

Comparative Case Study

Cambridge Space Heaters vs. Direct Fired Recirculation

New York Warehouses

Cambridge Space Heaters



Operating Costs

Based on 7,642 Heating Degree Days at 65°

\$0.24/ft² Gas cost @ \$1.00/therm

\$0.03/ft² Electric cost @ \$0.08/kWh

\$0.27/ft² Total cost

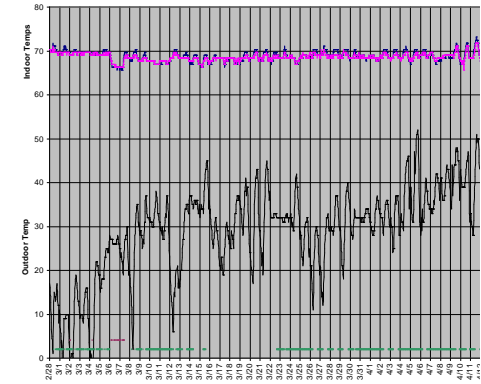
Building Specifications

- 50,000 ft² x 24' high
- R-30 Roof / R-21 Wall
- Located in Plattsburgh, NY

Heating System

- (2) Cambridge Space Heaters
- Thru wall mounting
- 1,800 MBH total
- 11,000 CFM total
- 6 HP total – intermittent

Performance



± 5° indoor temperature variation
from setpoint

Direct Fired Recirculation



Operating Costs

Based on 7,642 Heating Degree Days at 65°

\$0.55/ft² Gas cost @ \$1.00/therm

\$0.19/ft² Electric cost @ \$0.08/kWh

\$0.74/ft² Total cost

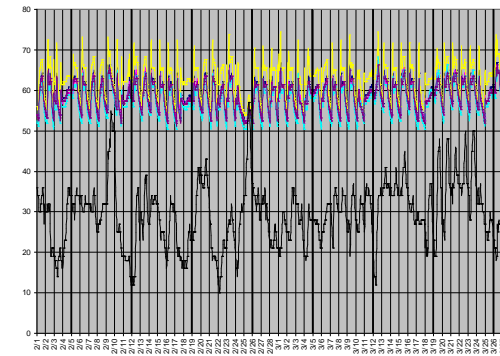
Building Specifications

- 45,000 ft² x 25' high
- R-19 Roof / R-13 Walls
- Located in Buffalo, NY

Heating System

- (1) Direct Fired Recirculation
- Pad mounting
- 3,850 MBH total
- 40,000 CFM total
- 20 HP total – continuous w/ setback

Performance



± 10° indoor variation
from setpoint

Summary

The Cambridge system used over **64% less** total energy.

If the 45,000 ft² facility had installed a Cambridge system they could have saved approximately **\$21,000/year** operating at \$0.27/ft² vs. \$0.74/ft².



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