

# RETROFIT CASE STUDY

## Cambridge Space Heaters vs. Air Turnover Furniture Warehouse- Ohio

*Note: New Addition has Cambridge, Old section has Cambridge and one Air Rotation.. 80% of building is now Cambridge. They replaced one Air Rotation*

### Building Specifications - Before

- 105,948 ft<sup>2</sup>
- Located in Perrysburg, OH
- 1 @ 3125 MBH / 100,000 CFM (2) 10 HP Motors
- 1 @ 2175 MBH / 60,000 CFM / 2-5 HP Motors

### Building Specifications - After

- 210,000 ft<sup>2</sup>
- Located in Perrysburg, OH
- 1 @ 2175MBH / 60,000 CFM / (2) 5 HP Motors
- 3 @ 1200 MBH / 5700 CFM / 3 HP Motors



### BEFORE

Indirect Fired Air Turnover

#### Operating Costs

\$0.54/ft<sup>2</sup> Gas cost @ \$1.00/therm  
\$0.12/ft<sup>2</sup> Electric cost @  
\$0.08/kWh

**\$0.66/ft<sup>2</sup> Total cost**

### AFTER

Cambridge Space Heaters

#### Operating Costs

\$0.33/ft<sup>2</sup> Gas cost @ \$1.00/therm  
\$0.03/ft<sup>2</sup> Electric cost @  
\$0.08/kWh

**\$0.36/ft<sup>2</sup> Total cost**



### SUMMARY

After building size increase 100% and installed Cambridge, the fuel cost increased only 9%.