

KoolTemp™ GTS-89 Shipping System

Pre-Qualified Cold Chain Solutions

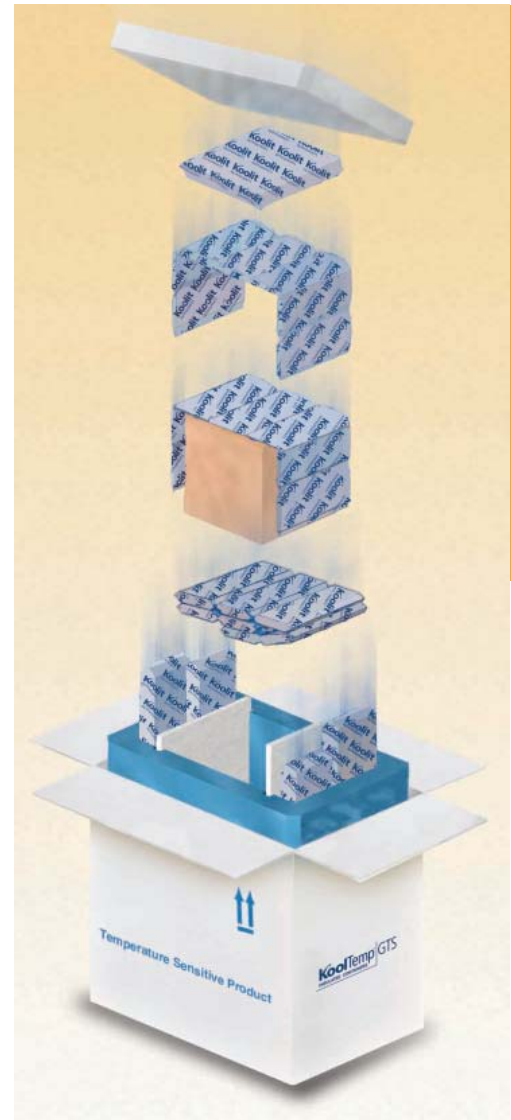
Product Features

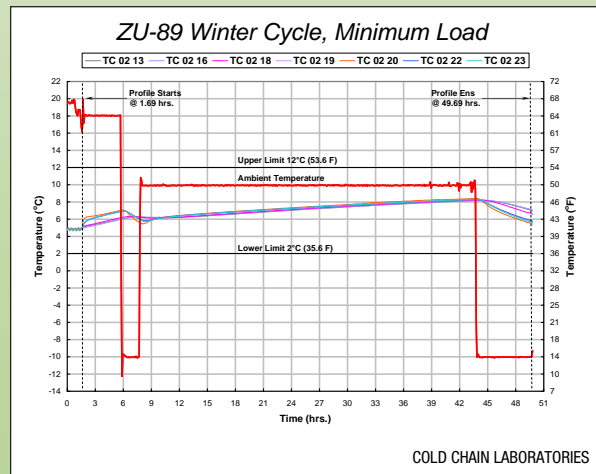
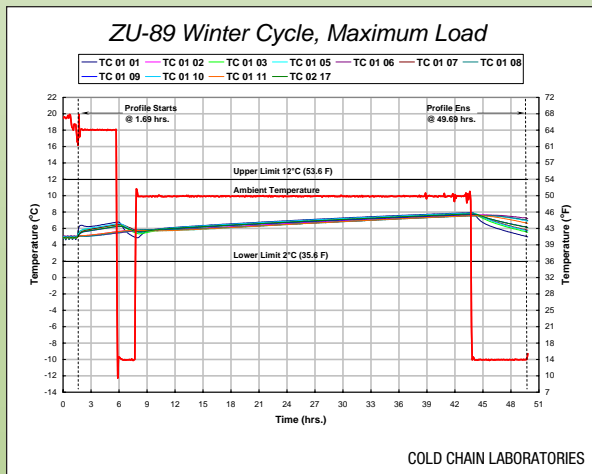
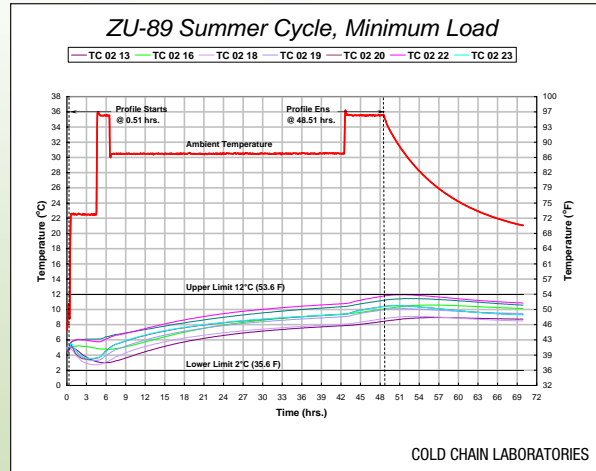
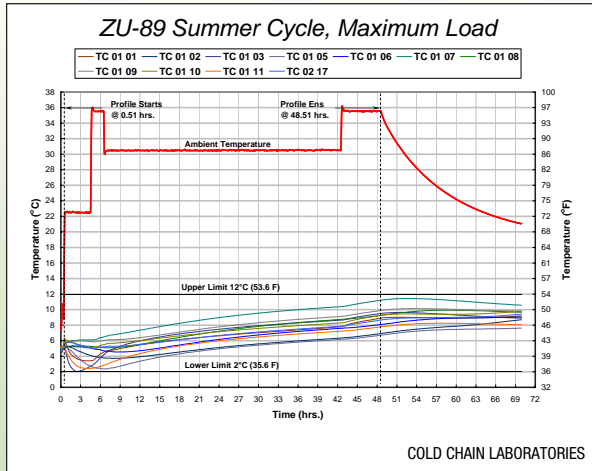
- Seasonal – pre-qualification study performed for 48 hours, under winter and summer conditions, for minimum and maximum loads
- Easy packout – a simple process using our Koolit® refrigerants
- Lightweight – at 26 lb.
- Large payload area – 8.5" x 8.5" x 8.5"
- Thoroughly tested – engineered thermal pre-qualification tested to cGMP standards (Full pre-qualification report is available separately.)
- High R-value – custom polyurethane formulation for tight temperature requirements
- Environmentally friendly – non ozone-depleting formulation
- In stock – ready for immediate shipment

