

# Case Study Report



## Project Identification

Customer: UPS-SCS (Pharmaceutical Logistic)  
Location: Louisville, Kentucky

## Design Specifications

Facility Warehouse 297,000' x 32' High  
Winter Operation 70° – 0° Summer Operation – 70° - 95°



## Project Challenge:

UPS built a facility to store and distribute pharmaceutical products that have rigorous temperature requirements generated and upheld by the FDA. The FDA requires no more than a +/- 2° F temperature difference anywhere in the facility; redundancy is also required as products are rendered unusable if temperatures exceed 78°.

## Equipment Solution:

Air Energy Systems designed a system of (16) Rack Units distributing heated and cooled air from (16) 25 ton combination Roof Top Units. Although the heat load was achieved with (12) 25 ton Units, the redundancy was required per UPS to ensure that the temperature continually remained within the FDA guidelines.



## Results of Rack System:

UPS-SCS has met FDA temperature regulations since the system was installed. Not only has UPS met federal requirements, they also experienced over **\$75,000** in annual utility costs.

