

Case Study Report



Project Identification

Customer: Purity
Location: Lebanon, Indiana

Design Specifications

Facility Warehouse 485,000' x 40' High
Winter Operation 70° – 0°



Project Challenge:

Purity Wholesale Groceries built a new distribution warehouse in Lebanon that needed heating in the winter and summer ventilation. PWG wanted a system that would heat the facility with low operating costs and limited maintenance. This equipment would also be used to cool the space through summer ventilation.

Equipment Solution:

Air Energy Systems designed a heating and ventilation system with a combination of (8) ER-242-800s with (3) Intake Air Hoods and a combination of exhaust fans and intake louvers. This system utilizes energy efficient equipment and the Purity's operating hours to heat at the lowest cost. During Summer Operation Purity opens their Intake Louvers and cools the facility with outside air. **Purity's facility has not exceeded 77° in summer operation without the use of Air Conditioning.**

Results of Rack System:

Purity experienced Annual Savings totaling **\$50,560**:

- Electrical – 300,500 kW at \$.10/kW
- Natural Gas – 25,700 therms at \$.80/therm

Purity received verified Vectren Gas Rebate:

- Vectren – Natural Gas – **\$20,560**

