

# Case Study Report



## Project Identification

Customer: Gerdt  
Location: Greenfield, Indiana



## Design Specifications

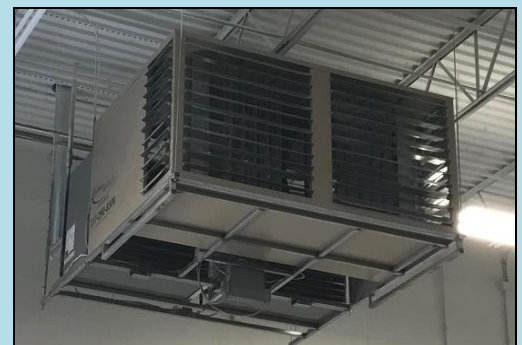
Facility Warehouse 132,000' x 32' High  
Winter Operation - 72° - 0°

### Project Challenge:

Gerdt built a storage facility in Greenfield, IN to house their large inventory of home furniture. Gerdt wanted their new warehouse to maintain 72°-0° in the winter and to provide 2 air turnovers per hour in the summer for ventilation.

### Equipment Solution:

Air Energy designed a heating and ventilation system using (4) ER-242-800s + (2) 24" x 30" Intake Hoods. The (4) Rack Units heat the warehouse to a constant 72° from ceiling to floor and provide 2 air turnovers per hour. The Intake Hoods bring in 7,920 cfm/hour to meet ASHRAE 62.1 air quality standard. *The Rack Units deliver tempered air year throughout the year to ensure maximum tenant comfort in Gerdt's warehouse.*



### Results of Rack System:

Gerdt experienced Annual Savings totaling **\$21,520**:

- Electrical – 52,285 kWh at \$.10/kWh
- Natural Gas – 20,360 therms at \$.80/therm

Gerdt received verified Vectren Rebate:

- Vectren – Natural Gas: **\$15,850**