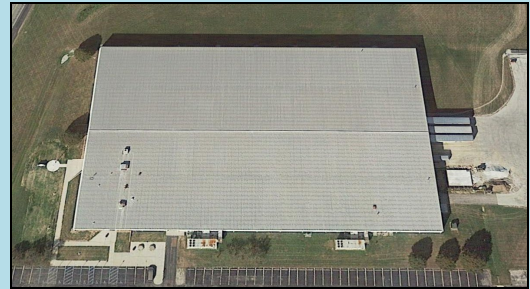


Case Study Report



Project Identification

Customer: Crown Manufacturing
Location: Greencastle, Indiana



Design Specifications

Facility Warehouse 71,000' x 36' High
Winter Operation 65° – 0°

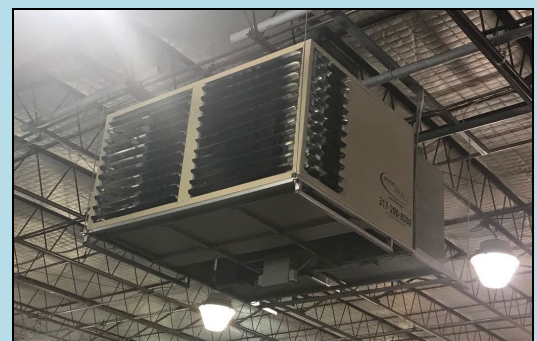
Project Challenge:

Crown Manufacturing added a large welding process to their Greencastle facility. In order for this new welding station to operate correctly, Crown had to replace their existing HVAC system. The new system needed to interlock with the welding booth, heat to 65° and limit utility costs.



Equipment Solution:

Air Energy supplied (2) Rupp RAM-36, (1) CFA-M-33, (1) ER-142-400 and (1) ER-242-800s to provide heat for the building and makeup air for the welding exhaust. Air Energy designed the building HVAC system to utilize Crown's unoccupied operation hours to save them money. The (2) ER-242-800s carry the heatload during unoccupied hours, eliminating the need for outside air. **This design saved Crown \$.41/sqft in utility cost and they received a \$24,251 Rebate check.**



Results of Rack System:

Crown Mfg experienced Annual Savings totaling **\$29,480:**

- Electrical – 52,280 kWh at \$.10/kWh
- Natural Gas – 32,376 therms at \$.80/therm

Crown received verified Vectren Rebate:

- Vectren – Natural Gas: **\$24,251**