

Comparative Case Study

Cambridge Space Heaters vs. Unit Heaters

Minneapolis/ St. Paul, MN

Cambridge Space Heaters



Operating Costs

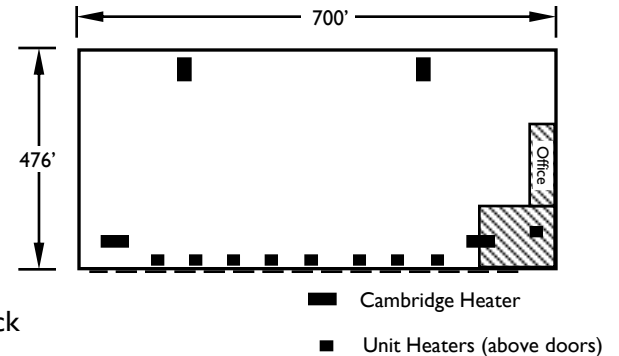
\$0.10/ft² Gas cost @ \$0.50/therm
 \$0.02/ft² Electric cost @ \$0.08/Kwh
\$0.12/ft² Total cost

Building Specifications

- R-19 Roof / R-10 Walls
- 333,200 ft² x 35' high

Heating System

- (4) Cambridge Space Heaters
- Roof top mounting
- 8,800 MBH total
- 40,532 CFM total
- 30 HP total – intermittent w/ setback
- (8) Unit heaters didn't operate



Unit Heaters



Operating Costs

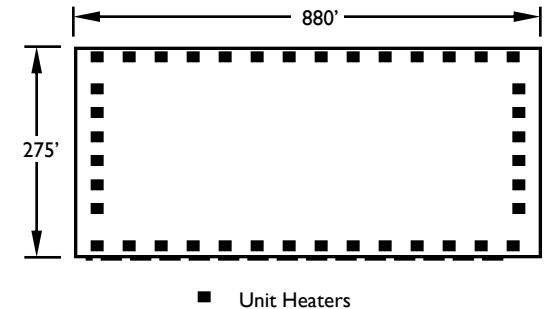
\$0.25/ft² Gas cost @ \$0.50/therm
 \$0.02/ft² Electric cost @ \$0.08/Kwh
\$0.27/ft² Total cost

Building Specifications

- R-19 Roof / R-10 Walls
- 241,800 ft² x 35' high

Heating System

- (42) Unit Heaters
- Ceiling mounting
- 8,400 MBH total
- No outside air
- 14 HP total – intermittent
- Building empty – No door activity



Summary

The Cambridge system used **56% less** total energy.

If the 241,800 ft² facility with unit heaters had installed a Cambridge system they could have saved approximately **\$36,000/year** operating at \$0.12/ft² vs. \$0.27/ft².



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