key Features

Double door access for ease of operation and to meet health and safety requirements

Accepts EU/US Pallet (L1230 X W1025 X H1300)

Internal payload Up to 1639 Litres

No human or manual intervention required during transit

Integrated Data Logger

The Evolution 1600 Tower Universal Pallet 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.

Real-time temperature and location tracking
Fully integrated IOT system allowing for near real-time temperature monitoring of shipments, as well as asset management of the units.

Physical product and temperature protection using engineering foam composite and top grade sustainable vacuum isolated panels

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

Fully reusable solution providing significant environmental advantages over disposable and semi-reusable systems
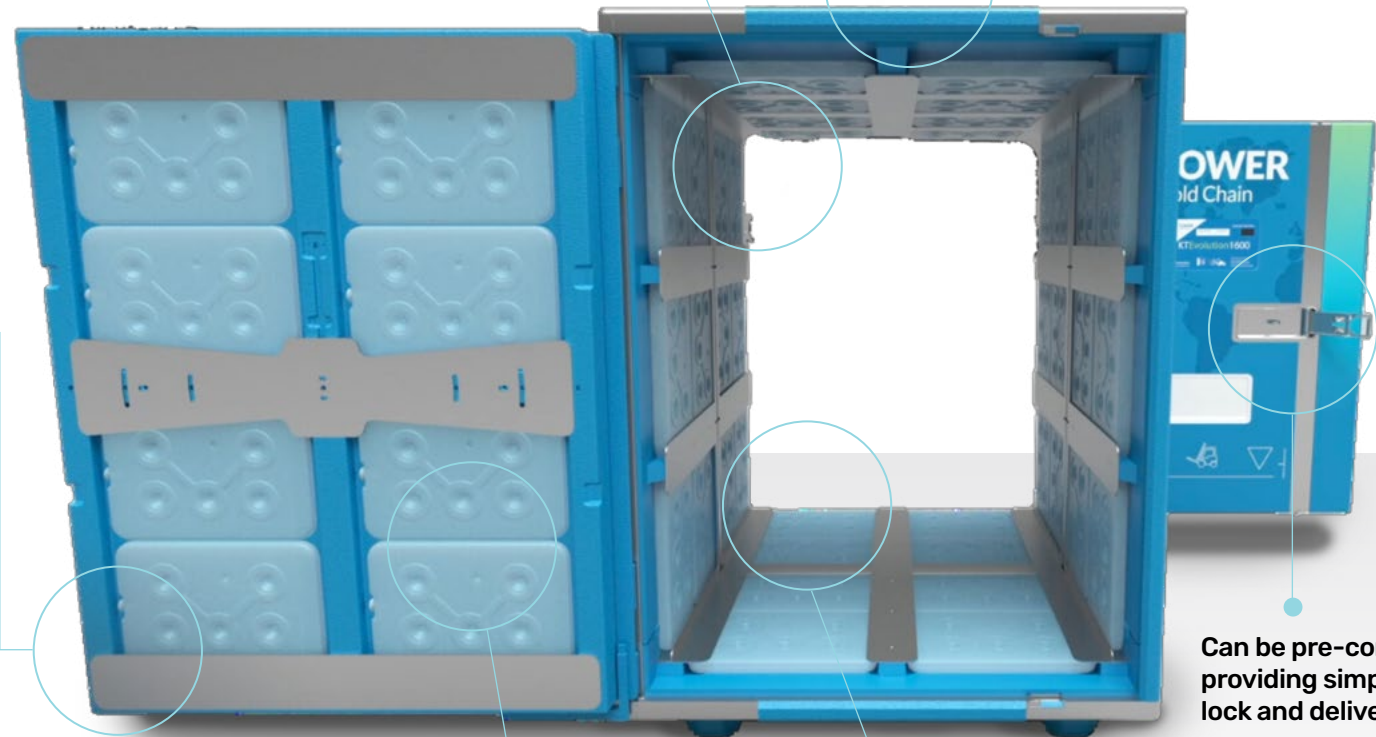
The Evolution 1600 Tower Universal Pallet is ideally suited for the transportation of

Primary Packaging

- Sartorius Celsius® FFT shell system
- Varying drum sizes
- RoSS® containers
- Mylar bags
- HDPE bottles
- Nalgene bottles
- Single API drums
- Clamshells
- Cryoboxes
- Cylinders
- Mueller drums
- CurTec drums

Life Science Products

- Vaccines (including Covid 19 and ABIs)
- Biotech products (Oncology, Cardiovascular, Etc)
- Insulins
- Active Pharmaceutical ingredients (API)
- Drug Substance
- SEMI finished and finished products.

Key Evaluation Criteria

General:

- Best-in-class, accurate 120hr compliance time against ISTA 7D 24hr repeat profiles.

- Engineered Composite construction giving superior product protection - ASTM4169 transit tested

- Weight & Space efficient - class leading volumetric weight against similar solutions

- Weather resistant, fully sealed system.

- Robust. Reliable. Reusable design based on VIP composite construction.

