

# Case Study Report



## Project Identification

Customer: D&D Brakes  
Location: McCordsville, Indiana

## Design Specifications

Facility Warehouse 128,000' x 36' High  
Winter Operation 65° – 0°



## Project Challenge:

The facility was being heated by (8) Reznor 300,000 btu unit heaters and (1) Applied Air Floor Furnace that could never meet 65°-0°. D&D also heated with Propane which was exceeding \$3.50/gallon and they still were cold in the facility. D&D decided to convert their facility to Vectren natural gas and to upgrade their heating system to achieve 65°.

## Equipment Solution:

Air Energy Systems designed a heating and summer ventilation systems consisting of (4) ER-242-800 Rack units. Three of these units are equipped with sidewall fresh air intake kits to supply 0.06 cfm/sf to meet ASHRAE 62.1 indoor air quality.



## Results of Rack System:

D&D Brakes experienced Annual Savings totaling **\$33,275:**

- Electrical – 37,445 kW at \$.10/kW
- Natural Gas – 36,912 therms at \$.80/therm

D&D Brakes heating operation cost is \$ .15/sf

D&D Brakes received verified Vectren Gas Rebate:

- Vectren – Natural Gas– **\$24,296**

