WORLDWIDE TEMP CONTROL
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THE CHAMPIONS

HIGHLIGHTED FACILITIES

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WORLDWIDE CITIES SERVED
THE EXPEDITE TC® PROMISE
We recognize the value of your shipments. Beyond their monetary value, these sensitive shipments help change lives all around the world. ExpediteTC® is more than just a product name — it’s our promise to you that your delicate shipments will arrive on time, on temperature.

TRUSTED COLLABORATION
Our worldwide team of dedicated ExpediteTC® Sales and Operations Champions partner with you to plan and deliver the best temperature-controlled solution for your shipment. Whether you need active or passive solutions, our partnerships ensure quality and adherence to industry standard certifications from acceptance to delivery.

FUTURE FOCUSED
We deliver cold chain solutions around the globe to more than 150 cities in 46 countries. In addition to our interline partnerships, we offer multiple daily flights to key destinations worldwide that deliver uninterrupted, temperature-controlled services in hard-to-reach locations.

We are continuously reviewing our network and services to provide the very best solutions for your business. We have committed more time and resources than ever before to ensure the highest level of service for every shipment, every time.
ExpediteTC° is with you all way

BOOK  TRACK  PICK UP

Contact us 24/7 at our ExpediteTC° Resource Desk 1.888.733.1866 (Toll Free)  expedite@aa.com or aacargo.com/expedite

American Airlines Cargo, the Flight Symbol and ExpediteTC° logos are marks of American Airlines Inc. All third-party marks are the property of those respective companies © 2023 American Airlines Inc. All rights reserved.
Our champions are the heart of our ExpediteTC™ promise. Well-versed in temperature-controlled shipping solutions, they're here to work closely with you and the operation to plan and deliver your shipments on time, on target.

**Kevin Shelton**
Global Program Manager

With several years' experience in the Pharmaceutical, Life Science and Healthcare vertical, Kevin has led American Airlines Cargo in obtaining CEIV certification for our major hubs and headquarters.

kevin.e.shelton@aa.com
682-278-7210

**Rosalind Fields**
Cargo Sales Central Region

Dr. Rosalind Fields is a graduate of Columbia Southern University with a doctoral degree in Business Administration. She has served as a specialty products trainer for IATA covering various products.

rosalind.fields@aa.com
404-432-6448

**Amy Feltham**
Cargo Sales Northern Europe

Amy is responsible for growing the TC product in the northern Europe region. She represents the main support contact for customers and vendors. She has expertise in all things Life Sciences/Healthcare and temperature control.

amy.feltham@aa.com
1-0028-660-2790

**Russell Santiago**
Cargo Sales FCLA Region

A graduate of Universidad Interamericana, Russell has more than 25 years’ experience with American Airlines. He is based in San Juan, Puerto Rico.

russell.santiago@aa.com
787-253-6234

**Michael Ferrandiz**
Cargo Sales Western Region

A graduate of UCLA, Michael has more than 20 years of experience with American Airlines working in Cargo. He is based in Los Angeles.

michael.ferrandiz@aa.com
310-944-5460

**Toshiaki Hagio**
Cargo Sales Asia/Pacific Region

Having spent most of his career at airlines and forwarders, Toshiaki has 10+ years of experience with American Airlines. He is based in Tokyo.

toshiaki.hagio@aa.com
81-3-4550-2187

**Gina Sumera**
Cargo Sales Eastern Region

With nearly 30 years of experience with American Airlines, Gina has worked to find solutions for shippers and forwarders. She is based in Chicago.

gina.peckora@aa.com
773-818-2391

**Ryan Henry**
Cargo Sales Global & Key

Ryan joined American Airlines Cargo from the PAX side where he was a Deal Consultant for the Strategic Account portfolio. Ryan brings experience in both travel and technology sales to the AA Cargo team.

ryan.henry@aa.com
682-278-0889
Life Sciences Healthcare is the American Airlines Cargo suite of products designed to ensure safe and timely delivery of commodities vital to our health and well-being. Life Sciences is an industry term that includes the science or components related to human biology. From a cargo perspective, Life Sciences shipments can include pharmaceuticals and vaccines, cord blood or organs for transplant and other biologics with research or medical components.

Life Sciences / Healthcare services are provided through the following products:

**Priority Parcel Service**
- Shipments under 100 pounds
- Next-flight service and highest boarding priority

**Critical PPS**
- Most vital shipments requiring enhanced level of service
- Proactive monitoring process

**MEDEVAC**
- Time-critical, life-saving medical emergency and organ shipments
- Partnership with air traffic control

**ExpeditEFS**
- Bulk or containerized shipments
- Flight-specific shipping and priority handling
- Fastest possible flight connections to more than 100 destinations worldwide

**ExpeditEC**
- Active and passive temperature control capabilities
- Industry certification in pharmaceutical handling excellence

Visit [aacargo.com](http://aacargo.com) to learn more about the Life Sciences Healthcare program. For frequently asked questions, see our FAQ.
Highlighted Facilities

Specifically designed to cater to a full range of pharmaceutical products, some of our major hubs and line stations around our network include controlled room temperature (CRT), extended room temperature (ERT), refrigerated (COL) or frozen (FRO) facilities to protect critical pharmaceutical products. These spaces are designed to protect all shipments requiring stable temperatures the entire way from acceptance to delivery.

KEY DOMESTIC LOCATIONS

<table>
<thead>
<tr>
<th>Location</th>
<th>Temp Range</th>
<th>Dimensions</th>
<th>More Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL (CRT)</td>
<td>+15°C to +25°C</td>
<td>6,000 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>PHL (COL)</td>
<td>+2°C to +8°C</td>
<td>3,000 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>PHL (FRO)</td>
<td>-20°C</td>
<td>1,500 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>SJU (CRT)</td>
<td>+15°C to +25°C</td>
<td>600 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>SJU (COL)</td>
<td>+2°C to +8°C</td>
<td>400 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>MIA (CRT)</td>
<td>+15°C to +25°C</td>
<td>2,200 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>DFW (CRT)</td>
<td>+15°C to +25°C</td>
<td>800 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>DFW (COL)</td>
<td>+2°C to +8°C</td>
<td>1800 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>ORD (CRT)</td>
<td>+15°C to +25°C</td>
<td>300 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>JFK (CRT)</td>
<td>+15°C to +25°C</td>
<td>315 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>JFK (COL)</td>
<td>+2°C to +8°C</td>
<td>1,175 sq. ft.</td>
<td>See hours »</td>
</tr>
<tr>
<td>CLT (COL)</td>
<td>+2°C to +8°C</td>
<td>512 sq. ft.</td>
<td>See hours »</td>
</tr>
</tbody>
</table>

Temperature Spaces

- CRT +15°C to +25°C
  Controlled Room Temperature (CRT)
- FRO -10°C to -20°C
  Frozen (FRO)
- COL +2°C to +8°C
  Refrigerated (COL)
- ERT +2°C to +25°C
  Extended Room Temperature (ERT)
### Key International Locations

<table>
<thead>
<tr>
<th>Location</th>
<th>Temp Range</th>
<th>Dimensions</th>
<th>More Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMS (CRT)</td>
<td>+15°C to +25°C</td>
<td>212 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>DUB (COL)</td>
<td>+2°C to +8°C</td>
<td>30 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>DUB (CRT)</td>
<td>+15°C to +25°C</td>
<td>90 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>EZE (CRT)</td>
<td>+15°C to +25°C</td>
<td>975 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>EZE (COL)</td>
<td>+2°C to +8°C</td>
<td>2,392 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>FRA (COL)</td>
<td>+2°C to +8°C</td>
<td>400 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>FRA (CRT)</td>
<td>+15°C to +25°C</td>
<td>300 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>LHR (CRT)</td>
<td>+15°C to +25°C</td>
<td>1,194 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>GRU (CRT)</td>
<td>+15°C to +25°C</td>
<td>227 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>GRU (COL)</td>
<td>+2°C to +8°C</td>
<td>1,100 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>GRU (FRO)</td>
<td>-20°C</td>
<td>300 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>ICN (CRT)</td>
<td>+15°C to +25°C</td>
<td>95 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>ICN (COL)</td>
<td>+2°C to +8°C</td>
<td>95 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>ICN (FRO)</td>
<td>-20°C</td>
<td>59 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>NRT (CRT)</td>
<td>+15°C to +25°C</td>
<td>520 sq meters</td>
<td>See hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location</th>
<th>Temp Range</th>
<th>Dimensions</th>
<th>More Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRT (COL)</td>
<td>+2°C to +8°C</td>
<td>560 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>NRT (FRO)</td>
<td>-20°C</td>
<td>210 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>PVG (CRT)</td>
<td>+15°C to +25°C</td>
<td>610 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>PVG (COL)</td>
<td>+2°C to +8°C</td>
<td>348 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>PVG (FRO)</td>
<td>-20°C</td>
<td>214 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>SYD (COL)</td>
<td>+2°C to +8°C</td>
<td>30 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>SYD (FRO)</td>
<td>-20°C</td>
<td>30 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>LHR (COL)</td>
<td>+2°C to +8°C</td>
<td>80 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>MXP (COL)</td>
<td>+2°C to +8°C</td>
<td>30 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>MXP (CRT)</td>
<td>+15°C to +25°C</td>
<td>30 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>SCL (COL)</td>
<td>+2°C to +8°C</td>
<td>1560 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>ZRH (CRT)</td>
<td>+15°C to +25°C</td>
<td>364 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>ZRH (COL)</td>
<td>+2°C to +8°C</td>
<td>100 sq meters</td>
<td>See hours</td>
</tr>
<tr>
<td>ZRH (FRO)</td>
<td>-20°C</td>
<td>20 sq meters</td>
<td>See hours</td>
</tr>
</tbody>
</table>

Specifically designed to cater to a full range of pharmaceutical products, some of our major hubs and line stations around our network include controlled room temperature (CRT), extended room temperature (ERT), refrigerated (COL) or frozen (FRO) facilities to protect critical pharmaceutical products. These spaces are designed to protect all shipments requiring stable temperatures the entire way from acceptance to delivery.
Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Northeast pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in Philadelphia, PA.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The 25,000-square-foot (2,325 m²), state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 6,000 ft² (560 m²) for Controlled Room Temperature (CRT) passiveshipments at +15°C to +25°C
  - A 3,000 ft² (280 m²) refrigerated area for passive shipments requiring +2°C to +8°C maintenance (COL)
  - A deep-frozen area (FRO) that caters to shipments needing to be kept at -10°C to -20°C
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 30+ RKNs
  - Advanced technology for monitoring products with proactive alarming, validated to 0.25°C
  - A full back-up power generation system

**Committed to the Cold Chain Industry**

American Airlines Cargo continues to invest in technology and enhancements that allow us to meet and exceed the expectations of our ExpediteTC® customers who have specific temperature requirements.

**24/7 ExpediteTC Resource Desk**

To book your shipment, contact the dedicated Expedite TC® Help Desk at:
1.888-733-1866 (Toll free)
Email: epxtc@aa.com

Learn more about ExpediteTC® visit aacargo.com/ExpediteTC or contact your local sales representative.
Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Caribbean pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in San Juan.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 600 ft² (182 m²) for Controlled Room Temperature (CRT) passive shipments at +15°C to +25°C
  - A 400 ft² (122 m²) refrigerated area for passive shipments requiring +2°C to +8°C maintenance (COL)
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 10+ RKNs
  - Advanced technology for monitoring products with proactive alarming, validated to 0.25°C

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Email: epextc@aa.com

Learn more about ExpediteTC® visit aacargo.com/ExpediteTC or contact your local sales representative.
Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Southern pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in Miami, FL.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 2,200 ft² (671 m²) for Controlled Room Temperature (CRT) passiveships at +15°C to +25°C
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 30+ RKNs
  - Advanced technology for monitoring products with proactive alarming, validated to 0.25°C

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Dallas/Ft.Worth (DFW)

Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Western pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in Dallas/Ft. Worth, TX.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 800 ft² (244 m²) for Controlled Room Temperature (CRT) passiveshipments at +15° C to +25° C
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 30+ RKNs
  - Advanced technology for monitoring products with proactive alarming validated to 0.25° C

Committed to the Cold Chain Industry

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London Heathrow (LHR)

Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Northern Europe pharmaceutical corridor—the American Airlines Cargo pharmaceutical handling facility in London Heathrow.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 300 ft² (92 m²) for Controlled Room Temperature (CRT) passive shipments at +15°C to +25°C
  - A 215 ft² (66 m²) refrigerated area for passiveshipments requiring +2°C to +8°C maintenance (COL)
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 15+ RKNs
  - Advanced technology for monitoring products with proactive alarming, validated to 0.25°C

Commitment to the Cold Chain Industry

American Airlines Cargo continues to invest in technology and enhancements that allow us to meet and exceed the expectations of our ExpediteTC® customers who have specific temperature requirements.

24/7 ExpediteTC Resource Desk

To book your shipment, contact the dedicated Expedite TC® Help Desk at:
1.888.733.1866 (Toll Free)
Email: epxtc@aa.com

Learn more about ExpediteTC® visit aacargo.com/ExpediteTC or contact your local sales representative.
Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Midwest pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in Chicago, IL.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 300 ft² (92 m²) for Controlled Room Temperature (CRT) passive shipments at +15° C to +25° C
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 10+ RKNs
  - Advanced technology for monitoring products with proactive alarming; validated to 0.25° C

**Committed to the Cold Chain Industry**

American Airlines Cargo continues to invest in technology and enhancements that allow us to meet and exceed the expectations of our ExpediteTC® customers who have specific temperature requirements.

**24/7 ExpediteTC Resource Desk**

To book your shipment, contact the dedicated Expedite TC® Help Desk at: 1.888.733.1866 (Toll Free)

Email: epxtc@aa.com

Learn more about ExpediteTC® visit aacargo.com/ExpediteTC or contact your local sales representative.
New York City (JFK)

ExpediteTC°

Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Northeast pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in New York City, NY.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 325 ft² (30 m²) for Controlled Room Temperature (CRT) passive shipments at +15°C to +25°C
  - A 1,179 ft² (109 m²) refrigerated area for passive shipments requiring +2°C to +8°C maintenance (COL)
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 20+ RKNs
  - Advanced technology for monitoring products with proactive alarming, validated to 0.25°C

Committed to the Cold Chain Industry

American Airlines Cargo continues to invest in technology and enhancements that allow us to meet and exceed the expectations of our ExpediteTC° customers who have specific temperature requirements.

24/7 ExpediteTC Resource Desk

To book your shipment, contact the dedicated Expedite TC° Help Desk at:
1.888.733.1866 (Toll Free)
Email: epextc@aa.com

Learn more about ExpediteTC° visit aacargo.com/ExpediteTC or contact your local sales representative.
Now your temperature-sensitive, life science and healthcare cargo has a brand-new option when shipping in and out of the strategic Eastern Ireland pharmaceutical corridor of the United States – the American Airlines Cargo pharmaceutical handling facility in Dublin.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 968 ft² (90 m²) for Controlled Room Temperature (CRT) passive shipments at +15°C to +25°C
  - 322 ft² (30 m²) for Refrigerated Room (COL) passive shipments at +2°C to +8°C
  - An Active Container Management (ACM) area, including charging stations with capacity for simultaneous re-charging of 12+ RKNs
  - Advanced technology for monitoring products with proactive alarming validated to 0.25°C

**Committed to the Cold Chain Industry**

American Airlines Cargo continues to invest in technology and enhancements that allow us to meet and exceed the expectations of our ExpediteTC® customers who have specific temperature requirements.

**24/7 ExpediteTC Resource Desk**

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1.888.733.1866 (Toll Free)
Email: epxtc@aa.com

Learn more about ExpediteTC® visit aacargo.com/ExpediteTC or contact your local sales representative.
Now your temperature-sensitive, life science and healthcare cargo has an option when shipping in and out of Europe– the American Airlines Cargo handling facility in Frankfurt, Germany.

