



### AcuTemp® RKN Advantages

- Heating and cooling capabilities for precise temperature control from +4°C to +25°C
- Extended hold times – over 100 hours on battery in refrigeration mode at +22°C ambient
- Multiple power sources for global operation
- Rugged design withstands abuse of commercial transportation
- Data logging capabilities to monitor and verify payload integrity
- Full utilization of internal payload space
- Operates in ambient conditions from -30° C to +49° C
- Eliminate dry ice and its associated handling and Hazmat surcharges
- Worldwide service and support network
- Flexible leasing options

### Transport Temperature Sensitive Cargo with Confidence

**The first and only EASA and FAA approved unit of its kind.**

The AcuTemp RKN thermal pallet shipper is ideal for transporting temperature sensitive cargo such as pharmaceuticals, biomedical products, electronic devices and other perishable items in hot or cold environments. For over three years, the AcuTemp RKN has successfully transported thousands of shipments with no recorded product loss providing customers the confidence needed for their cold chain shipments.

The AcuTemp RKN is the only compressor-driven refrigeration unit of its kind approved by both the US Federal Aviation Administration (FAA) and the European Aviation Safety Agency (EASA).

### Precise Temperature Control

The AcuTemp RKN utilizes 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 extended battery operation (over 100 hrs) and precise temperature management (ranges of +4 to +25°C) provide the customer with the confidence needed when faced with an unpredictable situation during the air transport of sensitive cargo.

### Superior to Dry Ice

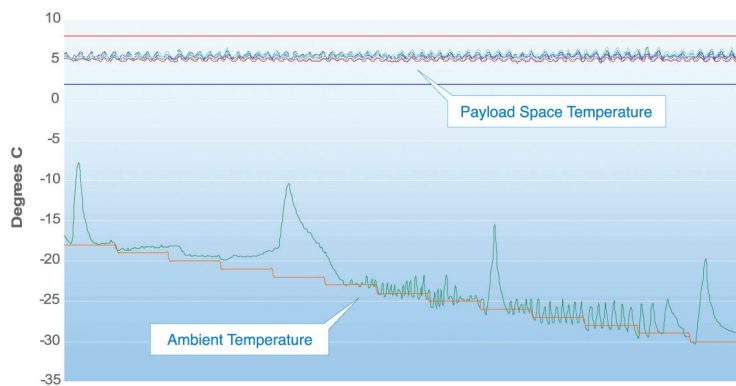
The compressor-driven technology of the AcuTemp RKN eliminates the use of dry ice and the challenges often associated with dry ice technology. Dry ice is cumbersome, costly and environmentally unfriendly.

The AcuTemp RKN:

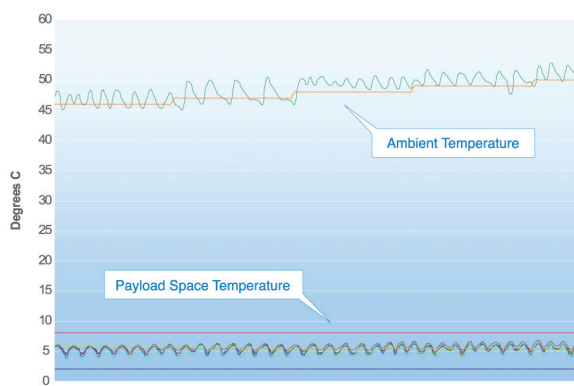
- Ends special handling charges and hazardous goods surcharges
- Eliminates special payload packaging and dry ice reloading
- Omits the requirement for refrigerated truck and warehouse staging

The AcuTemp RKN allows for uninterrupted routing of shipments. This unit consistently maintains the internal temperature of the payload compartment—even in extreme or fluctuating ambient environments.

Operates in ambient temperatures as low as -30°C



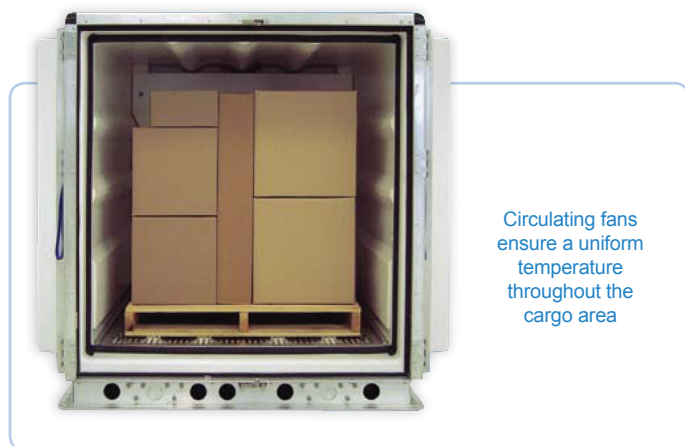
Operates in ambient temperatures as high as +49°C



## Advanced Data Logging and Monitoring

The AcuTemp RKN incorporates internal data logging capability to verify payload integrity.

- The unit uses three-point averaging to monitor and control internal temperature
- The unit also monitors and records in five minute intervals:
  - Ambient temperature
  - Battery state
  - System status
  - Door openings
  - Power mode changes
  - Maintenance requirement
- Door openings and power mode changes are recorded when they occur
- Encrypted data file can be downloaded via USB flash drive



## For Additional Information:

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## Physical Specifications

Payload Volume	1.975 m3 (70 ft3)
Internal Dimensions (H x W x L)	127.8 cm x 127.3 cm x 121.9 cm (50.3 in x 50.125 in x 48.0 in)
External Dimensions (H x W x L)	161.4 cm x 150.5 cm x 196.2 cm (63.56 in x 59.25 in x 77.25 in)
Tare Weight	1425 lb (646 kg)
Maximum Gross Weight	3500 lb (1588 kg)
Maximum Net Weight	2075 lb (941 kg)

## 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 +22°C ambient
    - Maximum recharging time: 8 hours when unit is not operating
  - 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  $\pm 2^\circ\text{C}$
  - 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

## Certifications

The AcuTemp RKN is certified for safe operation onboard aircraft by the following agencies:

- FAA
- EASA