One world. One cold chain. One mission.

RKN Product Sheet

Product Sheet

RKN Advantages:

- Heating and cooling capabilities for precise temperature control at any set-point from 4°C to 25°C
- Superior insulation provides hold times well over 100 hours on battery
- Maintains selected set-point in any ambient condition from -30°C to 49°C
- Multiple power sources for complete global operation
- Rugged design withstands abuse of commercial transportation
- Simple data logging capability to monitor and verify payload integrity
- Air flow around payload to ensure consistent temperature
- No dry ice required
- Worldwide service and support network
- Flexible leasing options
- Full utilization of internal payload space of 2100 liters
- Free online training available

Transport Temperature-Sensitive Cargo with Confidence

The best performing RKN available on the market.

The CSafe RKN is ideal for transporting temperature-sensitive cargo such as pharmaceuticals, biomedical products, electronic devices and other high-value temperature-sensitive items in hot or cold environments. Since 2008, the CSafe RKN has successfully transported tens of thousands of shipments. CSafe's preventative maintenance program is the best in the industry and ensures the success of your temperature-sensitive shipments.

The CSafe RKN is the first compressor-driven refrigeration unit of its kind approved by both the Federal Aviation Administration (FAA) and the European Aviation Safety Agency (EASA). The RKN has also been granted FAA approval for use on both the upper and lower decks of aircraft, expanding the lanes and flights available to our partners and customers.

Precise Temperature Control

The CSafe RKN utilizes patented ThermoCor® high-performance insulation along with high-efficiency refrigeration and heating systems for precise control of temperature-sensitive shipments. This robust insulation and its thermal capabilities provide an environment that will withstand extended hold times on the tarmac, extreme temperature exposure and delays in routing and transit. The performance of the CSafe RKN provides the customer with the confidence needed when facing the unpredictable situations that can occur during the air transport of sensitive cargo.

Superior to Dry Ice

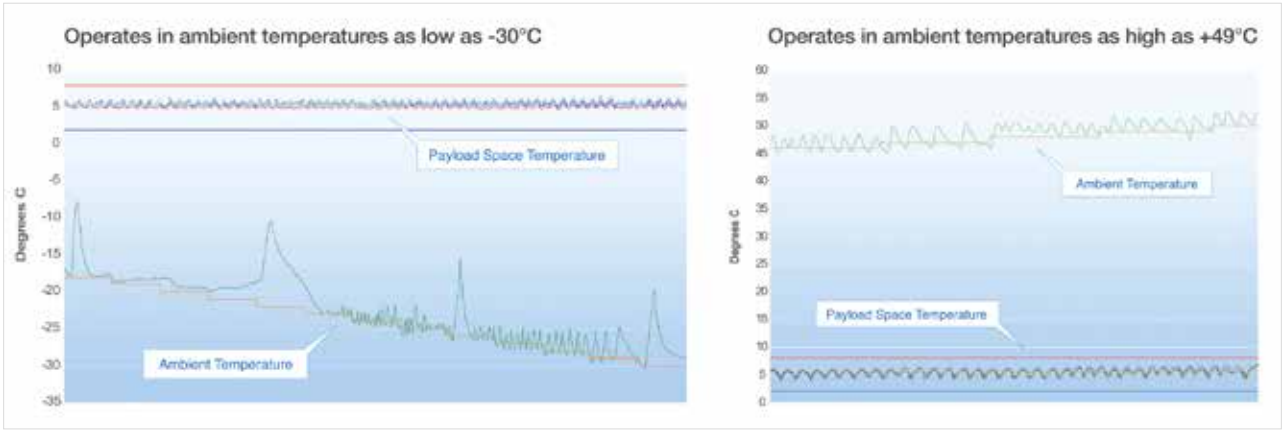
The compressor-driven technology of the RKN eliminates the use of dry ice and the challenges often associated with dry ice technology.

The CSafe RKN:

- Provides the superior performance users require
- Ends special handling charges and hazardous goods surcharges
- Eliminates special payload packaging and dry ice reloading
- Omits the costly requirements of refrigerated trucking and refrigerated warehouse staging
- Constant conditioned air flow around the payload ensures consistent temperature management and allows for full payload pack out

The RKN's precise temperature management allows for no excursions during the routing of shipments. The CSafe RKN consistently maintains the internal temperature of the payload compartment – even in extreme and fluctuating ambient environments.

RKN Product Sheet



Advanced Data Logging and Monitoring

The RKN incorporates internal data logging capabilities to verify payload integrity.

- The unit uses three-point averaging to monitor and control internal temperature
- The unit also monitors and records in frequent intervals:
  - Ambient temperature
  - Battery state
  - System status
  - Door status
  - Power mode changes
  - Door openings
  - Maintenance requirements
- Encrypted data file can be instantly downloaded via USB flash drive without the need for specialist equipment
- Data downloading and usage is free

Physical Specifications

Payload Volume: **1.975 m³ (70 ft³)**

Internal Dimensions
L x W x H cm (inches):
121.9 cm x 127.3 cm x 127.8 cm (48.0 in x 50.125 in x 50.3 in)

External Dimensions
L x W x H cm (inches):
196.2 cm x 150.5 cm x 161.4 cm (77.25 in x 59.25 in x 63.56 in)

Tare Weight:
646 kg (1425 lb)

Maximum Gross Weight:
1588 kg (3500 lb)

Maximum Net Weight:
941 kg (2075 lb)

Operational Specifications

- **Power Sources**
  - AC power: 100-250 VAC, 50-60 Hz
  - Internal battery: 220 Amp-hr AGM sealed batteries
  - Run time: over 100 hours in refrigeration mode at 23°C ambient
  - Maximum recharging time: 5 hrs
  - Recharge capabilities anywhere in the world
- **Temperature Set-Points**
  - User selectable between 4°C (39.2°F) and 25°C (77°F)
  - Tolerance band for set-point ±2°C
  - Ambient operating range: -30°C to 49°C
- **Container Design**
  - Forkliftable base
  - Accepts standard GMA pallets in any orientation
  - Flat bottom for roller conveyor transport
  - Easy access to cargo area
  - Meets NAS 3610

CSafe's unique interior design allows the conditioned air flow to encapsulate the payload on all sides. This is accomplished by the recirculation of the conditioned air back under the floor. This gives superior temperature mapping and high operational efficiency.

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