

Case Study Report



Project Identification

Customer: Tractor Supply
Location: Pendleton, Indiana

Design Specifications

Facility Warehouse 750,000' x 36' High
Winter Operation 70° – 0°



Project Challenge:

Tractor Supply Company wanted to update the HVAC system in their 750,000' distribution warehouse in Pendleton, IN. The building was being heated to 55°-0° by (6) Direct Fired Makeup Air Units, TSC wanted to increase their building temperature to 70°-0°, reduce energy costs and receive an Energy Rebate.

Equipment Solution:

Air Energy provided (13) ER-242-800s and used (2) Existing Makeup Air Units set up on CO2 sensors to meet ASHRAE 62.1 fresh air code. The Racks heated the building to 70° and are incorporated with night setback thermostats to reduce temperature and utility usage while TSC is unoccupied.



Results of Rack System:

Tractor Supply experienced Annual Savings totaling **\$155,205**:

- Electrical – 297,340 kWh at \$.10/kWh
- Natural Gas – 167,295 therms at \$.75/therm

Carbon Footprint Reduction: 1,185 tons of CO2 emissions annually

Tractor Supply received verified Vectren Rebate:

- Vectren – Natural Gas: **\$100,000**

