

Case Study Report



Project Identification

Customer: Würth
Location: Greenwood, Indiana

Design Specifications

Facility Warehouse 200,000' x 36' High
Winter Operation 68° – 0°



Project Challenge:

Würth purchased a new warehouse facility in Greenwood, IN to distribute their fastener products to manufacturers across the Midwest. Würth wanted their HVAC system to maintain 68°-0° in the winter, provide ½ Air Turnover in the summer for ventilation and to meet the company's environmental policy.

Equipment Solution:

Air Energy supplied (2) ER-242-800s + (1) Rupp Ram 25 Makeup Air Unit. The MAU runs during occupied operation to meet ASHRAE 62.1 and cycles off during unoccupied operation. The Racks carry the heat-load during these hours which amounts to savings of \$.20/sqft in natural gas. **Würth's choice to install a combination of (2) Rack Units and (1) Rupp Ram 25 MAU resulted in a 52% savings over ASHRAE's industry standard.**



Financial Impact of Rack System:

Würth experienced Annual Savings totaling **\$53,570**:

- Electrical – 149,490 kWh at \$.10/kWh
- Natural Gas – 40,118 therms at \$.80/therm

Würth's verified Vectren Rebate:

- Vectren – Natural Gas: **\$38,598**

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