Envirotainer°

The Active Cold Chain

Releye® RLP

A new 3-pallet air freight solution offering the next level of performance

True innovation

Setting a new standard for temperature- controlled air cargo containers, the Releye® RLP is designed to meet the strictest requirements in pharmaceutical air freight. With its unsurpassed 170 hours of autonomy (more than one week) it will maintain the temperature and protect the cargo longer than any other available solution, without recharging. In most cases, it will be regularly recharged and keep protecting the cargo indefinitely. The integrated live monitoring enables a unique insight into product condition, location and progress of the shipment and sets a new standard for secure cold chain solutions.

We listened to our customers and designed the Releye® RLP according to five integrated advances.

CONTROL.

The Releye® RLP utilizes the latest technology and software for a consistent performance in any shipping scenario. The airflow, which is within the walls, provides a homogeneous temperature in all areas of the cargo bay. Thus, cargo will be protected independent of size, mass or position inside the container. The solution also comes with the latest vacuum insulated panel (VIP) technology that protects the cargo during the most extreme ambient conditions. Completely independent temperature control systems provide redundancy on all critical container functions.

MONITORING.

The unmatched live monitoring of position, temperature, battery level, humidity, door openings and cargo inside, allows you to continuously track your shipment as well as the status of your cargo. Thanks to the full sensor integration of the Releye® container, you can set up a customized alert notification system based on your specific needs and requirements and get an early notification prior to arrival, which enables process improvements and delivery planning. This also leads to quicker investigations of

risk assessments related to counterfeit, security concerns or shipment processes.

AUTONOMY.

With unsurpassed maintenance free autonomy of 170 hours (more than a week), the Releye® RLP protects the integrity of the cargo. The 170 hours is more than any passive solution and unlike passive, it can also be recharged whenever needed. This autonomy is enough to also cover transit-time and delays, without recharging. As the Releye® RLP has an excessive margin on its autonomy, it reduces the impact of process deviation, delays or unexpected change of route.

VALUE.

The RLP format, a new revolutionary footprint size, utilizes the space of two single-pallet containers on an aircraft to deliver three Euro pallets, thus achieving a 50 percent increase in efficiency. The Releye® RLP also has one of the highest loading heights in the industry of 132 cm (52 in). Thanks to the advanced airflow technology, it is possible to utilize this height to the maximum. In addition, the Releye® RLP is designed and verified for efficient Global Qualification.

SUSTAINABILITY.

Envirotainer operates the most CO_2 effective fleet in the entire temperature-controlled air freight industry. The introduction of the Releye® RLP reinforces this market leadership. The Releye® RLP provides outstanding environmental performance, delivering up to 90% reduction in CO_2 emissions compared to available passive solutions, based on life-cycle analysis. Envirotainer's operations are 100% climate neutral since 2020.

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The Releye® RLP is designed and developed together with the industry and it is a testament of how we pursue reliability in the world of temperature-controlled air freight.

Superior performance

To secure the temperature stability throughout the shipment period, regardless of ambient conditions, the Releye® RLP is designed with an established and proven electrical heating and cooling technology in combination with the latest VIP insulation technology.

Impact-resistant exterior

The Releye® RLP uses a special exterior composite to provide maximum cargo protection.

ULD (Unit Load Device)

A ULD can be carried on board the most common types of wide body aircrafts. Moreover, ULD's often get prioritized cargo status, are tracked in airlines fleet management and have a quick transfer process.

Integrated data-loggers

Validated temperature data accessible anytime during the shipment, with various applications such as back-up for, or replacement of, loggers and to speed up customs clearance.

Human error preventive design

Minimizes the risk of incorrect handling and reduces the impact of such an event. This includes authorized setting control to avoid risk of tampering with the settings. The smart and actionable alerts, on the local container screen and live monitoring platform, provides full visibility for proactive and reactive measures.

Unique airflow system

Delivers a homogeneous temperature in all areas of the cargo bay and allows you to maximize the amount of cargo you can load.

Airflow curtain

As the air flows from the ceiling, it creates an "airflow curtain" when the doors are open, thereby reducing the impact of a door opening should they occur.

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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

Envirotainer® container Releye® RLP

Refrigerating system

Air conditioning system with compressor cooling and electrical heating. Powered by rechargeable NiMH batteries.

Power rating	100 – 240 V AC, 50 – 60 Hz, Max 16 A
Charging temperature limits	-20 °C to + 40 °C (41 °F to +104 °F)
IP rating	IP15B
Typical charging time from 0% to fully charged	11 h
Typical charging time for an additional 24 h battery time	1.5 h

Container temperature set point	Set point 5 and 20 °C (41 and 68 °F)
Recommended charging temperatures	+5 °C to +25 °C (+41 °F to +77 °F)
Set point accuracy	For set point 5 °C: ±2°C (±3.6 °F)
	For set point 20 °C: ±3 °C (±5.4 °F)

Autonomy at container temperature range 2–8°C	170 h at 20 °C (68 °F) ambient
Operational limits at any set point	-32 °C to +49 °C (-25.6 °F to +120.2 °F)

Live monitoring capabilities

8 Cargo space temperatures (°C)	Cargo loaded inside (yes/no)
2 Ambient temperatures (°C)	Door openings (open/closed)
Cargo space humidity (RH %)	Battery level (%)
Ambient humidity (RH %)	GPS location

Dimensions

External cube (volume)	7.9 m3
	279 ft3
External dimensions (L x W x H)	3175 x 1534 x 1626 mm
	(125 x 60.39 x 64.02 in)
Internal dimensions (L x W x H)	2475 x 1354 x 1320 mm
	(97.44 x 53.31 x 51.97 in)
Door opening (L x H)	1354 x 1320 mm
	(53.31 x 51.97 in)
Internal cube (volume)	4.4 m3
	156 ft3
Pallet capacity	3 Euro pallets (800 x 1200 mm), (31,5 x 47,2 in)
	2 US pallets (1016 x 1220 mm), (40 x 48 in)

Weight

Tare weight*	880 kg
	(1,940 lbs.)
Max gross weight	3175 kg
	(6,999 lbs.)
Max net weight*	2295 kg
	(5,060 lbs.)

Other information

Suitable for use on aircraft A300, A310, A330, A340, A350, A380, B747, B767, B777, B787, DC10, IL86, MD11, L1011. For other aircrafts, alternative operating procedures may apply.

ATA code	LD-11

Forkliftable with slot-height 95 mm (3.74 in), slot-width 256 mm (10.08 in) and slot distance 605 mm (23.82 in).

* Tare weight and max net weight may change due to repairs, see the manufacturer's plate for correct weight.

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RLP
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PC