

CASE STUDY

COLD CHAIN REVOLUTION: MARKEN MONARCH IS PROVEN GAME-CHANGER FOR VITAL MEDICINAL DISTRIBUTION FROM AUSTRALIA TO GERMANY

GOAL

Identify a packaging solution to securely transport a bulk heavyweight consignment of highly regulated, time and temperature-critical medicinal products over 10,000 miles - from Perth, Australia to Goslar, Germany via Doha, Qatar. The specialized container must maintain internal cargo temperature between +15°C to +25°C for the entire duration of the journey which was expected to be approximately 175 hours.

CHALLENGE

- Complex regulatory requirements: Due to the heightened classification of the products being transported, urgency was intensified as there was higher risk of delays that could impact the on-time delivery to the patients in need. A dedicated expert team was essential to ensure a smooth implementation including acquiring export permits, shipper approval and a specialized airline booking.
- Real-time monitoring and visibility: Safeguard the required internal temperature stability window of +15°C to +25°C for over 175 hours while experiencing severe seasonal temperature fluctuations across different hemispheres during transport (i.e., summer to winter).



SOLUTION

The deployment of the advanced Marken Monarch packaging, equipped with real-time tracking as well as interior and exterior sensor monitoring, was pivotal in managing the shipment's unique demands.

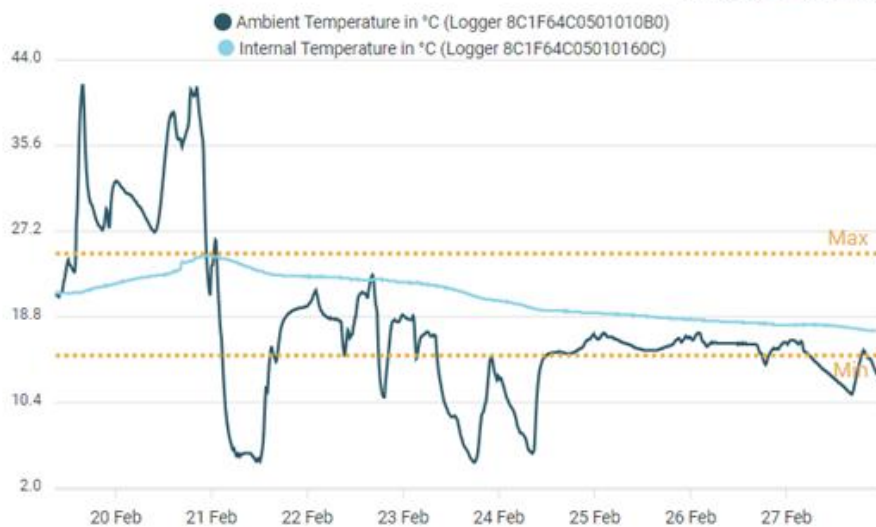
Marken designed a bespoke precision logistics strategy to streamline regulatory hurdles and mitigate extreme external temperature changes during transit which required meticulous planning, lane map assessment, risk mitigation and customs compliance management. Leveraging our extensive network and expert teams across major cities Sydney, Melbourne, and Perth, Marken's Australia team engaged closely with the client throughout the APAC region to expedite secure transit. The strategic application of forecasting tools and proactive planning enabled Marken to effectively maintain temperature control, visibility, and oversight throughout the 175-hour stability window to ensure seamless, on-time delivery of the clinical materials.

OUTCOME

Marken delivered the shipment in perfect condition, ensuring the products remained within the internal temperature stability specifications throughout the extended transport, culminating in a final logger readout of +17.7C.¹ The accelerated transport of these high value bulk products through the innovative lightweight Marken Monarch solution not only opened new future opportunities with the client but helped support their sustainability objectives by reducing environmental impact and lowering carbon footprint. These partnerships promise to enhance the global accessibility of vital healthcare materials for patients when and where they need it most.

1.

Packaging 110-10042 in °C



Temperature During Shipment

Actual ● 17.7°C ▬ 24.8°C



ABOUT MARKEN

Marken is the clinical precision logistics and advanced therapy subsidiary of UPS Healthcare. The UPS Healthcare network consists of 200+ locations worldwide. Marken offers a state-of-the-art GMP-compliant depot network and logistic hubs for clinical drug product storage and distribution in 49 locations worldwide, while maintaining the leading position for cell and gene therapy services, direct-to-patient and home healthcare services, biological sample shipments and biological kit production. Marken's dedicated 2,600+ staff members manage 200,000 drug product and biological sample shipments every month at all temperature ranges in more than 220 countries and territories and have orchestrated 16,000+ home healthcare visits. Additional services such as ancillary material sourcing, storage and distribution, shipment lane verification and qualifications, as well as GDP, regulatory and compliance consultancy add to Marken's unique position in the pharma and logistics industry.

Delivering What Matters From Clinical to Commercial.