

# Case Study Report



## Project Identification

Customer: Plainfield Logistics Center Bldg. 4

Location: Plainfield, Indiana

## Design Specifications

Facility Warehouse 253,500' x 36' High

Winter Operation 70° – 0°



## Project Challenge:

Compass Commercial Construction built a new distribution warehouse designed to house multiple tenants. In order to accommodate these tenants, Compass needed a flexible HVAC system that could heat to 70°-0° in the winter, provide ventilation in the summer and adjust to multiple tenants no matter how the building was sub-divided.

## Equipment Solution:

Air Energy provided (2) ER-242-800s, (4) ER-142-400s and (6) 24" x 36" intake hoods. By having (6) intake hoods, Compass can meet ASHRAE 62.1 no matter how many tenants are in the building. *The combination of The Rack Units and multiple intake hoods offers building owners the most adaptable and energy efficient HVAC system for Big Box Warehousing, saving \$.22/sf in utility costs over the ASHRAE standard.*



## Results of Rack System:

PLC #4 experienced Annual Savings totaling \$55,630:

- Electrical – 124,165 kWh at \$.10/kWh
- Natural Gas – 54,020 therms at \$.80/therm

PLC #4 received verified Vectren Rebate:

- Vectren – Natural Gas: **\$43,215**

4790 West 73<sup>rd</sup> Street | Indianapolis, Indiana 46268  
Phone: 317-290-8500 | [www.aesrack.com](http://www.aesrack.com)

Air Energy Systems, Inc.  
Bill Maher  
[bmaher@aesrack.com](mailto:bmaher@aesrack.com)