

# Comparative Case Study

Cambridge HTHV vs. Unit Heaters

## Side by Side Warehouses – Central OH

### Cambridge HTHV Space Heaters



#### Operating Costs

Based on 5,873 Heating Degree Days @ 65°

\$0.23/ft<sup>2</sup> Gas cost @ \$1.00/therm

\$0.02/ft<sup>2</sup> Electric cost @ \$0.08/kWh

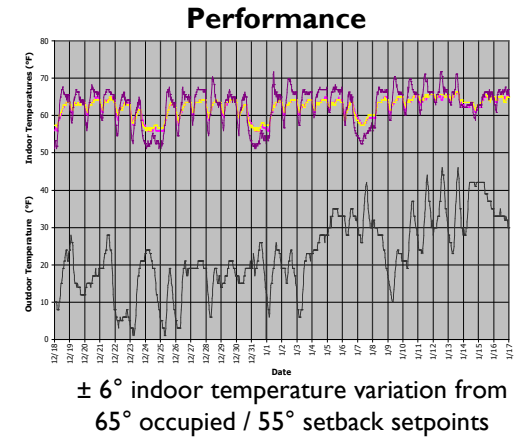
**\$0.25/ft<sup>2</sup> Total cost**

#### Building Specifications

- R-15 Roof / R-15 Walls
- 200,000 ft<sup>2</sup> x 25' high

#### Heating System

- (4) Cambridge HTHV Space Heaters
- Thru wall mounting
- 4,800 MBH total
- 27,800 CFM total
- 20 HP total – intermittent



### