

**Your Packages.  
Ready for Anything.**

UPS Professional Services



# Introducing the Temperature-Humidity Testing Chamber

Protecting the contents of your packages during transit ensures your image of quality.

The UPS Professional Services Package Design and Testing Lab can test and design your packaging for optimal shipping results.

And now, with the introduction of our new Temperature-Humidity Chamber, you can be sure that your package and its contents are ready for any climatic conditions they may be subjected to while in transit.

# Why is Temperature and Humidity Testing Important?

## Pharmaceuticals

- become unsafe or ineffective if temperatures or humidity levels exceed allowable ranges.

## Food

- will spoil if exposed to improper temperatures or humidity levels.

## Corrugated

- can lose half its original compressive resistance in a 95% relative humidity climate; in arid, hot climates it becomes brittle and susceptible to tearing.

## Plastic

- becomes brittle in low temperatures.

# Temperature-Humidity Chamber Statistics

- Temperature range of -20° to 185° F.
- Humidity range of 20% to 95%.
- Walk-in-size to accommodate larger packages.
- Sealed chamber.
- Computer-controlled for stable and verifiable results.



# Why Choose The UPS Package Lab?

This facility is International Safe Transit Association (ISTA) certified. Temperature and humidity testing is compliant with ASTM D-4169 and ISTA Test Procedures Series 2, 3, 5, and 7.

The Temperature-Humidity Chamber can simulate a variety of environments.

- Frozen or winter ambient, tropical humid, desert dry, summer ambient, or cycling of various conditions.

Because all package testing capabilities are located in one facility, we can acclimate packages in the Chamber to specific atmospheric conditions, then immediately perform shock, vibration, and compression tests.

# Additional Thermal Packaging Services

## Thermal package design

- Custom design thermal packaging, taking into consideration the product's specifications, anticipated ambient transit conditions, and expected transit times.

## Thermal package testing

- Validation of thermal performance for proposed or existing packaging.

## Temperature monitoring in transit

- Using monitors, track internal and ambient temperatures during actual test shipments.

**Call 1-877-877-7229**  
**Visit [www.ups-psi.com](http://www.ups-psi.com)**  
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**Thank You.**