TOWER
Cold Chain

Product Brochure

KTEvolution 57

Robust, Reliable, Reusable

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The KTEvolution 57

Robust, Reliable, Reusable

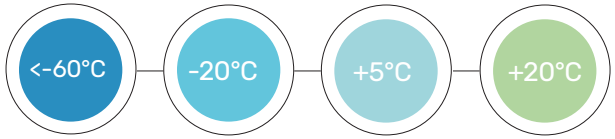
The KTEvolution 57 is a manually handleable, weatherproof, and washable supply chain solution. We can offer you a fully tailored, adaptable sustainable solution to meet your requirements by understanding your needs.

The unit has the potential to be fully connected with integrated IoT solutions. The KTEvolution 57 offers protection for <-60°C (ultra-cold), -20°C (frozen), +5°C (refrigerated), and +20°C (controlled room temperature) and is available in different sizes for different use scenarios.

Using phase-change technology and incorporating vacuum insulating panels offers complete flexibility of use and requires no external power or human intervention when operating within your supply chain.

KTEvolution 57 Specifications

120+ hour product protection for <-60°C to +20°C (<-76˚F to +68˚F) using dry ice or phase change technology



Can be manually handled by 2 people

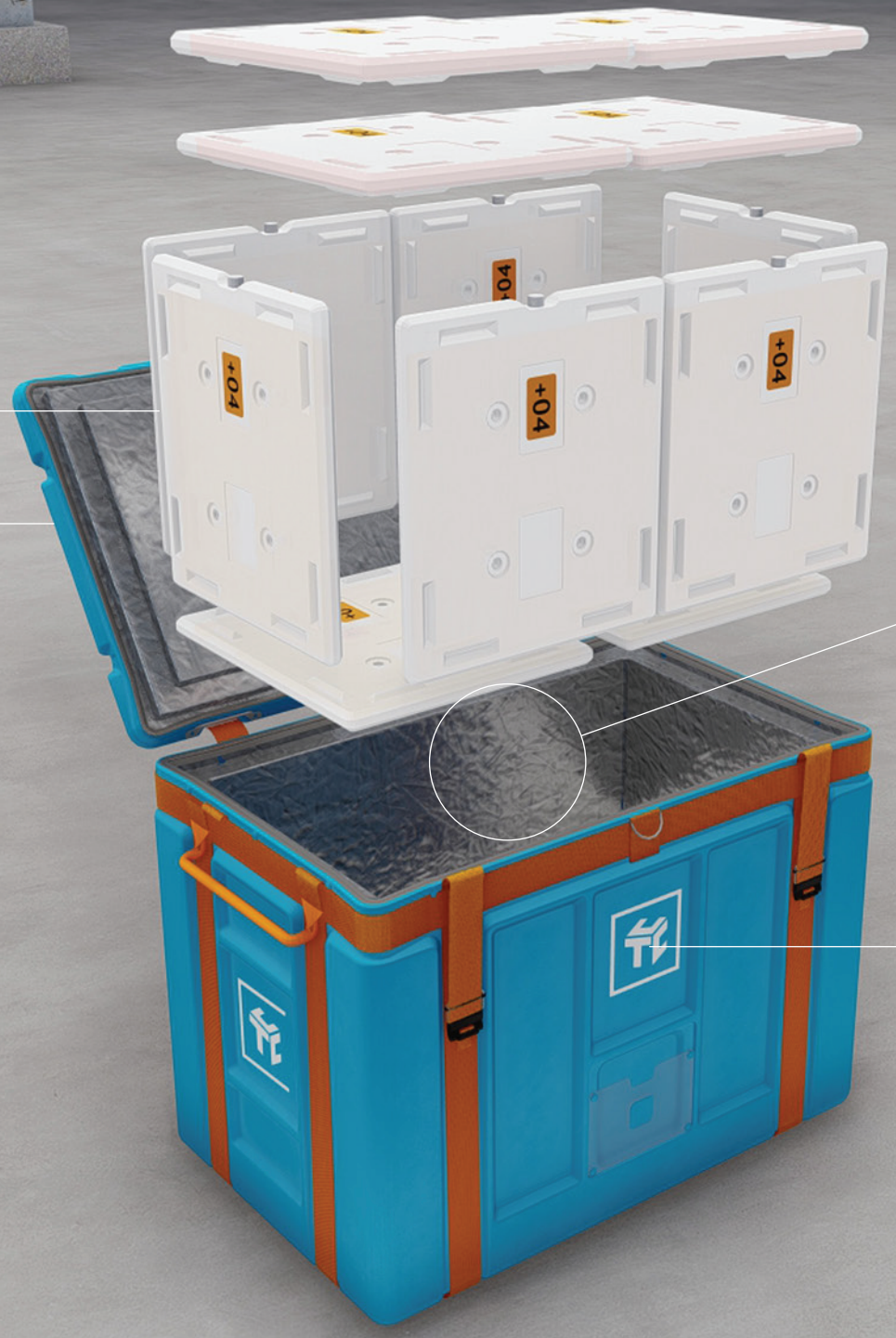
Compatible with commercial vehicles/vans, goods vehicles/trucks, narrow and wide bodied aircraft

System Tare
33 - 46 kg

Volumetric
28.3 kg

Int. Payload
57.1 L

KTEvolution 57
Key Features



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

Integrated Data Logger

The KTEvolution'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. Integrates with mobile and cloud platforms for a 21 CFR Part 11 compliant solution.

Internal Dimensions (L560 x W300 x H340 mm)

Internal payload
Up to 57.1 Litres

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

No human or manual intervention required during transit

The KTEvolution 57 is ideally suited for the 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

- Can be manually handled by 2 people
- Fully tailored and adaptable to your needs in regards to temperature, weight and duration
- One KTEvolution 57 container is capable of providing <-60°C (ultracold), -20°C (frozen), +5°C (refrigerated) and +20°C (controlled room temperature) internal temperature range
- A new addition to our reliable range of pharmaceutical containers. Data downloaded from over 15,000 shipments demonstrated fewer than 0.1% temperature excursions on average
- 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)
- Flexible IOT solutions available for location, temperature, shock and impact monitoring
- Additional security features including physical tamper evidence and lockable options
- 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
- Robust and fully reusable for a 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
- Washable unit minimising microbial risks
- Available in 2 sizes : 26L and 57L

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 >