



TECHNICAL SPECIFICATION

Envirotainer® container RKN e1

Designed for extreme requirements of the healthcare industry, the RKN e1 container maintains product temperatures in the +2 to +8 °C range, controlled room temperature (+15 to +25 °C) range or at any chosen set temperature within the operating range of ±0 to +20 °C. The RKN e1 is a certified air cargo ULD (Unit Load Device) ensuring seamless handling throughout the supply chain worldwide. The unit can be carried on board the most common long-haul aircraft types.

Drawing on the benefits of the shape and size of the Envirotainer dry-ice container, the RKN e1 uses a different technology; compressor cooling and electrical heating.

Key features for consistent temperature-control:

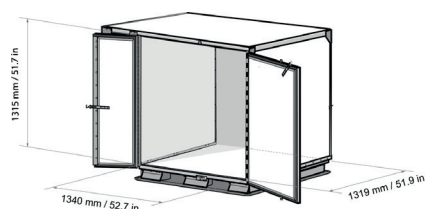
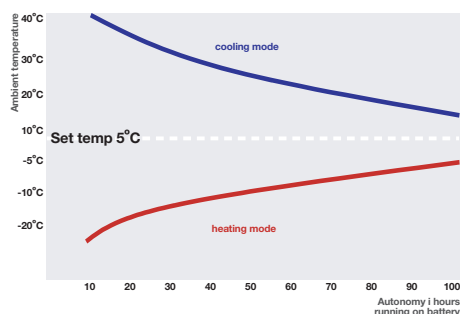
- Insulated container shell
- Electrical heating and compressor cooling
- One energy source. Rechargeable batteries that can be recharged at standard AC-power connection points
- Air circulated by the heating/cooling unit is close to the set temperature
- Enhanced air circulation inside the container ensures a low temperature gradient within the cargo space
- Convenient and simple loading for an optimized load thanks to the use of wide doors and spacers on the inside walls
- An easy to use control unit allowing simple operation of the container
- Data logging functionality
- Fully redundant charging, cooling and heating system

Performance data:

- Autonomy running on batteries > 100 h in a typical shipment scenario (dependent on ambient temperature exposure)
- Autonomy running on batteries at extreme conditions minimum 30 h
- Product set temperature range between ±0 to +20 °C (ideal performance at set temperature +5 °C)
- Maintains product temperature from +2 °C to +8 °C at container set temperature +5 °C
- Batteries charged (from 0 to 100%) in 8 h

Envirotainer is an open platform service provider - our products are made available worldwide through a range of partners in the airline and forwarding industry. Contact your service provider or contact Envirotainer directly to test the RKN e1 container.

Operating time (without recharging)



Refrigerating system

Thermostat-controlled air conditioning system with compressor cooling and electrical heating. Powered by rechargeable batteries.

Recharging power supply	100-240 V AC, 50-60 Hz
Maximum power consumption during charging	1850 W
Maximum charging time	8 h

Container set temperature range	0°C to +20°C (+32°F to +68°F)
Temperature tolerance in cargo space	
at set temp 0 to +10°C (+32°F to +50°F)	+/- 3°C (+/- 5.4°F)
at set temp +10°C to +20°C (+50°F to +68°F)	+/- 5°C (+/- 9°F)

Autonomy at container set temperature +5°C (41°F)	30 h
at ambient temperature -10°C (+144°F) or +30°C (+86°F)	

Operation range at container set temperature +5°C (41°F), ambient conditions*	-20°C to +40°C (-4°F to +104°F)
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Storage temperature range	-40°C to +50°C (-40°F to +122°F)
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Dimensions

External cube (volume)	4,8 m3 (169.6 foot3)
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External dimensions (L x W x H)	2000 x 1535 x 1620 mm (78.7 x 60.4 x 63.8 in)
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Internal dimensions (L x W x H)	1340 x 1319 x 1315 mm (52.7 x 51.9 x 51.7 in)
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Door opening (L x H)	1340 x 1315 mm (52.7 x 51.9 in)
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Internal cube (volume)	2,3 m3 (81.9 foot3)
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Weight

Tare weight**	635 kg (1,400 lbs)
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Max gross weight	1,588 kg (3,500 lbs)
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Max net weight**	953 kg (2,100 lbs)
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Other information

Suitable for use on aircraft A300, A310, A330, A340, A380, B747, B767, B777, DC10, IL86, MD11, L1011

Forkliftable with a slot-height of 95 mm (3.7 in), slot-width of 290 mm (11.4 in).

* please refer to test report "TR120013" for load specification.

** The tare weight (and thereby the max net weight) may change due to repairs, see manufacturer's plate for correct weight.

Contact information

It is easy to implement and work with an Envirotainer® solution. We offer a range of container types for convenient short and long term leasing from a worldwide network of stations.

Please contact one of our three operations centers for container leases or visit www.envirotainer.com for more information.

www.envirotainer.com

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Containers may diverge from the specifications indicated above. However, this will not affect the function of the container in question. The Lessee is aware of this and may not raise any claims due to such divergencies.