

Case Study Report



Project Identification

Customer: Metro Air Building #9
Location: Plainfield, Indiana

Design Specifications

Facility Warehouse 501,280' x 36' High
Winter Operation 70° – 0°



Project Challenge:

Metro Air Building #9 is a 501,000' speculative distribution warehouse in Plainfield, IN. The building developer requested the facility to maintain 70°-0° in winter months, able to accommodate 1 to 3 separate tenants and to use minimal utilities while the building is unoccupied.

Equipment Solution:

Air Energy provided (10) ER-242-800s + (6) 24" x 36" Intake Hoods to meet ASHRAE 62.1 fresh air code. The Intake Hoods remain closed during the unoccupied operation eliminating the need to heat outside air. Installing The Rack Units + Hoods with occupied/unoccupied operation setting, **Building 9 saved utility costs by \$.22/sf**



Results of Rack System:

Metro Air Building 9 experienced Annual Savings totaling **\$86,192**:

- Electrical – 98,025 kWh at \$.10/kWh
- Natural Gas – 101,853 therms at \$.75/therm

Carbon Footprint Reduction: 657 tons of CO2 emissions annually

Metro Air Building 9 received verified Vectren Rebate:

- Vectren – Natural Gas: **\$100,000**



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