

# Case Study Report



## Project Identification

Customer: Bensussen Deutsch & Associates (BDA)  
Location: Plainfield, Indiana

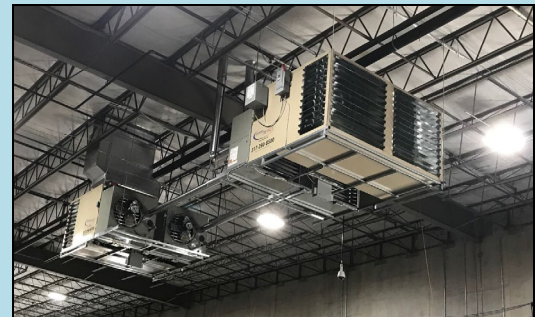


## Design Specifications

Facility Warehouse 250,000' x 36' High  
Winter Operation 70° – 0°

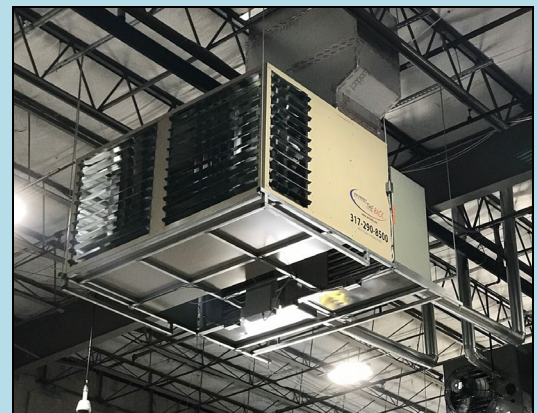
### Project Challenge:

BDA moved into an existing building that was heated by (27) 61.7% efficient Unit Heaters. This system could only heat the facility to 55-0 and did not meet code. BDA wanted a new system that could maintain 70-0 in the winter, meet ASHRAE 62.1 fresh air requirement and provide summer ventilation.



### Equipment Solution:

Air Energy provided a heating and ventilation system consisting of (6) ER-242-800s, (4) Intake Hoods and (3) Exhaust fans. The (6) Racks heat the facility to 70-0 during winter operation, and interlock with the exhaust fans in the summer to provide 1 air change an hour. **By upgrading their HVAC system to (6) ER-242-800s, BDA reduced utility costs by over 45%.**



### Results of Rack System:

BDA experienced Annual Savings totaling **\$87,673**:

- Electrical – 176,443 kWh at \$.10/kWh
- Natural Gas – 87,536 therms at \$.80/therm

BDA received verified Vectren Rebate:

- Vectren – Natural Gas: **\$70,029**