- Integrated BLE/cellular blue tooth data logger (RTCA DO 160G Part 21 H Compliant) and visible data display.

- Visual checking of VIPs for assured performance

- Double door access for ease of operation and to meet health and safety requirements

- IoT - real time data logging and tracking options.

- Customer visibility through Control Tower platform.

- Unique QR identifier code facilitating return logistics.

- Lease options.

- Global availability through our global hub network within 24 hours or less

- Fully recyclable and reusable

- Global assurance, used by a wide range of pharmaceutical companies organisations

- Low life-cycle cost of ownership due to longevity

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.

KTM52
Tower Double US Pallet

Evolution 1600
Tower Universal
Pallet

KTM32
Tower US Pallet

KTM42D
Tower Double Euro

KTM32 Tower US Pallet

KTM21
Tower "Low"
Euro Pallet

KT400
Tower Flexi Fit

KTEvolution 26

KT400D
Tower Flexi Fit
Ultra Cold

KTM31
Tower "Low"
US Pallet

KTEvolution 57

KTM22
Tower Euro Pallet

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.
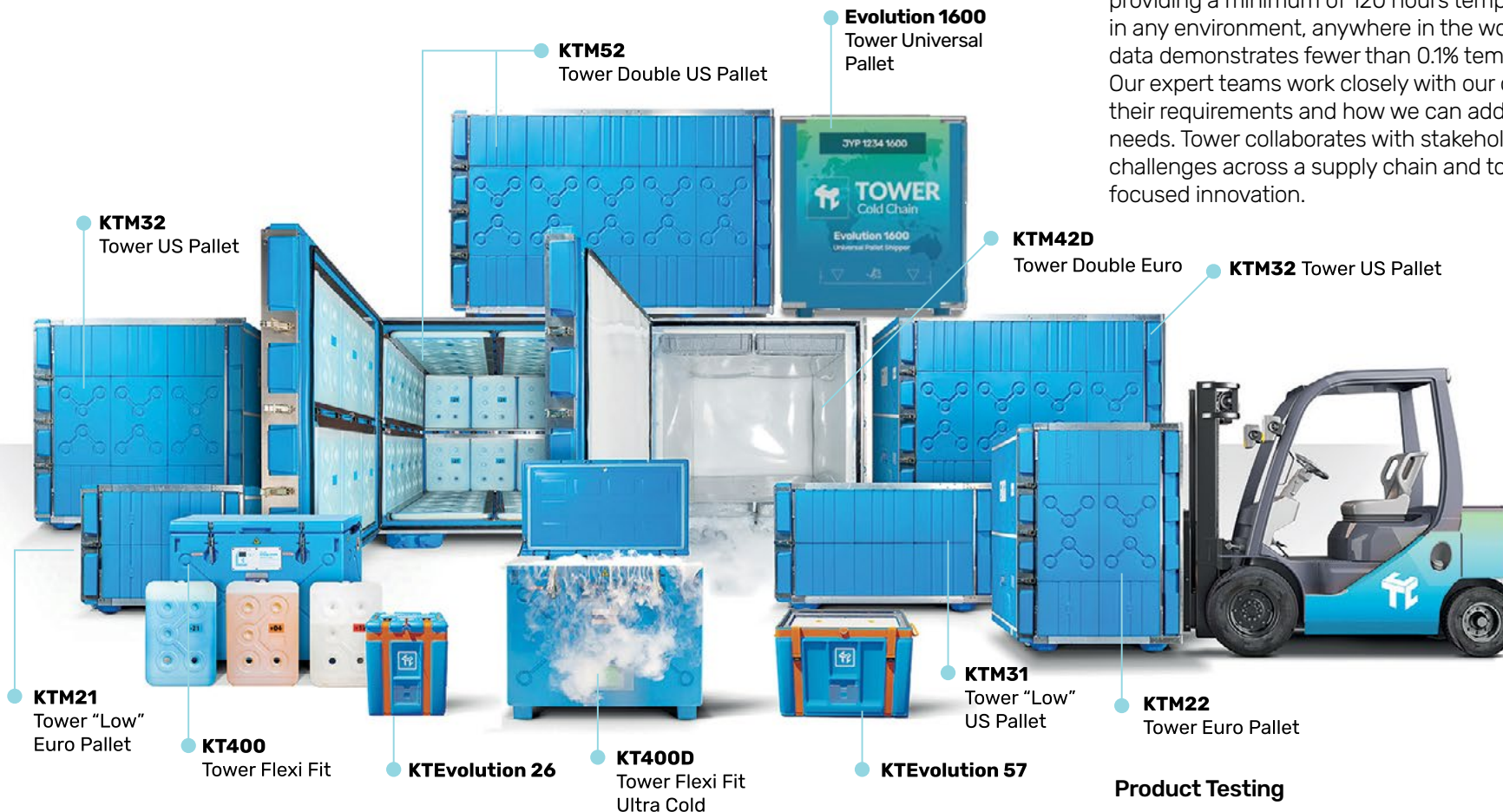
Product Testing

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 >