

Retrofit Case Study

Cambridge Space Heaters vs. Indirect Fired Air Turnover

Parts Distribution Facility



Building Specifications

- 301,000 ft²
- Over 30 year old building
- Located in Tappan, NY

Operating Note:

If the Cambridge System had been operated @ 60°, the savings would have been \$88,000/year or 42%.

Before – Indirect Fired Air Turnover

Performance

- Uneven temperatures
- Cold dock areas
- High maintenance costs
- High operating costs

Operating Costs

Based on:

209,935 therms for 2003-04 calendar year @ 60
Normalized to 30 year averages

\$0.70/ft² Gas cost @ \$1.00/therm



After - Cambridge Space Heaters

Performance

- More even temperatures
- Provides summer ventilation
- Lower Operating costs
- Reduced maintenance cost

Operating Costs

Based on:

159,841 therms for 2008 calendar year @ 65
Normalized to 30 year averages

\$0.53/ft² Gas cost @ \$1.00/therm



Summary

The Cambridge system used **24% less** natural gas.

The Cambridge system saved approximately **\$50,000/year** operating at \$0.53/ft² vs. \$0.70/ft².

The Cambridge system saved 24%, while providing 5° higher temperatures.



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