

Performance Leader In Industrial Space Heating & Make-Up Air

COMPARATIVE CASE STUDY

Cambridge Space Heaters vs. Air Turnover

2 Side by Side Tenants - Central PA



Air Turnover Heaters

Cambridge Space Heaters

Building Specifications

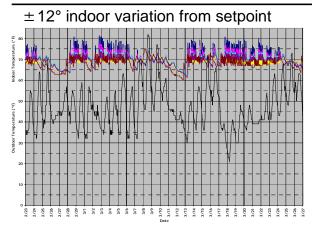
- R-19 Roof / R-3 Walls
- 24,000 ft² x 34' high

- R-19 Roof / R-3 Walls
- 62,000 ft² x 34' high

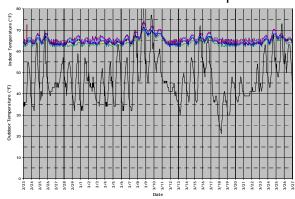
Heating System

- (1) Air Turnover Heater
- Floor mounting
- 1.250 MBH total
- Unknown CFM
- 6 HP total intermittent (turned off due to noise)
- (2) Cambridge Space Heaters
- Roof top mounting
- 1,800 MBH total
- 11,400 CFM total
- 6 HP total intermittent

Performance



±4° indoor variation from setpoint



Operating Costs

Based on 5,441 Heating Degree Days

\$0.16/ft² Gas cost @ \$0.50/therm \$0.05/ft² Electric cost @ \$0.08/Kwh

\$0.21/ft² (\$5,000/year) Total Cost

\$0.10/ft² Gas cost @ \$0.50/therm \$0.02/ft² Electric cost @ \$0.08/Kwh

\$0.12/ft² (\$7,000/year) Total Cost

<u>Summary</u>

The Cambridge system used 43% less total energy.

If the 24,000 ft² facility had installed a Cambridge system they could have saved approximately **\$2,000/year** operating at \$0.12/ft² vs. \$0.21/ft².