

Comparative Case Study

Cambridge HTHV vs. Direct Fired Recirculation

Chicago Distribution Centers

Cambridge HTHV Space Heaters



Operating Costs

Based on 4,913 Heating Degree Days @ 60°

\$0.17/ft² Gas cost @ \$1.00/therm

\$0.01/ft² Electric cost @ \$0.08/kWh

\$0.18/ft² Total cost

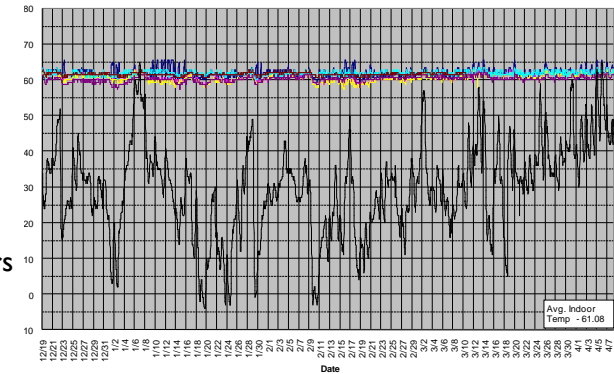
Building Specifications

- 440,000 ft² x 35' high
- R-14 Roof / R-10 Wall

Heating System

- (4) Cambridge HTHV Space Heaters
- 8,096 MBH total
- 40,800 CFM
- 30 HP total - intermittent

Performance



Direct Fired Recirculation Heaters



Operating Costs

Based on 4,913 Heating Degree Days @ 60°

\$0.21/ft² Gas cost @ \$1.00/therm

\$0.07/ft² Electric cost @ \$0.08/kWh

\$0.28/ft² Total cost

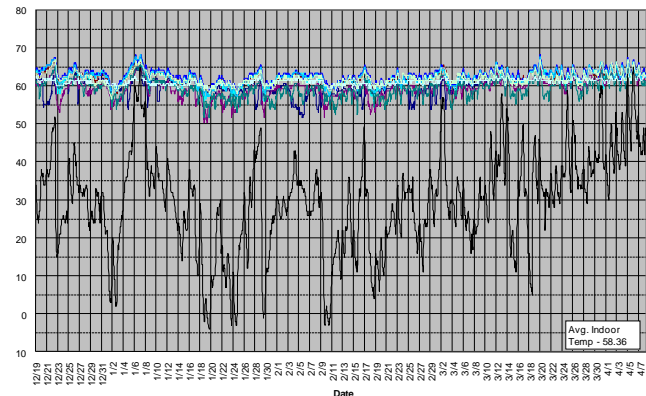
Building Specifications

- 370,000 ft² x 34' high
- R-14 Roof / R-10 Walls

Heating Systems

- (4) Direct Fired Recirculation
- 5,600 MBH total
- 100,000 CFM
- 60 HP total – continuous

Performance



Summary

The Cambridge system used over **36% less** total energy with less temperature variation.

If the 370,000 ft² facility had installed a Cambridge HTHV system they could have saved approximately **\$37,000/year** operating at \$0.18/ft² vs. \$0.28/ft².



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