

Comparative Case Study

Cambridge Space Heaters vs. Air Turnover

Paper Products Distributor

Cambridge Space Heaters



Operating Costs

Based on 7,086 Heating Degree Days @ 65°

\$0.11/ft² Gas cost @ \$1.00/therm

\$0.02/ft² Electric cost @ \$0.08/kWh

\$0.13/ft² Total cost

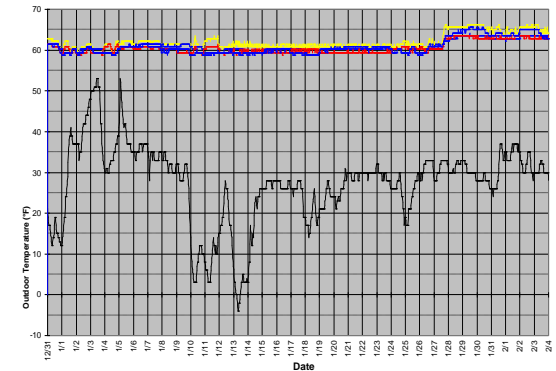
Building Specifications

- 215,040 ft² x 30' high
- R-19 Roof / R-11 Walls
- 33 active doors
- Located in Milwaukee, WI

Heating System

- (3) Cambridge Space Heaters
- Thru wall mounting
- 3,615 MBH total
- 20,820 CFM total
- 15 HP total - intermittent

Performance



**± 4° indoor temperature variation
from 60° / 63° setpoint**

Air Turnover



Operating Costs

Based on 6,485 Heating Degree Days @ 65°

\$0.31/ft² Gas cost @ \$1.00/therm

\$0.07/ft² Electric cost @ \$0.08/kWh

\$0.38/ft² Total cost

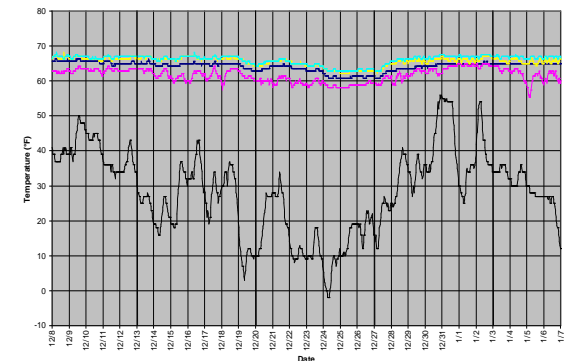
Building Specifications

- 228,000 ft² x 27' high
- R-19 Roof / R-10 Walls
- 23 active doors
- Located in Chicago, IL

Heating Systems

- (2) Air Turnover Heaters
- Floor mounting
- 6,250 MBH total
- 200,000 CFM total
- 40 HP total - continuous

Performance



**± 9° indoor temperature variation
from 65° setpoint**

Summary

The Cambridge system used **66% less** total energy in a colder climate. If the 228,000 ft² facility had installed a Cambridge system they could have saved approximately **\$57,000/year** operating at \$0.13/ft² vs. \$0.38/ft²



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