Retrofit Case Study

Cambridge Space Heaters vs. Hot Water Boiler

Heavy Equipment Warehouse

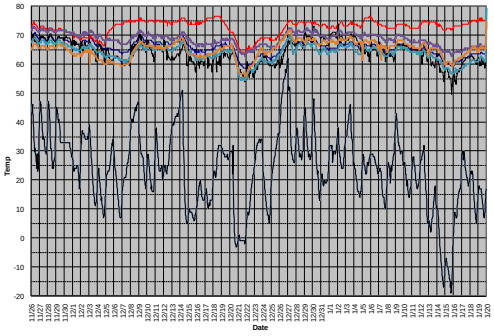
Facility Specifications

- (8) 134,375 ft² buildings
- 1,075,000 ft² total
- 24' high
- Concrete walls
- Concrete roof w/ 1½" insulation
- Located in Delavan, IL

Before – Hot Water Boiler/Unit Heaters

Performance

- Uneven temperatures
- Cold draft areas
- High maintenance cost
- High gas and electric bills



Operating Costs

Based on:

589,793 therms/1,640,667 kWh for 2008

Normalized to 30 year averages

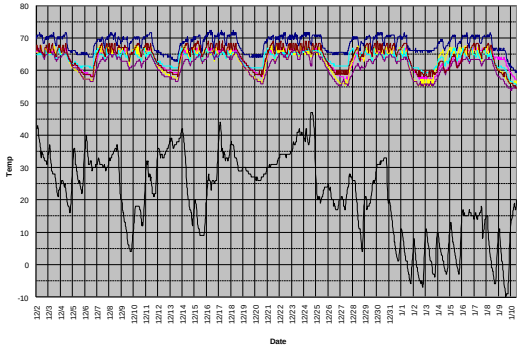
$0.55/ft² Gas cost @ $1.00/therm

$0.14/ft² Electrical cost @ $0.09/kWh

After - Cambridge Space Heaters

Performance

- More even temperatures
- Reduced maintenance costs
- Reduced gas and electric bills



Operating Costs

Based on:

406,256 therms/267,216 kWh for 2010

Normalized to 30 year averages

$0.38/ft² Gas cost @ $1.00/therm

$0.02/ft² Electrical cost @ $0.09/kWh

Summary

The Cambridge system used **42% less** total energy.

The Cambridge system saved approximately **$312,000/year** operating at $0.40/ft² vs $0.69/ft².

CAMBRIDGE ENGINEERING INC®

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