

Case Study Report



Project Identification

Customer: Knipper
Location: Charlestown, Indiana

Design Specifications

Facility Warehouse 258,500' x 36' High
Winter Operation 70° – 0° Summer Operation 72° – 98°



Project Challenge:

Knipper built a new 258,000' warehouse in Charlestown, IN that required compliance with DEA and FDA regulations for storing pharmaceutical products. Temperatures could not fluctuate more than +/- 2° in the facility in order to protect product integrity. Non-compliance could result in costing company millions in unusable pharmaceutical products.

Equipment Solution:

Air Energy provided an energy efficient solution of (14) ER-242 in combination with (14) 10 Ton Roof Top Units. The (14) Racks distribute the heat evenly throughout the facility to maintain 70° in the winter months. During summer operation, the Racks provide 3 Air-Turnovers an hour, delivering consistent temperatures from floor to ceiling.



Results of Rack System:

Knipper experienced Annual Savings totaling **\$72,575:**

- Electrical – 393,345 kWh at \$.10/kWh
- Natural Gas – 33,229 therms at \$.80/therm

By installing The Rack units, Knipper saved over 46% in utility costs.