The GTS-89 shipping system provides 48 hours of thermal protection seasonally for temperature-sensitive pharmaceutical and biotech products, including blood shipments. Pre-qualification testing has been conducted to ISTA 5B (thermal test) profiles at minimum and maximum loads, under both summer and winter conditions.

- Pre-qualified for 48 hours under winter conditions at 2°C to 9°C and summer at 2°C to 12°C.
- Pre-qualified for 48 hours under summer conditions for temperatures below -20°C using dry ice.

For demanding temperature requirements, the GTS-89 provides 2" thick walls of high-performance, high R-value rigid molded polyurethane foam insulation. The one-piece molded containers are protected in an outer corrugate box. Koolit® saddlebags wrap around the payload and refrigerant bricks are inserted into the side slots and on top of the payload (see illustration for details). The GTS-89 design allows for easy packout, reuse, replacement of corrugate, and recycling of individual parts. The recyclable components of these containers contain a non ozone-depleting formulation (no CFCs or HCFCs), and are EPA compliant. The GTS-89 system is available for immediate shipment.





Time-temperature graphs illustrate performance of the KoolTemp GTS-89 under varied testing conditions. Ambient temperatures are displayed with red lines, and temperature boundaries are displayed with black lines. Internal payload temperatures measured by thermocouples during testing are shown with multiple colored lines.

KoolTemp GTS-89 Specifications

Part No.	Components	Quantity per System	Dimensions (LxWxH)	Component Weights
ZU-89-2-INS1.5	EPS Container Lid	1	20.5" x 13.5" x 2" OD	0.45 lb.
305F	Koolit® Bricks	6	9" x 4" x 1.5" OD	11.34 lb.
542SB7	7-Pouch Saddlebags	3	25.5" x 8" x .5" OD	7.89 lb.
ZU89PB-C	Payload RSC E-Flute Box	1	8.5" x 8.5" x 8.5" ID	—
ZU89-.5-I1.5	EPS Pads	2	14" x 9.625" x .5" ID	0.10 lb.
ZU89-2-M1	Rigid Molded Container Bottom	1	16.125" x 9.125" x 14.25" ID	3.75 lb.
ZU89-20-C	Outer Corrugated Container	1	20.969" x 13.969" x 19.688" OD	2.00 lb.
Total Actual Shipping Weight (without product payload)				25.53 lb.

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