

Case Study Report



Project Identification

Customer: eBay – (3) Facilities
Location: Louisville, Kentucky

Design Specifications

Facility Warehouse 1,463,000' x 40' High
Winter Operation 70° – 0° Summer – 78°-93°



Project Challenge:

eBay has three large facilities in the Louisville Industrial Area. These facilities are heated to 70° in the winter and air conditioned during the summer season. eBay's HVAC system was a combination of Cambridge Makeup Air Units and Roof Top Units which lead to high utility costs and varying temperatures throughout their facilities. eBay was looking for a system that would lead to consistent temperatures and total system control.

Equipment Solution:

Air Energy Systems designed a system to utilize combination Roof Top units that are duct into (44) Rack Units, the whole system is operated by a Web Comfort Energy Management System. During the summer the RTUs supply cooling into the Racks, which then evenly distributes the cool air all through the facility. During the winter the Rack will perform in the same manor but instead deliver the heat in the space. The EMS allows eBay's plant manager control all 3 facilities from a central location. This system has allowed eBay to get rid of or turn off all of their costly Cambridge MAUs.



Results of Rack System:

eBay experienced Annual Electrical Savings totaling **\$50,334**:

- Electrical – 503,340 kW at \$.10/kW

