

Retrofit Case Study

Cambridge Space Heaters vs.
Indirect Fired Air Turnover

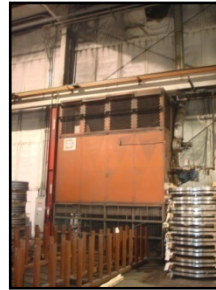
Steel Storage Warehouse- Indiana



Building Specifications

- 166,000 ft² (66,000 ft² addition)
- 100,000 ft²
- Located in Butler, IN.
- 1 @ 3225 MBH / 100,000 CFM 28 Total HP
- 1 @ 750 MBH / 20,000 CFM / 5 HP Motor
- 4 @ 1200 MBH / 5700 CFM / 3 HP Motors

Before – Indirect Fired Air Turnover

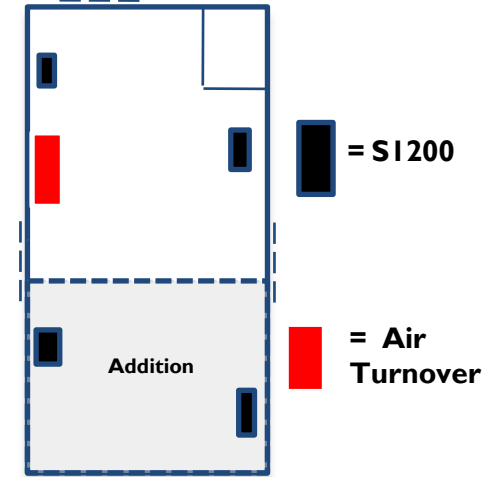


Operating Costs

\$0.60/ft² Gas cost @ \$1.00/therm
\$0.13/ft² Electric cost @ \$0.08/kWh

\$0.73/ft² Total cost

Layout



After - Cambridge Space Heaters



Operating Costs

\$0.24/ft² Gas cost @ \$1.00/therm
\$0.01/ft² Electric cost @ \$0.08/kWh

\$0.25/ft² Total cost

- “Huge noisy monster replaced by four smaller units”
- “More consistent temperatures”
- “Dock areas were 10° cooler”
- “Cost savings is tremendous”

Todd A. Lanning
Executive Manager of Operations
Paragon Steel

Summary

After building size **increased 66%** and a new Cambridge heating system was installed in the entire building, the fuel cost still decreased **by 33%**



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