

Pharmaceutical Logistics

Innovative solutions for your time and temperature sensitive shipments

24/7
°C

"THANKS FOR UNDERSTANDING OUR NEEDS. BECAUSE OF YOUR PARTNERSHIP,
OUR LOGISTICAL PROCESSES ALWAYS RUN SMOOTHLY."

Patrick Preikschat, Head of Pharmaceutical Competence Centre at Agility Global Integrated Logistics



High-end pharmaceutical logistics

When transporting your pharmaceuticals, you need a strong partner with in-depth knowledge of the Healthcare and Pharmaceutical industry, and trusted expertise. We continuously focus on developing innovative added-value services to meet the demands of one of the world's fastest growing industries. To ensure proper management of your business we have designed a special cool chain product portfolio: Closed Cool Chain solutions® and Controlled Cool Chain solutions®.

■ The power of product integrity

Transporting time- and temperature-sensitive products requires the best possible care. The health and safety of the patients who use them depend on it. To underscore the quality and integrity of pharmaceutical and healthcare products we comply with all the necessary transportation regulations. These include the EU "Guidelines on Good Distribution Practice of Medicinal Products for Human Use" and World Health Organization guidelines. But we go further. Our warehouse operations in Paris and Amsterdam are IATA CEIV Pharma certificated, as are our respective airline operations. With this certification, the Air France KLM Group has set a recognized industry standard for pharmaceutical logistics by air. Our customers can have peace of mind when shipping valuable medicines across the world

■ Your highly sensitive shipments need expertise

Transporting your healthcare products by air needs the establishment of complex logistical methods to maintain pharmaceutical shipments' integrity. It requires specific equipment and storage facilities, harmonised handling procedures and, above all, a dedicated team with expertise in the commercial and operational domains. Our commercial and operational teams are well-trained and their in-depth knowledge empowers them to effectively manage your pharmaceutical products safely.

■ The right network to serve you

The pharmaceutical industry relies on air transport for its speed, reliability and efficiency. As your air freight partner, we give you access to a unique worldwide network. Our pharma network stations are only offered when all conditions, in terms of facilities and capabilities, are fully met. We believe that the people in our cool

chain take greater responsibility when they know the precise way to handle your shipments. For this reason each shipment is powered by its own Special Handling Code.

■ Your shipments are never out of sight

The status of all your pharmaceutical shipments can be simply tracked from origin to destination via the track & trace option on our website or via our app. New technologies, such as our telemetry programme, have been proven to deliver significant improvements to our operational excellence. We give you the possibility to use one of our connectivity solutions on board our flights, allowing you to have constant and accurate information about your shipments.



Choose the optimal solution for your products

■ Closed Cool Chain solutions®

Our premium solution for transporting temperature sensitive shipments utilises **active** or **passive** containers. With our Closed Cool Chain solutions, we close the cool chain for shipments requiring the strictest temperature control. Together with our packaging partners we offer several rental arrangements for specialised containers for the transport of temperature sensitive products, such as vaccines and insulin. These rental packages provide you with cost-efficient and flawless airport-to-airport or door-to-door solutions.



Closed Cool Chain solutions® specifications:

Active containers	Passive containers
<ul style="list-style-type: none"> • Two different sizes of active containers; RAP and RKN. 	<p>Several sizes of high performance passive containers using Phase Change Materials to maintain a constant temperature during transportation for a minimum of 120 hours.*</p>
<ul style="list-style-type: none"> • Both dry ice and electrical units are approved. 	
<ul style="list-style-type: none"> • Transport in temperature-controlled active containers. 	<p>Transport in temperature-controlled passive containers.</p>
<ul style="list-style-type: none"> • Highest loading priority. 	<p>Highest loading priority.</p>
<ul style="list-style-type: none"> • Dedicated monitoring and conditioned storage for transit. 	<p>Dedicated monitoring.</p>
<ul style="list-style-type: none"> • Set temperatures between -20°C and $+30^{\circ}\text{C}$ according to your specifications. 	<p>Temperature ranges between -50°C and $+40^{\circ}\text{C}$, according to your specifications.</p>
<ul style="list-style-type: none"> • Mandatory temperature and dry ice acceptance checks. 	<p>A seamless handling process throughout the supply chain worldwide.</p>
<ul style="list-style-type: none"> • Mandatory temperature and dry ice acceptance checks. 	<p>Optimal container sizes for US and Euro pallets.</p>
<ul style="list-style-type: none"> • Notification to the captain to ensure in-flight conditioning of your shipments (NOTOC). 	
<ul style="list-style-type: none"> • Reporting of temperature, re-icing and battery levels at all touch points. 	
<ul style="list-style-type: none"> • Temperature-controlled trucking. 	

* Timeframe dependent upon ambient conditions



■ **Controlled Cool Chain solutions®**

This service is specifically designed to transport and store valuable and temperature sensitive goods within defined temperature ranges, in combination with your own packaging solution. Our worldwide operational teams are trained to keep your healthcare products within the required temperature range during transport and storage.

Pharma Control 2-8°C and Pharma Control 15-25°C

For healthcare products that require transport and storage within these defined limited temperature ranges, we offer you the following services:

- Air transport, trucking and warehousing at temperatures between 2°C and 8°C or 15°C and 25°C;
- Storage in temperature-controlled facilities on airport premises;
- Dedicated monitoring of the cool chain;
- Notification to the captain to ensure in-flight conditioning (NOTOC).

Pharma Control 2-25°C

This solution offers protection against extreme temperatures and weather conditions while your shipment is at our facilities, including such services as:

- Air transport, trucking and storage between 2°C and 25°C;
- Dedicated monitoring in case of extreme weather conditions;
- Thermal blankets on request for additional temperature control and protection.



Containers in the Closed Cool Chain solutions®

		Active containers					
Container Technology	refrigerated	electric - heat or cool			Passive containers		
		phase change materials- heat or cool					
Our Partners   	 RAPt2 (LD9)	 RKnt2 (LD3)	 RKN (LD3)	 RKN (LD3)	 RKN (LD3)	 RAP (LD9)	 RAP (LD9)
Temperature ranges	-20 to +20 °C -4 to +68 °F	-20 to +20 °C -4 to +68 °F	+4 to +25 °C +39.2 to +77 °F	+0 to +20 °C +32 to +68 °F	+2° to +30 °C +35.6 to +86 °F	+2° to +30 °C +35.6 to +86 °F	+0° to +25 °C +32 to + 77 ° F
Container Technology	phase change materials- heat or cool						
Our Partners 	 JYP TWINx	 JYP XLx	 JYP USx	 JYP EUROx	 JYP 1/2EURO		
Temperature ranges	-70 to +40 °C -58 to +104 °F	-50 to +40 °C -58 to +104 °F	-50 to +40 °C -58 to +104 °F	-50 to +40 °C -58 to +104 °F	-50 to +40 °C -58 to +104 °F	For a complete overview of all our container types and specs, visit www.atk/cargo.com/pharma	

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“THANKS FOR BEING
A RELIABLE PARTNER. WHEN I THINK
OF SHIPPING PHARMA PRODUCTS,
YOU ARE ONE OF THE FIRST
AIRLINES THAT POP INTO MY MIND.”

Debby Mattys,

Global Logistics Associate Director Compliance EMEA

at Merck Sharp & Dohme

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For more detailed information about our pharma network, please contact
your local sales manager or check our website
for our pharma network tool: www.afklcargo.com.