

Case Study Report



Project Identification

Customer: Ryder Logistics
Location: Greenwood, Indiana

Design Specifications

Facility Warehouse 400,000' x 36' High
Winter Operation 70° – 0°



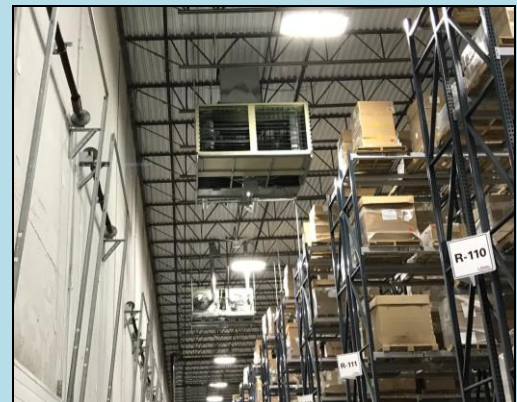
Project Challenge:

Ryder Logistics purchased a facility in Greenwood, IN that was being heated to 50°-0° by (3) 46,000 cfm Recirculating Makeup Air Units. Ryder wanted to upgrade their HVAC system to maintain 70°, provide summer ventilation and reduce both kWh and therm consumption.

Equipment Solution:

Air Energy Systems equipped Ryder with (9) ER-242-800s + (4) Intake Hoods to meet ASHRAE 62.1. The Rack Units were able to heat the building the additional 20° to 70°-0° and provide 1+ Air Turnover per hour to temper the facility in the summer.

Installing the energy efficient Rack Units resulted in a 67% reduction in kWh usage and a 33% savings in natural gas.



Financial Impact of Rack System:

Ryder Logistics experienced Annual Savings totaling **\$74,337**:

- Electrical –303,883 kWh at \$.10/kWh
- Natural Gas – 50,056 therms at \$.80/therm

Ryder Logistics received verified Vectren Rebate:

- Vectren – Natural Gas: **\$43,949**