Comparative Case Study

Cambridge HTHV vs. Air Turnover

Side by Side Tenants - Massachusetts

Cambridge HTHV Space Heaters

Operating Costs

Based on 6,014 Heating Degree Days

$0.15/ft² Gas cost @ $0.50/therm

$0.05/ft² Electric cost @ $0.08/kWh

$0.20/ft² Total cost

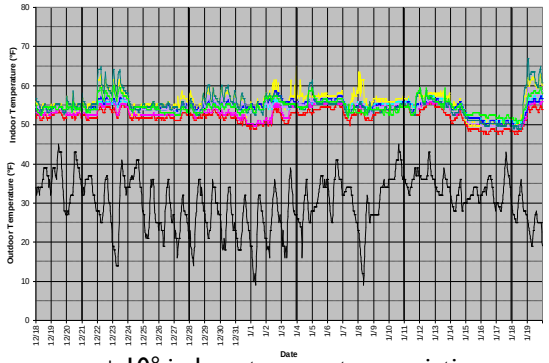
Building Specifications

- 105,000 ft² x 24' high
- R-4 Roof / R-2 Walls

Heating System

- (4) Cambridge HTHV Space Heaters
- Roof top mounting
- 6,706 MBH total
- 31,000 CFM total
- 22.5 HP total - intermittent

Performance



± 10° indoor temperature variation from setpoint

Air Turnover Heaters

Operating Costs

Based on 6,014 Heating Degree Days

$0.26/ft² Gas cost @ $0.50/therm

$0.12/ft² Electric cost @ $0.08/kWh

$0.38/ft² Total cost

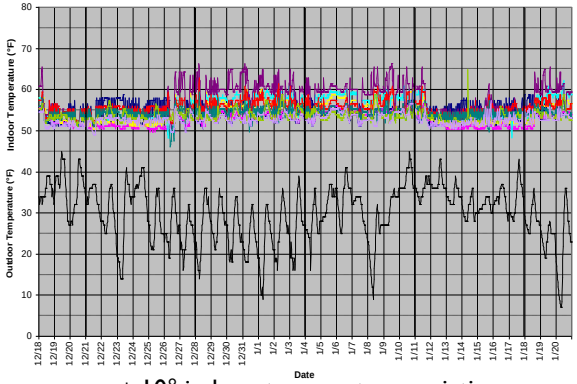
Building Specifications

- 105,000 ft² x 24' high
- R-4 Roof / R-2 Walls

Heating Systems

- (4) Air Turnover Heaters
- Floor mounting
- 10,000 MBH total
- No outside air
- 60 HP total - intermittent

Performance



± 10° indoor temperature variation from setpoint

Summary

The Cambridge system used over **45% less** total energy.

If the facility with air turnover heaters had installed a Cambridge HTHV system they could have saved approximately **$19,000/year** operating at $0.20/ft² vs. $0.38/ft².

CAMBRIDGE ENGINEERING INC®

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