

Retrofit Case Study

Cambridge Space Heaters vs. Steam Boiler

Grand Rapids Manufacturing Plant



Building Specifications

- 231,000 ft²
- Over 90 year old building
- Located in Grand Rapids, MI

Note:

Paint Drying Oven (heat gain) no longer used

“The new System provides much better temperatures and has greatly improved our indoor air quality. In fact, the negative conditions have been eliminated.”

Harry Huston
Facilities Manager

Summary

The Cambridge system used **36% less** gas.

The Cambridge system saved approximately **\$109,000/year** operating at \$0.84/ft² vs. \$1.31/ft².

Before – Steam Boiler

Performance

- Uneven temperatures
- Cold dock areas
- High maintenance costs
- Negative pressure in building

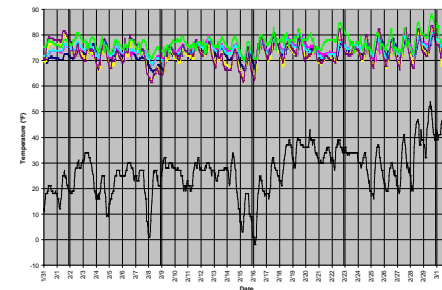
Operating Costs

Based on:

304,000 therms for 2003

Normalized to 30 year averages

\$1.31/ft² Gas cost @ \$1.00/therm



After - Cambridge Space Heaters

Performance

- More even temperatures
- Eliminated negative pressure problems

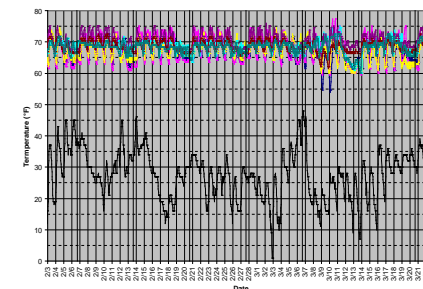
Operating Costs

Based on:

194,000 therms for 2005-06 heating season

Normalized to 30 year averages

\$0.84/ft² Gas cost @ \$1.00/therm



760 Long Road Crossing Dr. • Chesterfield MO 63005
800-899-1989 • www.cambridge-eng.com