

Case Study Report



Project Identification

Customer: Bill Estes - Chrysler, Dodge, Jeep, Ram
Location: Brownsburg, Indiana



Design Specifications

Facility Warehouse 17,640' x 28' High
Winter Operation 70° – 0°

Project Challenge:

Bill Estes built a new Chrysler Dealership and Service Center in Brownsburg, IN. The dealership needed an HVAC system that would maintain 70° in the winter, provide summer ventilation and meet ASHRAE 62.1 (0.75 cfm/sf).

Equipment Solution:

Air Energy Systems supplied (2) ER-242-800s, (1) ER-130-250 and (3) Intake Hoods to heat and ventilate the facility. The (3) Rack Unit's fresh air intake operates off of CO₂ sensors, providing on demand ventilation. By installing The Rack Units, Bill Estes eliminated the need for Makeup Air Units and Radiant heaters resulting in a **savings of over 55% in utility costs.**



Results of Rack System:

Bill Estes experienced Annual Savings totaling **\$9,587:**

- Electrical – 32,675 kWh at \$.10/kWh
- Natural Gas – 7,900 therms at \$.80/therm

Bill Estes received verified Vectren Rebate:

- Vectren – Natural Gas: **\$4,050**

