

Case Study Report



Project Identification

Customer: MD Logistics
Location: Indianapolis, Indiana

Design Specifications

Facility Warehouse 188,000' x 36' High
Winter Operation 65° – 0°

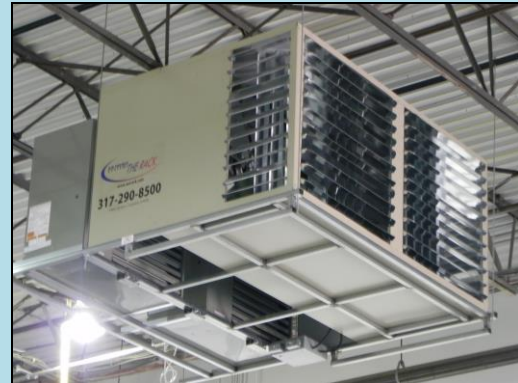


Project Challenge:

MD Logistics were being heated by (2) 80/20 Weather Rite Direct Fired Recirculation Makeup Air Units. They were experiencing extremely high utility bills and needed to update their equipment. MD Logistics requested summer ventilation to be provided in the summer, rather than putting in a cooling system.

Equipment Solution:

Air Energy Systems designed a heating system that consisted of (5) Rack Units with (2) Intake hoods to meet the Indoor Air Quality regulations. This system is operated by an ECCS energy management system that utilizes MD Logistics unoccupied operation hours to reduce utility usage. During summer operation the Rack Units bring in outside air at night to cool space down and continually rotate the air in the space.



Results of Rack System:

MD Logistics experienced Annual Savings totaling **\$62,674**:

- Electrical – 180,500 kW at \$.10/kW
- Natural Gas – 54,687 therms at \$.80/therm

MD Logistics saved **40%** in utilities by installing Rack Units

MD Logistics received verified Vectren Gas Rebate:

- Vectren – Natural Gas– **\$43,750**



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