

# Case Study Report



## Project Identification

Customer: Plainfield Logistics Center – Bldg. #5  
Location: Plainfield, Indiana

## Design Specifications

Facility Warehouse 187,200' 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 (6) 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 \$.23/sf in utility costs over the ASHRAE standard.*



## Results of Rack System:

PLC #5 experienced Annual Savings totaling **\$42,882:**

- Electrical – 68,620 kWh at \$.10/kWh
- Natural Gas – 45,025 therms at \$.80/therm

PLC #5 received verified Vectren Rebate:

- Vectren – Natural Gas: **\$36,020**

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