

Case Study Report



Project Identification

Customer: Becton Dickinson
Location: Plainfield, Indiana



Design Specifications

Facility Warehouse 650,000' x 36' High
Winter Operation 70° – 0° Summer Operation 70° – 94°

Project Challenge:

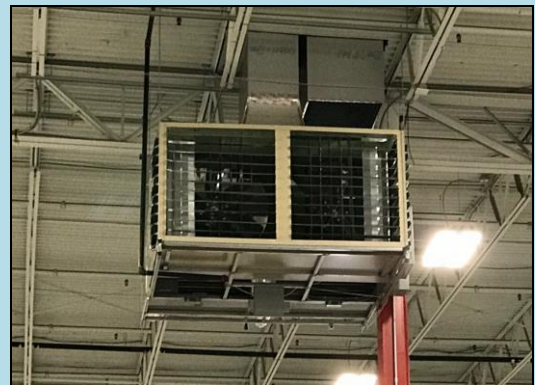
Becton Dickinson purchased an existing 650,000' warehouse in Plainfield, IN to house and distribute their wide array of medical and surgical products. Due to strict FDA regulations, Becton Dickinson is required to maintain +/- 2° of 70° throughout the year. Becton needed a total HVAC system that would heat, cool, provide code ventilation and provide redundancy.



Equipment Solution:

Air Energy provided (24) Rack Units, (10) combination Heating and Cooling, (8) Cooling only and (6) Heating only, to distribute tempered air throughout Becton's distribution warehouse.

Becton Dickinson reduced their utility usage by 50% and received \$56,000 rebate from Duke Energy.



Results of Rack System:

Becton Dickinson experienced Annual Savings totaling **\$173,430**:

- Electrical – 800,000 kWh at \$.10/kWh
- Natural Gas – 116,787 therms at \$.80/therm

Becton Dickinson received verified Duke Energy Rebate:

- Duke – Electric (800,000 kWh @ \$0.07/kWh) : **\$56,000**