- A dedicated, purpose-built facility.
- Specifically designed to cater to a full range of pharmaceutical products.
- The state-of-the-art facility is staffed/monitored 24 hours a day, 7 days a week and includes:
  - 3,229 ft² (300 m²) refrigerated area (COL) for passive shipments that need to be maintained at +2°C to +8°C
  - 4,305 ft² (400 m²) of Controlled Room Temperature (CRT) for passive shipments at +15°C and +25°C
  - Active Contained Management (ACM) includes capacity for simultaneous charging of up to 15+ RKN's
  - Advanced technology for monitoring products with proactive alarming
  - Storage of complete units and Direct access Airside

**Committed to the Cold Chain Industry**
American Airlines Cargo continues to invest in technology and enhancements that allow us to meet and exceed the expectations of our ExpediteTC® customers who have specific temperature requirements.

**24/7 ExpediteTC Resource Desk**
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1.888.733.1866 (Toll Free)
Email: exptc@aa.com

Learn more about ExpediteTC® visit aacargo.com/ExpediteTC or contact your local sales representative.
### ExpediteTC® Life Cycle

<table>
<thead>
<tr>
<th>Origin</th>
<th>Transit</th>
<th>Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>American Airlines Cargo Facility</strong></td>
<td><strong>Aircraft Loading, Transport and Offloading</strong></td>
<td><strong>American Airlines Cargo Facility</strong></td>
</tr>
</tbody>
</table>
| ▪ Freight handled in adherence to customer-specific SOPs | ▪ Highest freight boarding priority  
▪ Freight is positioned on aircraft for safest transport  
▪ First priority off-loaded | ▪ Freight handled in adherence to customer-specific SOPs  
▪ Temperature-controlled storage  
▪ Temperature notifications at specific touch points, 24/7 and in real time  
▪ Proactive temperature and battery voltage check for active units |
| ▪ Temperature-controlled storage  
▪ Temperature notifications at specific touch points, 24/7 and in real time  
▪ Proactive temperature and battery voltage check for active units | ▪ Expedited runner transports cargo | ▪ Expedited runner meets aircraft and transports cargo |

Contact us 24/7 at our ExpediteTC Resources Desk 1888-783-1866 (Toll Free); expedite@aa.com or aaairport.com/expedited.

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### Active and Passive Solutions

**ExpediteTC® Feature**

<table>
<thead>
<tr>
<th></th>
<th>Active</th>
<th>Passive</th>
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<tbody>
<tr>
<td>Highest BoardingPriority</td>
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<td>✔️</td>
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<tr>
<td>Complete Shipment Tracking</td>
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<tr>
<td>Online</td>
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<tr>
<td>24/7 Specialized Resource Desk</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>High Visibility Monitoring</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Skilled Shipment Handling</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Unique Labeling for Quick Identification</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Detailed Checklist/Control Record</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Contingency Planning</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Worldwide Cold Chain Training Program</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Convenient Container Lease Program</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Container Repositioning</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Re-Icing &amp; Battery Changes Needed</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>QEP Accredited in 60+ Cities &amp; 20+ Countries</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Active Containers From -20°C to +20°C C</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Active Container Management (ACM) Areas</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

**Active Solutions**

Our active solutions offer advanced, temperature-controlled containers to actively regulate temperature levels.

**Passive Solutions**

Our passive solutions protect pre-packaged shipments by offering space in our temperature-controlled environments and careful handling by our experts.

---

We transport shipments in accordance with American Airlines standards. Our procedures have been tested and again, so you can rest easy knowing your shipment will reach its destination at its desired temperature.
### CSafe RKN, RAP and APS
CSafe containers provide an active compressor solution that supports colder temperatures at 2°C to 8°C (35°F to 46°F) and 15°C to 25°C (59°F to 77°F).

CSafe containers are available in single pallet (RKN) or multi-pallet (RAP) sizes.

