

# Case Study Report



## Project Identification

Customer: Celadon Trucking – Golden Endeavors  
Location: Seymour, Indiana

## Design Specifications

Facility Warehouse 79,000' x 30' High  
Winter Operation 70° – 0°



## Project Challenge:

Celadon Trucking was looking for an energy efficient heating system for their new facility. Along with heating the space, Celadon wanted summer ventilation to cool the space during the summer months.

## Equipment Solution:

Air Energy designed a system that utilized (4) ER-142-400 + (4) Intake Louvers. The louvers ducted into The Rack Units satisfied ASHRAE 62.1 and provided one air change per hour for summer ventilation. The Rack Units heated the facility to 70° with half the utility cost of industry standard 80/20 MAUs. **The choice to install The Rack Units over Makeup Air Units led to a simple payback under a year and a half for Celadon**



## Results of Rack System:

Celadon experienced Annual Savings totaling **\$15,635**:

- Electrical – 78,420 kW at \$.10/kW
- Natural Gas – 9,741 therms at \$.80/therm

Celadon received verified Vectren Gas Rebate:

- Vectren – Natural Gas– **\$7,306**

