

Active Temperature Controlled RKN Container



RKN-AT1

Scope of Application :

This product is applicable for international aviation cold chain transportation of drugs, vaccines, medicines, biological products, raw materials, high-end fresh food and other products which require strict temperature control.

Innovative Design

- Safe, reliable and secure
- Robust construction
- IoT functions
- Superior temperature uniformity
- Supports AC and DC, switches automatically





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Active Temperature Controlled RKN Container

Product Advantages

-  Robust construction with advanced technology to ensure reliable quality and stable performance
-  Superior internal temperature uniformity
-  Higher cost-performance
-  IoT functions: real-time online monitor of container internal and external temperature, internal and external humidity, location
-  Prevent internal temperature deviation and ensure the temperature uniformity under extreme environmental temperature changes

Specifications



Power	
Supports AC and DC, switches automatically	
Recharging power supply	100-240V AC, 50-60Hz
Maximum charging time (h)	6 (fast charging)
Maximum power during charging (w)	1,500

Temperature Control Performance

The temperature management system, developed independently, achieves accurate temperature control through compressor refrigeration and electric heating innovative air circulation system to effectively balance the temperature difference

Temperature range	Internal temperature tolerance	
0°C~+25°C (+32°F to +77°F)	At set temperature +2°C~+10°C (+35.6°F to +50°F), Tolerance +/-3°C (+/-5.4°F)	
	At set temperature +10°C~+20°C (+50°F to +68°F), Tolerance +/-5°C (+/-9°F)	
Battery life	Operating ambient temperature	Storage ambient temperature
When the ambient temperature is 25°C (77°F), the set temperature is 5°C (41°F), the container can operate for more than 50 hrs.	-20°C~+43°C (-4°F to +109.4°F)	-40°C~+50°C (-40°F to +122°F)

Construction

Internal effective volume	Exterior dimensions (D*W*H)	Interior dimensions (D*W*H)	Door opening (W*H)
2.2m ³ (77.7 foot ³)	1534x2005x1620mm (60.4x78.9x63.8in)	1288x1305x1310mm (50.7x51.4x51.6in)	1305x1310mm (51.4x51.6in)

Weight

Tare weight	Maximum allowable weight	Maximum payload
625kg (1377lbs)	1588kg (3500lbs)	963kg (2123lbs)

Data Recording and IoT Functions

Real-time data recording functions: internal and external temperature, internal and external humidity, door opening times and the container location information can be reviewed online
Standard USB port: available for data transfer

Others

Applicable Aircraft Models: A300, A310, A330, A340, A380, B747, B767, B777, DC10, IL86, MD11, L1011 as key examples

Note

Tare weight and maximum payload might vary due to load variations and maintenance

*Typical prototype test data

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