<table>
<thead>
<tr>
<th>Features</th>
<th>CSafe RKN</th>
<th>CSafe RAP</th>
<th>CSafe APS Single</th>
<th>CSafe APS Double</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Set Points (Range)</td>
<td>+4°C to +25°C</td>
<td>+4°C to +25°C</td>
<td>+2°C to +25°C</td>
<td>+2°C to +25°C</td>
</tr>
<tr>
<td>Temperature Control Tolerances</td>
<td>±2°C at +5°C, ±2°C at +20°C</td>
<td>±3°C at +5°C, ±1.5°C at +20°C</td>
<td>±2°C at +5°C, ±2°C at +20°C</td>
<td>±2°C at +5°C, ±2°C at +20°C</td>
</tr>
<tr>
<td>Ambient Operating Temperature Ranges</td>
<td>at any temp. -30°C to +49°C</td>
<td>at any temp. -30°C to +54°C</td>
<td>at any temp. -30°C to +54°C</td>
<td>at any temp. -30°C to +54°C</td>
</tr>
<tr>
<td>Data Logging</td>
<td>Yes – via USB</td>
<td>Yes – via USB</td>
<td>Yes – via USB</td>
<td>Yes – via USB</td>
</tr>
<tr>
<td>Insulation</td>
<td>ThermoCor® VIP</td>
<td>ThermoCor® VIP</td>
<td>ThermoCor® VIP</td>
<td>ThermoCor® VIP</td>
</tr>
<tr>
<td>Cargo Compartment Volume (Payload)</td>
<td>1.975 m³ (70 ft³)</td>
<td>6.68 m³ (236 ft³)</td>
<td>1800L (63.57 ft³)</td>
<td>3260L (115.12 ft³)</td>
</tr>
<tr>
<td>Main Cargo Area Dimension (L x W x H)</td>
<td>121x127x127 cm</td>
<td>248x208x130 cm</td>
<td>1189x1244x1234 mm</td>
<td>2118x1244 x 1234 mm</td>
</tr>
<tr>
<td>Max. Time to Full Charge</td>
<td>5 hours</td>
<td>10 hours</td>
<td>10 hours</td>
<td>10 hours</td>
</tr>
<tr>
<td>Operating Battery Time Depending on ambient temperature</td>
<td>&gt;120 hours*</td>
<td>&gt;120 hours*</td>
<td>&gt;120 hours*</td>
<td>&gt;120 hours*</td>
</tr>
<tr>
<td>Tare Weight</td>
<td>646 kg (1425 lb)</td>
<td>1213 kg (2675 lb)</td>
<td>415 kg (914.9 lb)</td>
<td>550 kg (1213 lb)</td>
</tr>
<tr>
<td>Max Gross Weight</td>
<td>1588 kg (3500 lb)</td>
<td>6033 kg (13300 lb)</td>
<td>1588 kg (3500 lb)</td>
<td>6033 kg (13300 lb)</td>
</tr>
<tr>
<td>Max Net Weight</td>
<td>941 kg (2075 lb)</td>
<td>4891 kg (10625 lb)</td>
<td>941 kg (2075 lb)</td>
<td>4891 kg (10625 lb)</td>
</tr>
<tr>
<td>Forkliftable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Stations in Network</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Leasing Available</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Envirotainer® Solutions

#### Envirotainer RKN, RAP and RLP
Envirotainer provides pallet-size containers with active compressor cooling and electric heating technology in RKN and RAP sizes. This helps maintain the temperatures needed to meet pharmaceutical industry requirements and easily move your products through the American Airlines shipping network.

