COMPARATIVE CASE STUDY

Cambridge Space Heaters vs. Direct Fired Recirculation Warehouses

Cambridge Space Heaters



Operating Costs Based on 5,682 Heating Degree Days @ 65°

 $0.17/ft^2 Gas cost @ 1.00/therm 0.02/ft^2 Electric cost @ 0.08/kWh$

\$0.19/ft² Total cost

Direct Fired Recirculation



Operating Costs Based on 5,750 Heating Degree Days @ 65°

\$0.23/ft² Gas cost @ \$1.00/therm \$0.16/ft² Electric cost @ \$0.08/kWh

\$0.39/ft² Total cost

Building Specifications

- R-14 Roof / R-10/R1.5 Walls
- 579,000 ft² x 38' high
- 88 doors
- · Located in Bethlehem, PA

Heating System

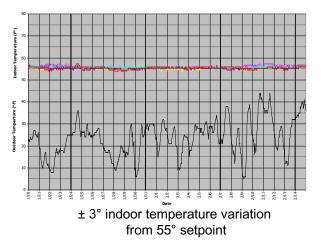
- (7) Cambridge Space Heaters
- Thru wall mounting
- 11,300 MBH total
- 63,500 CFM total
- 43.5 HP total intermittent

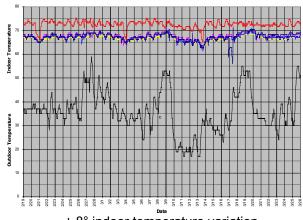
Building Specifications

- R-19 Roof / R-19/R-2 Walls
- 361,200 ft² x 40' high
- 56 doors
- Located in Dayton, Ohio

Heating System

- (2) Direct-fired Recirculation Heaters
- Roof top mounting
- 8,250 MBH total
- 210,000 CFM total (.87 AT/Hr)
- 150 HP total continuous





± 8° indoor temperature variation from 65° setpoint



Summary

The Cambridge system used 51% less total energy with more even temperatures.

If the 361,200 ft² facility had installed a Cambridge system they could have saved approximately **\$72,000/year** operating at $0.19/ft^2$ vs. $0.39/ft^2$.