

# TempTrust™ ePUR Solutions

## The Next Generation of Qualified Packaging

### Surpass industry standards & fast track your packaging qualification

Start saving today. Reduce total delivered cost with new qualified ePUR solutions from Mesa Labs using the new ePUR coolers.

The next generation of PUR insulation, ePUR features a 30% higher R value and 34% reduction in material density when compared to traditional PUR.

When assembled with the TempTrust line of PCMs, this translates into qualified solutions that have multiple benefits:

- Achieve longer durations without changing the outer dimensions or the internal payload capacity.
- Maintain the duration and reduce the outer dimensions of your shipper.
- Decrease overall solution weight by reducing wall thickness or amount of needed refrigerant
- Decrease shipping costs by as much as 50% over leading PUR solutions on the market today



### 34% lighter than standard PUR-based solutions



A 34% reduction in free rise, material density compared to standard PURs means that the cubic foot "yield-per-pound" of the foam is less, which increases the rate of expansion and lowers the weight of the shipper.

When comparing two containers that have the same Molded Container Density, the ePUR container is approximately 34% lighter.

### A lower cost solution



The higher R value means the ePUR insulation is working harder to prevent heat conduction. This means that you can either use fewer refrigerants (a weight and cost savings) or thinner walls to create the same hold times.

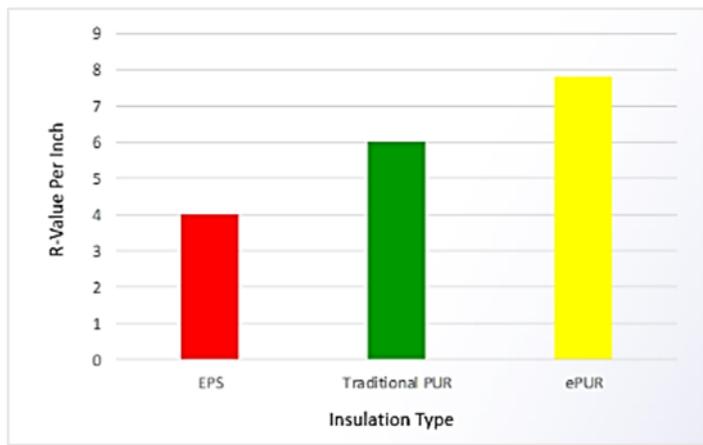
Combine this revolutionary insulator with Mesa's proven data model, using 10 years and thousands of data points, to enable a qualified solution that exceeds all industry standards, reduces failures and cuts total-cost-of-ownership.

### A Green Solution



ePUR does not contribute to Ozone depletion and has a global warming potential factor of 1 on GWP scale of 1 to 150. This is the minimal amount that can be given to a manufacturing process of this type. The solution is also recyclable and reusable.

## Higher R Value means lower convection rates



Low heat transfer means ePUR has a 30% higher R Value per inch than traditional PUR. It also creates a uniform thermal barrier that serves as an air flow retardant that minimizes convection. This makes it ideal as both a packaging material and an insulator.

## Fully qualified with all documentation included

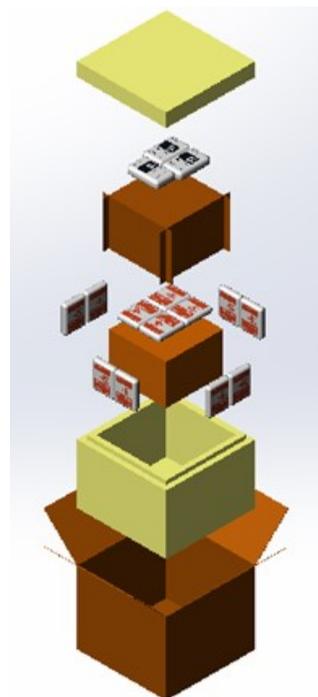
TempTrust qualified ePUR solutions are tested and documented against specific temperature profiles that take into account your transportation processes and geographical region.

Every solution includes Qualification Reports (IQ and OQ) with SOPs to guide customers on using exactly the right refrigerants to reduce container weight, optimize gel pack conditioning, & reduce pack-out failures. Seasonal Performance Qualifications available with minimum quantities.

## ePUR Shipper Specifications

TempTrust ePUR solutions are available today in 4 parcel sizes and 2 pallet sizes (Full Pallet and Narrow Body Pallet), and are qualified for multiple seasons and temperature ranges.

Contact us for more detailed specifications and pack-out details.



## TempTrust ePUR solutions from Mesa Labs. Trusted leader in cold chain management.



Since 2002 Infitrak, now Mesa Labs, has designed and developed comprehensive cold-chain solutions that protect a product's integrity and ensures patient and consumer safety. Mesa Labs is the only company with all three areas of compliance-based, temperature controlled services and products: packaging, consulting, and real-time monitoring, This translates into a team that is with you all the way from raw materials to end user. For more information, visit us at [www.temptrust.mesalabs.com](http://www.temptrust.mesalabs.com).

\*ePUR is own by and is a trademark of the Jarden Life Science Corporation.