# COMPARATIVE CASE STUDY

**Cambridge Space Heaters vs. Air Turnover**
**Side-By-Side Warehouses**

## Cambridge Space Heaters

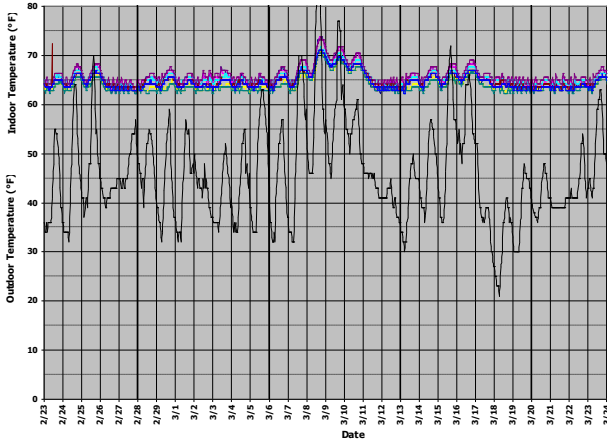
**Operating Costs**
Based on 5,441 Heating Degree Days

$0.19/ft$^2$ Gas cost @ $1.00/therm
$0.02/ft$^2$ Electric cost @ $0.08/Kwh

**$0.21/ft$^2$ Total cost**

**Building Specifications**
- 62,000 ft$^2$ x 34' high
- R-19 Roof / R-3 Walls

**Heating System**
- (2) Cambridge Space Heaters
- Roof top mounting
- 1,800 MBH total
- 11,400 CFM total
- 6 HP total – intermittent




± 4° indoor temperature variation
from 65° setpoint

## Air Turnover

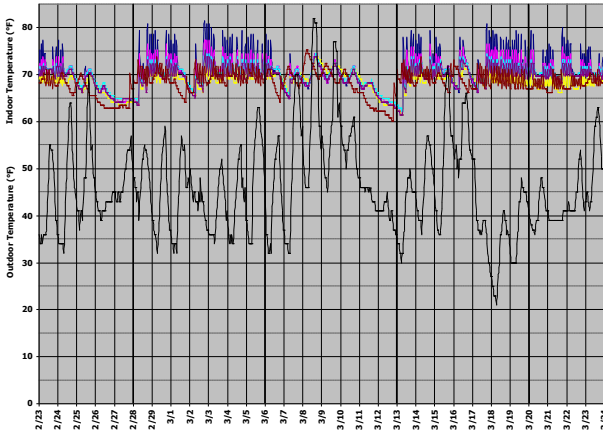
**Operating Costs**
Based on 5,441 Heating Degree Days

$0.33/ft$^2$ Gas cost @ $1.00/therm
$0.05/ft$^2$ Electric cost @ $0.08/Kwh

**$0.38/ft$^2$ Total cost**

**Building Specifications**
- 24,000 ft$^2$ x 34' high
- R-19 Roof / R-3 Walls

**Heating System**
- (1) Air Turnover Heater
- Floor mounting
- 1,250 MBH total
- Unknown CFM
- 6 HP total – intermittent (turned off due to noise)




± 12° indoor temperature variation
from 70° setpoint

## Summary

The Cambridge system used over **45% less** total energy.

If the 24,000 ft$^2$ facility had installed a Cambridge system they could have saved approximately **$4,000/year** operating at $0.21/ft$^2$ vs. $0.38/ft$^2$.

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