

Comparative Case Study

Cambridge Space Heaters vs. Unit Heaters

Detroit Warehouses

Cambridge Space Heaters



Operating Costs

Based on 3,369 Heating Degree Days @ 55

\$0.02/ft² Electric cost @ \$0.08/kWh

\$0.15/ft² Gas cost @ \$1.00/therm

\$0.17/ft² Total cost

Building Specifications

- 46,000 ft² x 28' high
- R-12 Roof / R-11 Walls
- Thermostats @ 55°
- Building unoccupied

Heating System

- (2) Cambridge Space Heaters
- 1800 MBH total
- 7,000 CFM total
- 4 HP total – intermittent

**“Now I will only use
Cambridge heaters in our
buildings”**

Unit Heaters



Operating Costs

Based on 3,369 Heating Degree Days @ 55

\$0.30/ft² Gas cost @ \$1.00/therm

\$0.02/ft² Electric cost @ \$0.08/kWh

\$0.32/ft² Total cost

Building Specifications

- 42,000 ft² x 28' high
- R-12 Roof / R-11 Walls
- Thermostats @ 55°
- Building unoccupied

Heating System

- (12) Unit Heaters
- 3000 MBH total
- No outside air
- 4 HP total - intermittent

Dave Hopper
Superintendent
Magnum Buildings

Summary

The Cambridge system used **47% less** total energy.

If the 42,000 ft² facility had installed a Cambridge system they could have saved approximately

\$6,000/year operating at \$0.17/ft² vs. \$0.32/ft².



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