

RAP

Active temperature-controlled RAP air cargo container

Technical specifications



The CSafe RAP is the latest innovation in high-performing temperature-controlled containers, purposely designed to support pharmaceutical and life-science companies with air cargo transportation of temperature-sensitive products to patients around the world. Developed and designed with performance in mind, the CSafe RAP utilizes innovative heating and compressor-driven cooling technologies together with advanced ThermoCor® VIP insulation to eliminate the risks to payloads associated with extreme ambient temperature conditions and long-duration shipments. The new CSafe RAP active container leverages the proven performance and capabilities of the well-established CSafe RKN to remove the operational and environmental challenges encountered with temperature-controlled shipments.

Upgrade to the CSafe RAP for large-volume shipments and experience a higher level of performance.

Performance features:

- Superior ThermoCor® VIP insulation
- Innovative ARS airflow pathway that encapsulates payload with conditioned air on all sides to ensure optimal temperature mapping and operational efficiency
- Advanced temperature management system (TMS) for autonomous control of innovative heating and compressor driven cooling systems
- Array of 10 temperature sensors throughout cargo compartment for high level of redundancy in temperature and system control
- Flexible composite exterior panels containing high-performance aramid fiber for enhanced container durability
- Intuitive, easy-to-use control panel leveraging familiar, well-established CSafe RKN system, to minimize user training time and effort
- User-selectable temperature set points from +4°C through +25°C, in 1°C increments

Experience a higher level of performance

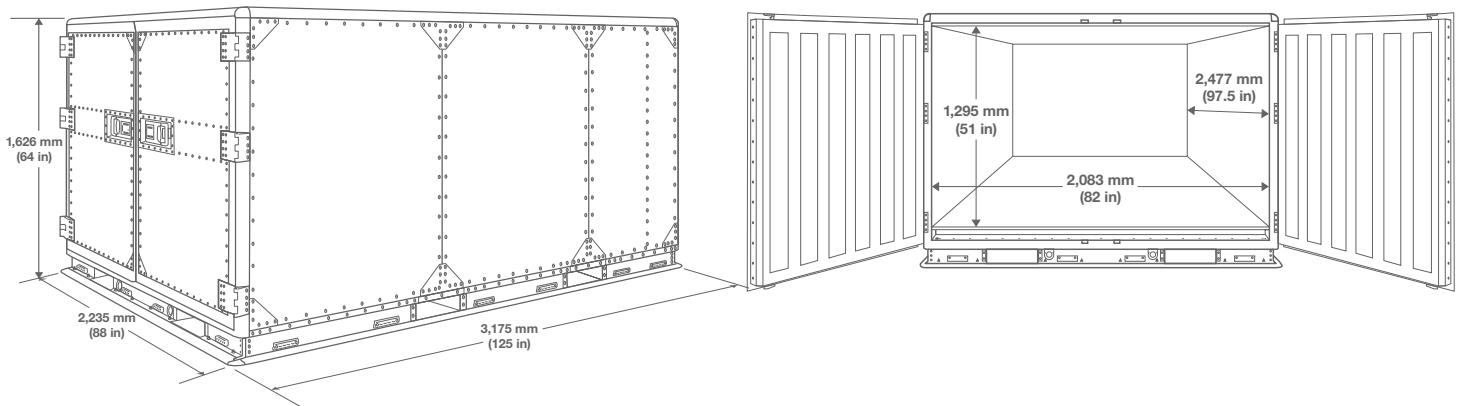
- Advanced active container system
- Superior ThermoCor® VIP insulation
- Innovative air recirculation system (ARS) for complete encapsulation of payload
- Unmatched operational capabilities in extreme ambient temperatures (-30°C to +54°C)
- Largest RAP payload in industry
- Automated data logging



System advantages:

- Broad operating range maintaining payload temperature in extreme ambient temperatures (-30°C to +54°C)
- Narrow temperature tolerance ($\pm 1^\circ\text{C}$ at +5°C; $\pm 1.5^\circ\text{C}$ at +20°C)
- Extended battery run time of >120 hours for typical shipments
- Superior passive holdover time due to incorporation of best-in-class insulation technology (ThermoCor® VIP)

CSafe RAP technical specifications (continued)



Physical specifications:

- Payload volume: 6.68 m³ (236 ft³)
- Internal dimensions (L x W x H):
2,477 mm x 2,083 mm x 1,295 mm (97.5 in x 82 in x 51 in)
- External dimensions (L x W x H):
3,175 mm x 2,235 mm x 1,626 mm (125 in x 88 in x 64 in)
- Tare weight: 1,213 kg (2,675 lb)
- Maximum payload weight: 4,819 kg (10,625 lb)
- Maximum allowable weight: 6,033 kg (13,300 lb)

Data features:

- Automated data logging of cargo compartment temperature, ambient temperature, door opening events, and battery status
- Downloadable, free data file available via integrated USB port allowing for immediate access to shipment data

Power features:

- Power sources:
 - ▶ AC power (100-240 V, 50-60 Hz)
 - ▶ Internal batteries (regulatory approved, sealed, nonspillable design that meets Dangerous Goods Regulations)
- Rechargeable anywhere in the world with included multisystem charging cables
- Rapid battery charging, from 0% to 100% in only 4 hours
- Run time >120 hours for typical shipments

Design features:

- Suitable for use on all wide-body aircraft, with regulatory approval for use on both lower and upper decks
- Unlike other containers, no payload pallet required to ensure optimal airflow within cargo area
- Container base accessible by forklift from all sides
- Optimized design to hold 4 standard US pallets or 5 standard Euro pallets
- Wide-opening, twin-door container design for easy access to cargo area
- Continuous pallet base for optimum roller conveyor transport and aircraft loading



Keeping temperatures precisely where they need to be

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