

# Case Study Report



## Project Identification

Customer: Ryder Integrated Logistics  
Location: Avon, Indiana



## Design Specifications

Facility Warehouse 708,000' x 36' High  
Winter Operation 70° – 0°

### Project Challenge:

Ryder Integrated Logistics constructed a new distribution warehouse in Avon to handle their ink and printer products. Ryder wanted a complete heating system that would maintain 70° in the winter, provide uniform temperatures throughout the facility and could offer ventilation in the summer.

### Equipment Solution:

Air Energy provided (6) ER-242-800s + (4) Rupp RAM-M-30 Makeup Air Units. The (4) MAUs provide outside air to meet ASHRAE 62.1 fresh air code during occupied operation and The Racks provide energy efficient conditioning during the unoccupied hours. **The Racks combined with intake louvers and exhaust fans provide 1.5 Air Turnovers during the summer to reduce high temperatures, eliminating the need for a costly Air Conditioning system.**

### Results of Rack System:

Ryder experienced Annual Savings totaling **\$158,061**:

- Electrical – 61,275 kWh at \$.10/kWh
- Natural Gas – 151,934 therms at \$.80/therm

Ryder received verified Vectren Rebate:

- Vectren – Natural Gas: **\$100,000**

