

COMPARATIVE CASE STUDY

Cambridge Space Heaters vs. Infrared Distribution Centers – New York and Michigan

Cambridge Space Heaters



Operating Costs

Based on 7,518 Heating Degree Days @ 65°

\$0.20/ft² Gas cost @ \$1.00/therm

\$0.03/ft² Electric cost @ \$0.08/kWh

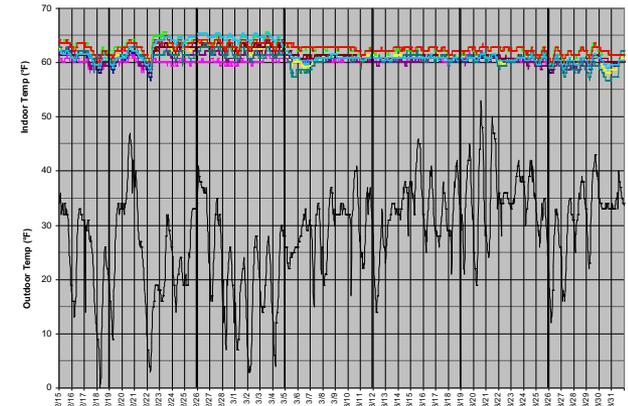
\$0.23/ft² Total cost

Building Specifications

- R-14 Roof / R-10 Walls
- 1,400,000 ft² x 36' high
- Located in Upstate NY

Heating System

- (17) Cambridge Space Heaters
- Roof top mounting
- 37,400 MBH total
- 197,150 CFM total
- 162.5 HP total - intermittent



± 6° indoor temperature variation from setpoint

Infrared Heaters



Operating Costs

Based on 6,821 Heating Degree Days @ 65°

\$0.34/ft² Gas cost @ \$1.00/therm

Electric cost insignificant

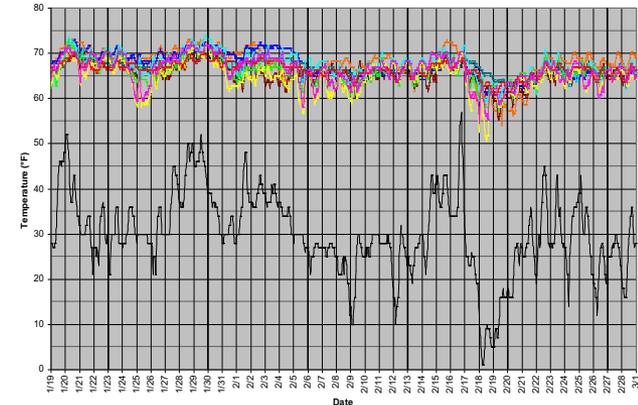
\$0.34/ft² Total cost

Building Specifications

- R-22 Roof / R-15 Walls
- 1,075,000 ft² x 37' high
- Located in Southern MI

Heating System

- Infrared Tube Heaters
- Suspended mounting
- No outside air



± 15° indoor temperature variation from setpoint

Summary

The Cambridge system used **32% less** total energy with more even temperatures in a colder climate with less insulation.

If the 1,075,000 ft² facility had installed a Cambridge system they could have saved approximately **\$118,000/year** operating at \$0.23/ft² vs. \$0.34/ft².