

Case Study Report



Project Identification

Customer: Winfield Solutions
Location: Plainfield, Indiana

Design Specifications

Facility Warehouse 385,000' x 36' High
Winter Operation 70° – 0°

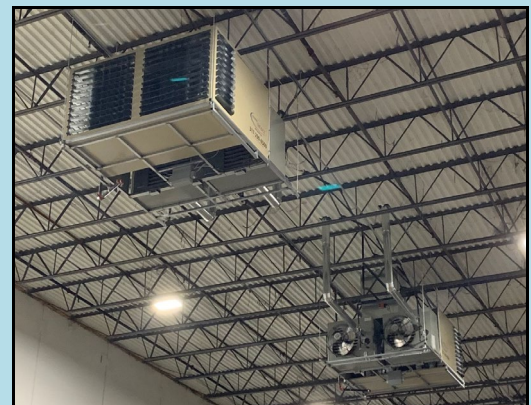


Project Challenge:

Winfield Solutions wanted to update the HVAC system in their 385,000' distribution warehouse in Plainfield, IN. The building was being heated to 55°-0° by (3) Direct Fired Makeup Air Units, Winfield Solutions wanted to increase their building temperature to 70°-0°, reduce energy costs and receive an Energy Rebate.

Equipment Solution:

Air Energy provided (7) ER-242-800s + (3) 24" x 36" Intake Hoods set up on CO2 sensors to meet ASHRAE 62.1. The Racks heated Winfield Solution's facility to 70°-0° and provided 1 Air turnover per hour. **The new HVAC system reduced Winfield Solutions utility costs by \$.19/sqft.**



Results of Rack System:

Winfield Solutions experienced Annual Savings totaling **\$72,320**:

- Electrical – 127,431 kWh at \$.10/kWh
- Natural Gas – 79,438 therms at \$.75/therm

Carbon Footprint Reduction: 552 tons of CO2 emissions annually

Winfield Solutions received verified Vectren Rebate:

- Vectren – Natural Gas: **\$79,438**

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