Retrofit Case Study

Cambridge Space Heaters vs. Hot Water Boiler

Manufacturing Plant





Building Specifications

- 78,000 ft²
- Over 50 year old building
- 18' Ceilings Lots of Glass
- · Located in Broadview, IL



Before - Hot Water Boiler

Performance

- Uneven temperatures
- Cold draft areas
- High Maintenance Cost (\$15,000)
- · High Energy Bills

Operating Costs

Based on:

89.822 therms for 2005-06 heating season Normalized to 30 year averages

\$0.87/ft² Gas cost @ \$0.75/therm



After - Cambridge Space Heaters

Performance

- More even temperatures
- Reduce Maintenance Cost
- Reduced Energy Bills

Operating Costs

Based on:

43,376 therms for 2006-07 heating season Normalized to 30 year averages

\$0.36/ft² Gas cost @ **\$0.75/therm**

"I expected the energy savings by upgrading to the Cambridge system. I overlooked the \$15,000 in annual Boiler maintenance cost."

> - Wayne Mackey **Plant Manager**

Summary

The Cambridge system used 52% less gas.

The Cambridge system saved approximately \$34,835/year in gas cost operating at \$0.36/ft² vs. \$0.87/ft².

