

Case Study Report



Project Identification

Customer: ARCO
Location: Jeffersonville, Indiana

Design Specifications

Facility Warehouse 458,640' x 40' High
Winter Operation 70° – 0°

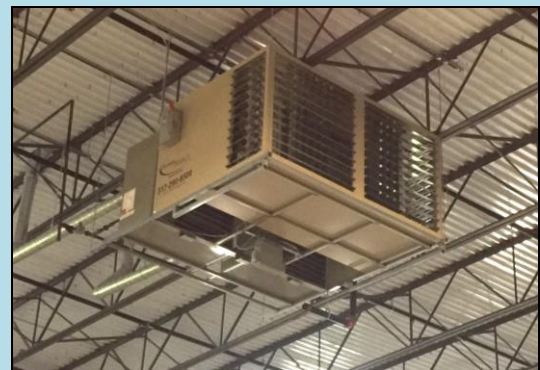


Project Challenge:

ARCO was looking for an energy efficient HVAC system to heat and ventilate their new Distribution Warehouse. ARCO wanted a system that can maintain 70°-0° in the winter and provide 1 Air Change an hour in the summer.

Equipment Solution:

Air Energy equipped ARCO with (4) ER-242-800 and (2) Ram 25 for their heating needs and (4) Exhaust Fans and Intake Louvers for summer ventilation. The Rupp Ram 25s satisfy ASHRAE 62.1 outside air requirements. This system utilizes ARCO's unoccupied hours to eliminate outside air and the heat load is carried by the (4) Double Rack units. The Racks + Ram MAUs combination provides the most energy efficient HVAC solution for warehouse needs, *reducing utility operating costs by \$.15/sqft*



Results of Rack System:

ARCO experienced Annual Savings totaling **\$72,000**:

- Electrical – 308,050 kW at \$.10/kW
- Natural Gas – 47,438 therms at \$.80/therm

ARCO received a verified Vectren Gas Incentive:

- Vectren – Natural Gas – **\$41,188**

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