

Case Study Report



Project Identification

Customer: Ingram Micro
Location: Plainfield, Indiana

Design Specifications

Facility Warehouse 284,960' x 36' High
Winter Operation 70° – 0° - Summer - 74° - 95°



Project Challenge:

Ingram Micro purchased a new facility that they wanted to upgrade the existing HVAC system to provide both Heating and Air Conditioning. Ingram Micro wanted to eliminate their high utility costs, to maintain 74° in the summer and to increase temperature to maintain 70°-0° during winter operation.

Equipment Solution:

Air Energy provided (11) ER-242-800s + (1) existing RAM-M-30 with CO2 sensor to meet ASHRAE 62.1. The Racks were able to provide instant relief in the summer, cooling facility to 72°, and deliver heat in the winter, maintaining 70°. By installing The Racks, Ingram Micro was able to reduce number of RTUs from 14 to 11 and eliminated the need for (3) Existing MAUS, **saving \$114,616 in yearly utility costs.**

Financial Results of Rack System:

Ingram Micro experienced Annual Savings totaling **\$114,100:**

- Electrical – 507,343 kWh at \$.10/kWh
- Natural Gas – 70,410 therms at \$.90/therm

Ingram Micro received verified Vectren Rebate:

- Vectren – Natural Gas: **\$63,882**

