

Retrofit Case Study

Cambridge Space Heaters vs.
Indirect Fired Air Turnover

Steel Storage



Building Specifications

- 208,000 ft²
- Bldg Height 55'
- Over 30 year old building
- Located in Cincinnati, OH
- Un-insulated walls

Before – Indirect Fired Air Turnover

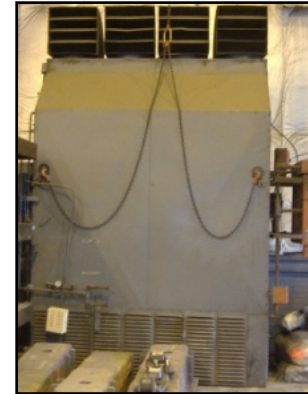
Performance

- Very uneven temperatures
- Needed supplemental heat
- Very hot at ceiling

Operating Costs

\$1.26/ft² Gas cost @ \$1.00/therm
\$0.10/ft² Electric cost @ \$0.08/kWh

\$1.36/ft² Total cost



After - Cambridge Space Heaters

Performance

- Supplemental heat no longer needed
- More even temperatures
- Reduced stratification

Operating Costs

\$0.86/ft² Gas cost @ \$1.00/therm
\$0.05/ft² Electric cost @ \$0.08/kWh

\$0.91/ft² Total cost



Summary

The Cambridge system used **33% less** total energy.
The Cambridge system saved approximately \$94,000/year
operating at **\$0.86/ft² vs. \$1.36/ft²**



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