<table>
<thead>
<tr>
<th>Features</th>
<th>Available Units For Lease</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Temperature Set Points (Range)</strong></td>
<td>RKN e1</td>
</tr>
<tr>
<td>+0°C to +20°C</td>
<td>+0°C to +20°C</td>
</tr>
<tr>
<td><strong>Temperature Control Tolerances</strong></td>
<td>±3°C at 0°C to 10°C</td>
</tr>
<tr>
<td>±5°C at 10°C to 20°C</td>
<td>±5°C at 10°C to 25°C</td>
</tr>
<tr>
<td><strong>Ambient Operating Temperature Ranges</strong></td>
<td>at set temp. of +5°C</td>
</tr>
<tr>
<td>-20°C to +40°C</td>
<td>-20°C to +40°C</td>
</tr>
<tr>
<td><strong>Data Logging</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Insulation</strong></td>
<td>Foam</td>
</tr>
<tr>
<td><strong>Cargo Compartment Volume (Payload)</strong></td>
<td>2.3 m³ (81.9 ft³)</td>
</tr>
<tr>
<td><strong>Main Cargo Area Dimension (L x W x H)</strong></td>
<td>134 x 131 x 131 (cm) 52 x 51 x 51 (in)</td>
</tr>
<tr>
<td><strong>Max Time to Full Charge</strong></td>
<td>8 hours</td>
</tr>
<tr>
<td><strong>Operating Battery Time Depending on ambient temperature</strong></td>
<td>30 to 100 hours*</td>
</tr>
<tr>
<td><strong>Tare Weight</strong></td>
<td>635 kg (1,400 lb)</td>
</tr>
<tr>
<td><strong>Max Gross Weight</strong></td>
<td>1,588 kg (3,300 lb)</td>
</tr>
<tr>
<td><strong>Max Net Weight</strong></td>
<td>953 kg (2,100 lb)</td>
</tr>
<tr>
<td><strong>Forkliftable</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Stations in Network</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>Leasing AVAILABLE</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Thermosafe Solutions

#### Pegasus ULD

ThermoSafe containers provide a hassle free, simple, and reliable solution to traditional packaging. Supports temperatures at 2°C to 8°C (35°F to 46°F) for up to 13 days without human intervention. Pegasus ULD is an Advanced Passive Aircraft Certified unit load device eliminating the need of extra handling and equipment (no PMC & Straps required), locks into place so it becomes part of the aircraft, making handling & logistics a breeze. Available for single US or Euro size pallet of Pharmaceutical shipments via American Airlines global network of Stations.

<table>
<thead>
<tr>
<th>Features</th>
<th>Available Units For Lease</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Temperature Set Points (Range)</strong></td>
<td>+2° to +8° C</td>
</tr>
<tr>
<td><strong>Temperature Control Tolerances</strong></td>
<td>300+ hours of +2° to +8° C no charging needed</td>
</tr>
<tr>
<td><strong>Ambient Operating Temperature Ranges</strong></td>
<td>-20° to +60° C</td>
</tr>
<tr>
<td><strong>Data Logging</strong></td>
<td>Yes – via cloud platform, real time, no USB</td>
</tr>
<tr>
<td><strong>Insulation</strong></td>
<td>Composite, VIP and Phase Change Material</td>
</tr>
<tr>
<td><strong>Cargo Compartment Volume (Payload)</strong></td>
<td>1.75 m³ (63 ft³)</td>
</tr>
<tr>
<td><strong>Main Cargo Area Dimension (L x W x H)</strong></td>
<td>124 x 115 x 123 cm</td>
</tr>
<tr>
<td></td>
<td>49 x 45.5 x 48.7 in</td>
</tr>
<tr>
<td><strong>Max Time to Full Charge</strong></td>
<td>N/A – no charging needed</td>
</tr>
<tr>
<td><strong>Operating Battery Time Depending on ambient temperature</strong></td>
<td>300+ hours – no charging needed</td>
</tr>
<tr>
<td><strong>Tare Weight</strong></td>
<td>1358 lb / 616 kg</td>
</tr>
<tr>
<td><strong>Max Gross Weight</strong></td>
<td>3500 lb / 1588 kg</td>
</tr>
<tr>
<td><strong>Max Net Weight</strong></td>
<td>2142 lb / 972 kg</td>
</tr>
<tr>
<td><strong>Forkliftable</strong></td>
<td>Yes – ULD operating design</td>
</tr>
<tr>
<td><strong>Stations in Network</strong></td>
<td>10+</td>
</tr>
<tr>
<td><strong>Leasing Available</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>
Approved Tracking Devices

It’s natural to want to monitor your precious cargo from takeoff to landing, so we allow different types of trackers to accompany shipments on our aircraft. These tracking devices have been approved for carriage.
Worldwide Cities Served

Our global service connects temperature-sensitive medicines and treatments to more than 150 cities and 46 countries around the world. At key locations throughout the American Airlines network, we provide enhanced services with dedicated Controlled Room Temperature (CRT), Extended Room Temperature (ERT), Refrigerated (COL) and Frozen (FRO) facilities. These facilities are specifically designed to support passive packaging.

