

# Case Study Report



## Project Identification

Customer : AMMEAL PHARMACEUTICALS  
Location : Glasgow, KY  
Project : Heating and Cooling Facility

## Design Specifications

Facility Warehouse 100,000' x 22' High  
Winter Operation 72° – 0°



## Project Challenge

Ammeal Pharmaceuticals relocated from NJ facility to Glasgow, KY. They wanted to install the most energy efficient heating and cooling system in their new space. Storing pharmaceutical drugs requires maintaining no more than a 1-2° difference between ceiling and floor...anywhere in the building including storage shelves. Previous facilities struggled with uneven temperature on shelving units. Conventional roof top units along with shelf mounted circulation fans were utilized unsuccessfully. Ammeal also reported dissatisfaction with utility costs.

## Project Solution

Ammeal installed energy efficient roof top units incorporated with Air Energy's (5) ER-142 rated at 16,500 cfm + (12) ER-130 rated at 9,000 cfm ceiling hung air rotation. By installing the (17) ER units with a total of 174,000 cfm, Ammeal was able to turn over the air in the facility 5 times per hour. This air turn-over helped maintain no more than a 1-2° temperature difference in the space. By circulating the air with the ER units, Ammeal was able to save money in electrical costs by cycling the higher horsepower roof top units off when heat/cooling was not required.

## Results

Adding five ER 142 and twelve ER-130 units to Ammeal Pharmaceuticals has resulted in:

- ✓ Maintain no more than a 1-2° difference in the facility
- ✓ Reduced heating and cooling costs by \$52,000 or 47% energy savings
- ✓ Qualified & received \$60,000 in EPAC tax credit

