

# Case Study Report



## Project Identification

Customer: Indiana University Health  
Location: Plainfield, Indiana

## Design Specifications

Facility Warehouse 240,000' x 36' High  
Winter Operation 70° – 0°

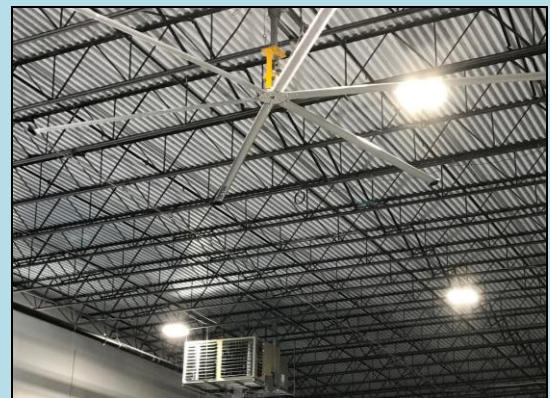


## Project Challenge:

IU Health built a 240,000' facility in Plainfield, IN for storage of medical supplies and equipment. The facility needed to meet regulations specified by the DEA and FDA. The tenant required an energy efficient HVAC system that would heat the facility in the winter and provide ventilation in the summer.

## Equipment Solution:

Air Energy designed and installed an HVAC system consisting of (2) ER-242-800, (2) Rupp Ram 25 MAUs, (4) 24' Big Ass Fans, and (2) Exhaust fans paired with (2) Filtered Intake Louvers. The Ram 25s only run during occupied hours providing fresh air to meet ASHRAE 62.1. The Racks carry the heating load during unoccupied operation... **drastically reducing therm usage**. The Fans + Filtered Louver provide the summer ventilation.



## Results of Rack System:

IU Health experienced Annual Savings totaling **\$57,183**:

- Electrical – 117,630 kW at \$.10/kW
- Natural Gas – 56,775 therms at \$.80/therm

IU Health received verified Vectren Rebate:

- Vectren – Natural Gas: **\$45,420**

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