

CSafe RAP

Active temperature-controlled air cargo container

Technical specifications

The CSafe RAP is the latest innovation in high-performing temperature-controlled containers (TCCs), 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 payload risks 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 global temperature-controlled shipments.

System advantages:

- Broad operating range maintaining payload temperatures at extreme ambient temperatures (–30°C to +54°C)
- Narrow temperature tolerance band:
 - ▶ ±1°C tolerance at +5°C
 - ▶ ±1.5°C tolerance at +20°C
- Extended battery run time of >100 hours for typical shipments
- Rapid battery charging from 0% to 100% in only 10 hours
- Superior passive holdover time due to incorporation of best-in-class insulation technology (ThermoCor® VIP)

Physical specifications:

- Payload volume: 6.68 m³ (236 ft³)
- Internal dimensions (L × W × H):
2,477 mm × 2,083 mm × 1,295 mm (97.5 in × 82 in × 51 in)
- External dimensions (L × W × H):
3,175 mm × 2,235 mm × 1,626 mm (125 in × 88 in × 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)

Experience a higher level of performance:

- Advanced active container system
- Superior ThermoCor® VIP insulation
- Unmatched operational capabilities in extreme ambient temperatures (–30°C to +54°C)
- Largest RAP payload in industry
- Automated data logging
- Certified air cargo ULD (unit load device)



CSafe RAP front view



CSafe RAP side view

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

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Performance features:

- Superior ThermoCor® VIP insulation
- Intuitive, easy-to-use control panel leveraging familiar, well-established system found on CSafe RKN, to minimize user training time and effort
- User-selectable temperature set points from +4°C through +25°C
- Innovative airflow pathway that encapsulates payload with conditioned air on all sides to ensure optimal temperature mapping and operational efficiency
- Advanced CSafe temperature management system for autonomous control of innovative heating and compressor-driven cooling systems
- Array of 12 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

Power features:

- Power sources:
 - ▶ AC power (100-240V, 50-60 Hz) that can be charged through any standard power outlet
 - ▶ Internal batteries (regulatory approved, sealed, nonspillable design that meets Dangerous Goods Regulations)
- Rechargeable anywhere in the world with included multisystem charging cables

Data features:

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

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



CSafe RAP system control panel



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