

COMPARATIVE CASE STUDY

Cambridge Space Heaters vs. Direct Fired Recirculation Distribution Center

Cambridge Space Heaters



Operating Costs

Based on 4,913 Heating Degree Days @ 60°

\$0.11/ft² Gas cost @ \$1.00/therm

\$0.01/ft² Electric cost @ \$0.08/Kwh

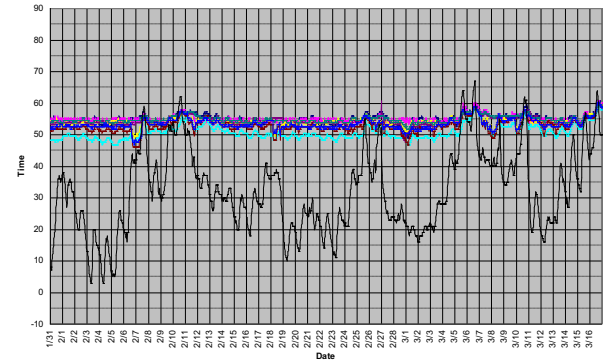
\$0.12/ft² Total cost

Building Specifications

- 999,700 ft² x 35' high
- R-14 Roof / R-10 Wall

Heating System

- (8) Cambridge Space Heaters
- 16,192 MBH total
- 81,920 CFM
- 60 HP total - intermittent



Direct Fired Recirculation



Operating Costs

Based on 4,913 Heating Degree Days @ 60°

\$0.37/ft² Gas cost @ \$1.00/therm

\$0.05/ft² Electric cost @ \$0.08/Kwh

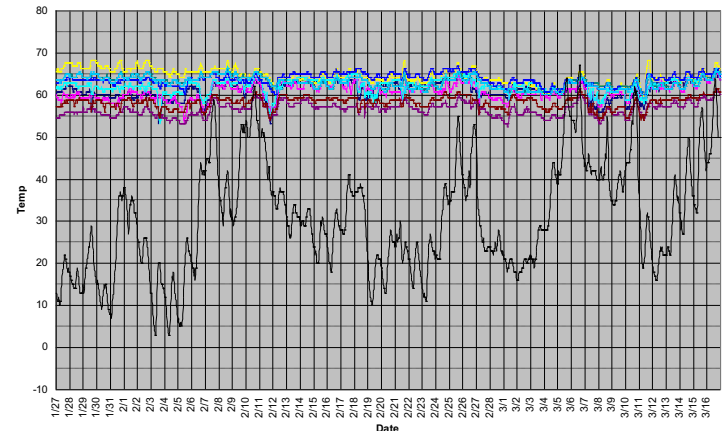
\$0.42/ft² Total cost

Building Specifications

- 814,848 ft² x 37' high
- R-14 Roof / R-10 Walls

Heating System

- (4) Direct Fired Recirculation
- 23,548 MBH total
- 215,000 CFM
- 120 HP total – continuous



Summary

The Cambridge system used over **71% less** total energy with less temperature variation.

If the 814,848 ft² facility had installed a Cambridge system they could have saved approximately

\$244,000/year operating at \$0.12/ft² vs. \$0.42/ft².