Comparative Case Study

Cambridge HTHV vs. Infrared Heaters

Distribution Centers – Central OH

Cambridge HTHV Space Heaters

Operating Costs

Based on 6,153 Heating Degree Days @ 65°

$0.16/ft² Gas cost @ $1.00/therm
$0.01/ft² Electric cost @ $0.08/kWh

$0.17/ft² Total cost

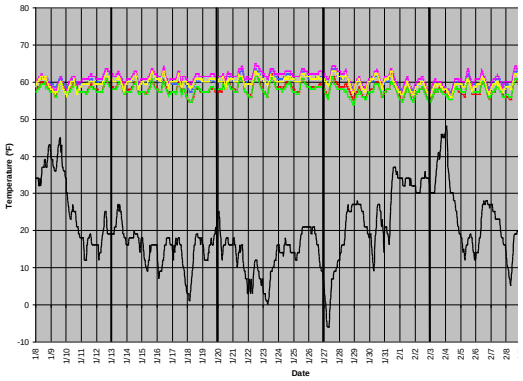
Building Specifications

- 150,000 ft² x 27' high
- R-15 Roof / R-12 Walls

Heating System

- 2) Cambridge HTHV Space Heaters
- Thru Wall mounting
- 2,912 MBH total
- 13,880 CFM total
- 10 HP total - intermittent

Performance



± 5° indoor temperature variation from 65° setpoint

Infrared Heaters

Operating Costs

Based on 6,153 Heating Degree Days @ 65°

$0.29/ft² Gas cost @ $1.00/therm
Electric usage insignificant

$0.29/ft² Total cost

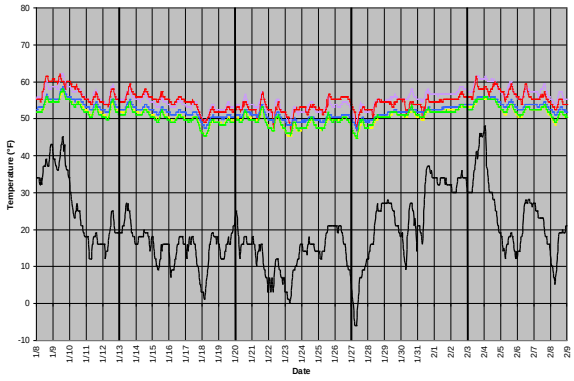
Building Specifications

- 99,900 ft² x 28' high
- R-15 Roof / R-12 Walls

Heating Systems

- (24) Infrared Tube Heaters
- Suspended mounting @ 22'
- 4,200 MBH total
- No outside air
- <1 HP total - intermittent

Performance



17° indoor temperature variation (setpoint unknown)

Summary

The Cambridge system used **41% less** total energy with less temperature variation.

If the 99,900 ft² facility had installed a Cambridge HTHV system they could have saved approximately **$12,000/year** operating at $0.17/ft² vs. $0.29/ft².

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