Key
- Active
- Passive
- Freezer
- CEIV
- 2-8
- GDP
- 15-25
- Uncontrolled Ambient
- Trucking

Asia/Pacific
- Auckland (AKL)
- Beijing (PEK)
- Delhi (DEL)
- Hong Kong (HKG)
- Incheon (ICN)
- Shanghai (PVG)
- Sydney (SYD)
- Tokyo (HND)
- Tokyo (NRT)

Caribbean/Latin America
- Aruba (AUA)
- Bridgetown (BWI)
- Bogota (BOG)
- Guayaquil (GYE)
- Kingston (KIN)
- Lima (LIM)
- Managua (MGA)
- Curacao (CUR)
- Grenada (GND)
- Guatemala City (GUA)

Guatemala City (GUA)

Europe
- Aberdeen (ABZ)
- Amsterdam (AMS)
- Athens (ATH)
- Barcelona (BCN)
- Berlin (BER)
- Birmingham (BHX)
- Bordeaux (BOD)
- Budapest (BUD)
- Cork (ORK)
- Doha (DOH)
- Dubai (DUB)
- Dusseldorf (DUS)
- East Midlands (EMA)
- Edinburgh (EDN)
- Frankfurt (FRA)
- Glasgow (GLA)
- Hamburg (HAM)
- Lille (LIL)
- Lisbon (LIS)
- London (LHR)
- Lyon (LYS)
- Madrid (MAD)
- Marseille (MRS)
- Milan (MXP)
- Munich (MUC)
- Nantes (NTE)
- Nice (NCE)
- Nuremberg (NUE)
- Paris (CDG)
- Paris (CDG)
- Paris (PRG)
- Rome (FCO)
- Shannon (SNN)
- Shannon (SN)
- Stockholm (SBB)
- Tel Aviv (TLV)
- Toulouse (TLS)
- Venice (VCE)
- Zurich (ZRH)

North America
- Albuquerque (ABQ)
- Anchorage (ANC)
- Atlanta (ATL)
- Baltimore (BWI)
- Boston (BOS)
- Cancun (CUN)
- Charlotte (CLT)
- Chicago (ORD)
- Cleveland (CLE)
- Dallas/Fort Worth (DFW)
- Denver (DEN)
- Fort Lauderdale (FLL)
- Fort Myers (RSW)
- Honolulu (HNL)
- Jacksonville (JAX)
- Kona (KOA)
- Las Vegas (LAS)
- Los Angeles (LAX)
- Mexico City (MEX)
- Miami (MIA)
- Montreal/Dorval (YUL)
- New Orleans (MSY)
- New York City (JFK)
- Newark (EWR)
- Omaha (OMA)
- Orlando (ORT)
- Orlando (MCO)
- Philadelphia (PHL)
- Phoenix (PHX)
- Portland (PDX)
- Raleigh/Durham (RDU)
- Sacramento (SMF)
- Salt Lake City (SLC)
- San Diego (SAN)
- San Francisco (SFO)
- San Jose (SJC)
- San Juan (STJ)
- Santa Ana (SNA)
- Seattle (SEA)
- St. Louis (STL)
- Tampa (TPA)
- Toronto (YYZ)
- Tucson (TUS)
- Vancouver (YVR)
- Washington, D.C. (IAD)
- Washington, D.C. (DCA)
- West Palm Beach (PBI)

Locations are subject to change based on flight schedule enhancements. Additional Expedite TC handling may be available upon request.