

# Case Study Report



## Project Identification

Customer: Sunbeam  
Location: Clayton, Indiana



## Design Specifications

Facility Warehouse 600,000' x 36' High  
Winter Operation 65° – 0°

### Project Challenge:

Sunbeam constructed a new distribution warehouse in Clayton, IN to house their wide array of home appliances. Sunbeam requested that the HVAC system maintain 65° in the winter and to meet ASHRAE 62.1 fresh air requirement.



### Equipment Solution:

Air Energy supplied Sunbeam with (8) ER-242-800s + (4) Intake Hoods. The hoods bring in 9,000 cfm each to meet ASHRAE 62.1. The Racks utilize Sunbeam's unoccupied hours to shut off outside and recirculate the tempered air within the space. By incorporating The Rack Units with the building management system, **Sunbeam will reduce utility (kWh + Gas) costs over 72% annually.**



### Results of Rack System:

Sunbeam experienced Annual Savings totaling **\$100,075:**

- Electrical – 366,345 kWh at \$.10/kWh
- Natural Gas – 79,295 therms at \$.80/therm

Sunbeam received verified Vectren Rebate:

- Vectren – Natural Gas: **\$50,000 (MAX)**