COMPARATIVE CASE STUDY

Cambridge Space Heaters vs. Make Up Air
Distribution Centers - TX

Cambridge Space Heaters

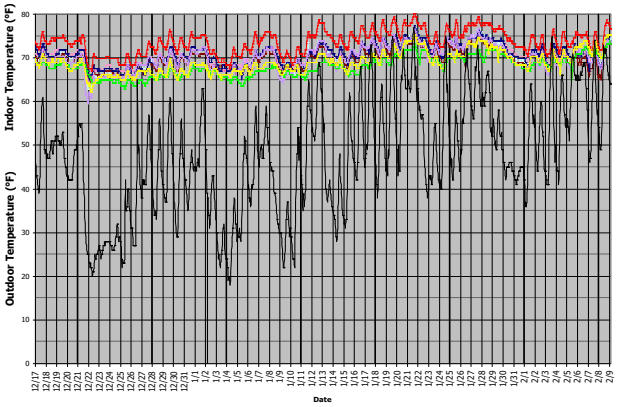
Operating Costs
Based on 2,490 Heating Degree Days at 65°

$0.018/ft^2 Gas cost @ $0.50/therm
$0.026/ft^2 Electric cost @ $0.08/Kwh

$0.04/ft^2 Total cost

Building Specifications
- R-2.7 Roof / R-1.5 Walls
- 604,800 ft^2 x 35' high
- Located in McKinney, TX

Heating System
- (8) Cambridge Space Heaters
- Roof top mounting
- 16,717 MBH total (28 Btu/ft^2)
- 112,000 CFM total (.185 CFM/ft^2)
- 120 HP total (.2 HP/Kft^2 - intermittent)



± 7° indoor temperature variation

Make Up Air

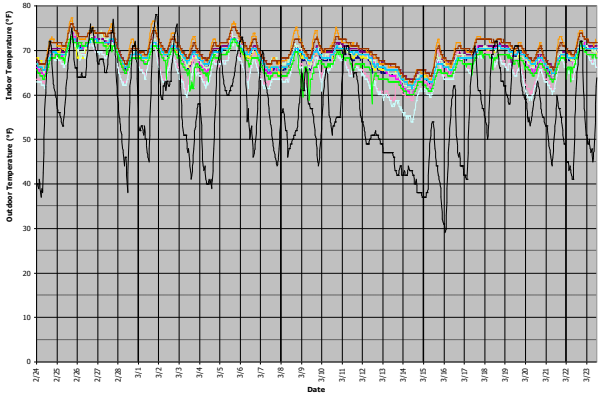
Operating Costs
Based on 2,407 Heating Degree Days at 65°

$0.031/ft^2 Gas cost @ $0.50/therm
$0.054/ft^2 Electric cost @ $0.08/Kwh

$0.09/ft^2 Total cost

Building Specifications
- R-11 Roof / R-1.5 Walls
- 425,000 ft^2 x 35' high
- Located in Dallas, TX

Heating System
- (6) Draw Thru Make-up Air Heaters
- Roof top mounting
- 9,798 MBH total (23 Btu/ft^2)
- 81,900 CFM total (.193 CFM/ft^2)
- 75 HP total (.18 HP/Kft^2 - continuous)



± 12° indoor temperature variation

Summary

The Cambridge system used **48% less** total energy.

If the 425,000 ft^2 facility had installed a Cambridge system they could have saved approximately **$21,000/year** operating at $0.04/ft^2 vs. $0.09/ft^2.

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