

# Case Study Report



## Project Identification

Customer: STRYKER – FedEx Supply Chain  
Location: Plainfield, Indiana

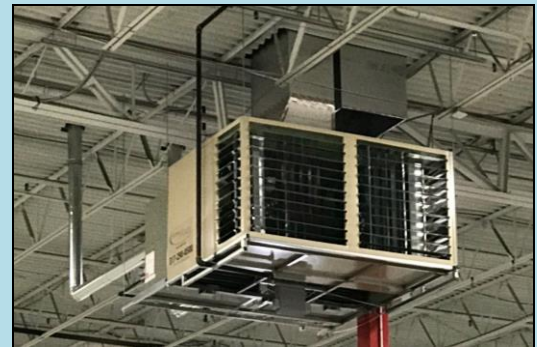


## Design Specifications

Facility Warehouse 585,500' x 36' High  
Winter Operation 70° – 0° Summer Operation 70° – 94°

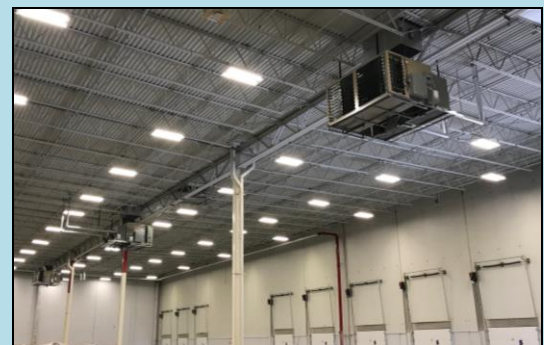
### Project Challenge:

Stryker purchased an existing warehouse facility in Plainfield, that is run by FedEx Supply Chain, to house and distribute their medical products. Due to the strict FDA regulations Stryker's HVAC system had to maintain between 68° - 70° in summer and winter, keep humidity levels below 40% and operate on energy management system.



### Equipment Solution:

Air Energy provided (14) ER-242-800s + (2) ER-142-400s to heat the warehouse in the winter and to distribute cooling in the summer. Stryker installed temperature and humidity sensors from ceiling to floor throughout the facility to monitor climate levels. **The Rack System's energy efficiency qualified STRYKER for a Vectren natural gas Incentive amount of over \$100,000.**



### Results of Rack System:

Stryker experienced Annual Savings totaling **\$154,430**:

- Electrical – 530,500 kWh at \$.10/kWh
- Natural Gas – 126,787 therms at \$.80/therm

Stryker received verified Vectren Rebate:

- Vectren – Natural Gas: **\$101,430**