

Case Study Report



Project Identification

Customer: IDI – Building #8

Location: Monroe, OH

Design Specifications

Facility Warehouse 992,000' x 40' High

Winter Operation 65° – 0°



Project Challenge:

IDI wanted an energy efficient HVAC system that would heat to 65°- 0° in the winter, provide summer ventilation and operate with an Energy Management System. IDI also needed this system to be able to accommodate 4 separate tenants.

Equipment Solution:

Air Energy designed a system consisting of (8) ER-242-800 and (4) Rupp Ram 25 MAUs. The Ram Units heat the outside air with 92% efficiency during occupied operation to meet ASHRAE 62.1. The (8) Racks aid with heating during occupied hours; during unoccupied hours the Rams turn off and the (8) Racks heat the entire facility.



Results of Rack System:

IDI Bldg 8 experienced Annual Savings totaling **\$129,650**:

- Electrical – 235,500 kW at \$.10/kW
- Natural Gas – 132,377 therms at \$.80/therm

By installing (8) Racks and (4) Ram 25 MAUs, IDI used 40% less therms and 30% less kWh.

