

Comparative Case Study

Cambridge Space Heaters vs. Recirculation Heaters

Large Northern Warehouses

Cambridge Space Heaters



Operating Costs

Based on 7,644 Heating Degree Days @ 65°

\$0.10/ft² Gas cost @ \$0.50/therm

\$0.02/ft² Electric cost @ \$0.08/Kwh

\$0.12/ft² Total cost

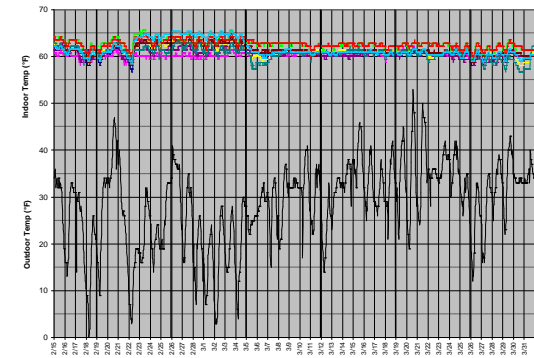
Building Specifications

- R-14 Roof / R-10 Walls
- 1,400,000 ft² x 36' high
- 220 Doors
- Located in Upstate NY

Heating System

- (17) Cambridge Space Heaters
- Roof top mounting
- 2200 MBH each
- 11,600 CFM average
- 197,150 CFM total
- 162.5 HP total - intermittent

Performance



± 6° indoor temperature variation
from 60° setpoint

Recirculation Heaters



Operating Costs

Based on 6,488 Heating Degree Days @ 65°

\$0.10/ft² Gas cost @ \$0.50/therm

\$0.14/ft² Electric cost @ \$0.08/Kwh

\$0.24/ft² Total cost

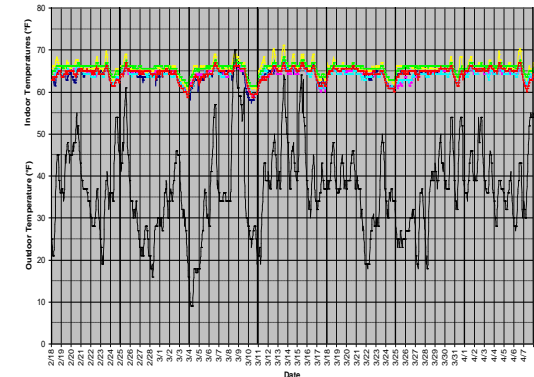
Building Specifications

- R-19 Roof / R-19 Walls
- 1,400,000 ft² x 45' high
- 75 doors
- Located in Northwest Ohio

Heating System

- (8) Direct-fired Recirculation Heaters
- Roof top mounting
- 77,000 MBH total
- 800,000 CFM total (.76 AT/Hr)
- 600 HP total - continuous

Performance



± 7° indoor temperature variation
from 65° setpoint

Summary

The Cambridge system used over **50% less** total energy in a colder climate.

If the Ohio facility had installed a Cambridge system they could have saved approximately

\$168,000/year operating at \$0.12/ft² vs. \$0.24/ft².



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