

Cambridge Case Study

Cambridge Space Heaters vs. Direct Fired Recirculation

Columbus, Ohio Distribution Centers

Cambridge Space Heaters



Operating Costs

Based on 5,545 Heating Degree Days @ 65°

\$0.19/ft² Gas cost @ \$1.00/therm

\$0.01/ft² Electric cost @ \$0.08/kWh

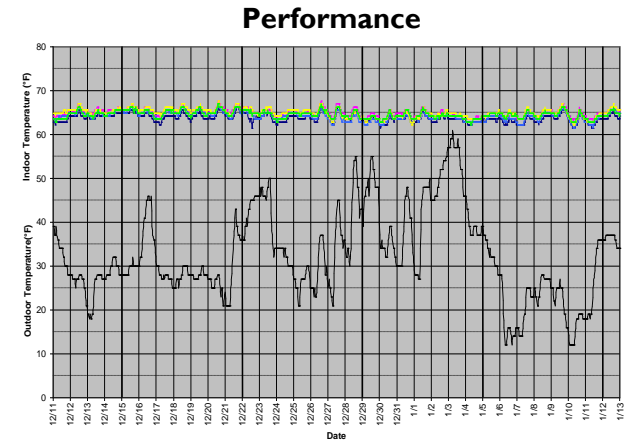
\$0.20/ft² Total cost

Building Specifications

- 360,000 ft² x 35' high
- R-19 Roof / R-5.3 Walls

Heating System

- (4) Cambridge Space Heaters
- 5800 MBH total
- 27,900 CFM total
- 20 HP total - intermittent



5° indoor temperature variation

Direct Fired Recirculation



Operating Costs

Based on 5,545 Heating Degree Days @ 65°

\$0.21/ft² Gas cost @ \$1.00/therm

\$0.09/ft² Electric cost @ \$0.08/kWh

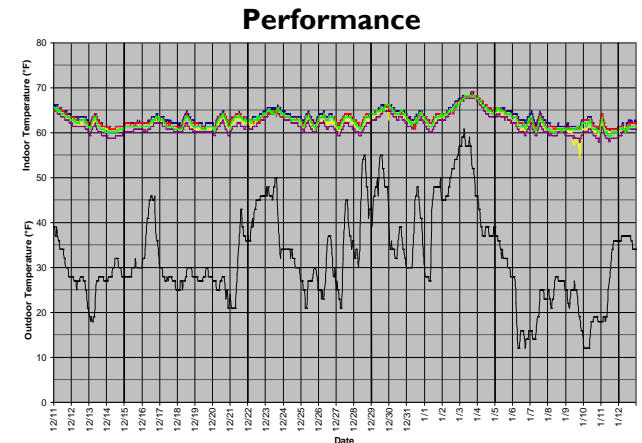
\$0.30/ft² Total cost

Building Specifications

- 207,000 ft² x 35' high
- R-19 Roof / R-4.3 Walls

Heating System

- (2) Direct Fired Recirculation
- 7650 MBH total
- 70,000 CFM total
- 50 HP total - continuous



15° indoor temperature variation

Summary

The Cambridge system used over **33% less** total energy with less temperature variation. If the 207,000 ft² facility had installed a Cambridge system they could have saved approximately **\$21,000/year** operating at \$0.20/ft² vs. \$0.30/ft².



760 Long Road Crossing Dr. • Chesterfield MO 63005
800-899-1989 • www.cambridge-eng.com