

# RKN

## Active temperature-controlled RKN air cargo container

### Technical specifications



#### Experience a higher level of performance

- Advanced active temperature-controlled container
- Superior ThermoCor® VIP insulation
- Innovative Air Recirculation System (ARS) for complete encapsulation of crucial payloads
- Efficient operational capabilities in extreme ambient temperatures (-30°C to +49°C)
- Automated data logging with free data file download

The CSafe RKN active temperature management solution was designed to protect temperature-sensitive life-science products during air cargo shipments to patients around the world. The CSafe RKN brings an unparalleled level of precision control and temperature assurance with intelligent programming and patented VIP insulation technology. Combined with a radiant heating and compressor-driven cooling system, the CSafe RKN autonomously recirculates conditioned air throughout the cargo chamber to encapsulate the payload and provide an optimal layer of protection from temperature risks associated with long-duration shipments, even in extreme ambient temperature conditions. CSafe Global combines proven experience with best-in-class quality performance, and has successfully and safely transported countless life-enhancing shipments across the globe, commanding unmatched levels of confidence in the CSafe RKN.

The CSafe RKN delivers ultimate peace of mind with best-in-class payload protection

#### Performance features:

- Superior ThermoCor VIP insulation
- Innovative ARS airflow pathway, encapsulating 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 6 temperature sensors throughout cargo compartment for high level of redundancy in temperature and system control
- User-selectable temperature set points from +4°C to +25°C, in 1°C increments
- Narrow temperature tolerance ( $\pm 1^\circ\text{C}$  at +5°C;  $\pm 1.5^\circ\text{C}$  at +20°C)

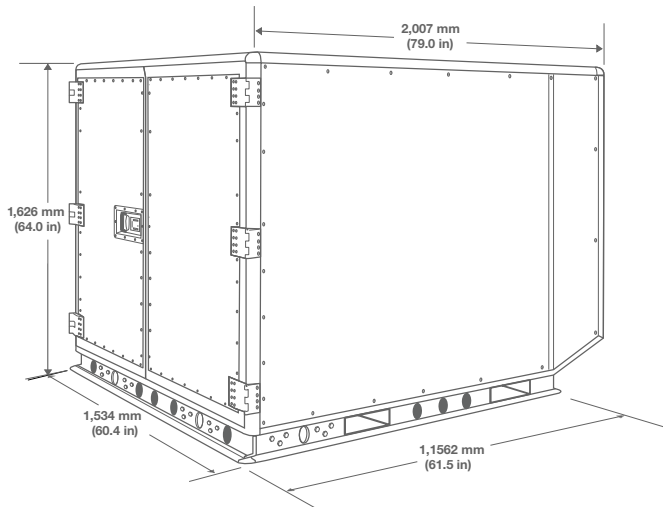


#### System advantages:

- Extended battery run time of >130 hours for typical shipments
- Broad operating range to maintain payload temperature in extreme ambient temperatures (-30°C to +49°C)
- Superior passive holdover time with best-in-class insulation technology (ThermoCor VIP)
- Readily available data logging to monitor and verify thermal integrity of payload
- Intuitive, easy-to-use control panel to minimize user training time and effort

# CSafe RKN

## Technical specifications (continued)

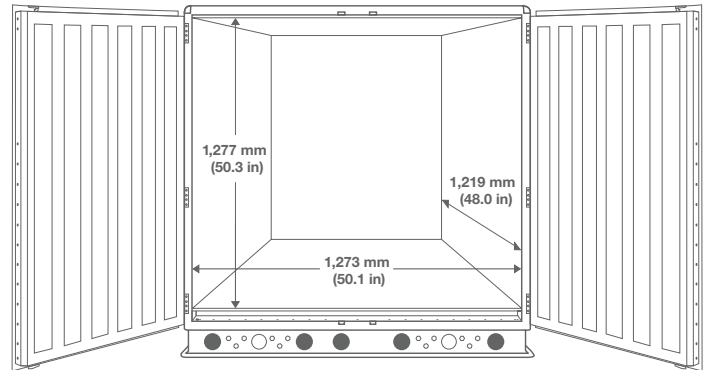


### Physical specifications:

- Payload volume: 2.0 m<sup>3</sup> (70 ft<sup>3</sup>)
- Internal dimensions (L x W x H):  
1,219 mm x 1,273 mm x 1,278 mm  
(48.0 in x 50.1 in x 50.3 in)
- External dimensions (L x W x H):  
2,007 mm x 1,534 mm x 1,626 mm  
(79.0 in x 60.4 in x 64.0 in)
- Tare weight: 626 kg (1,380 lb)
- Maximum payload weight: 941 kg (2,075 lb)
- Maximum allowable weight: 1,588 kg (3,500 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 >130 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
- Forkliftable base with flat bottom for roller conveyor transport and aircraft loading
- Large cargo chamber designed to easily manage 1 standard US or Euro pallet in any orientation
- Wide-opening door for easy access to cargo area
- Optimized internal airflow recirculation, eliminating the need for pallet loading



Keeping temperatures  
precisely where they  
need to be

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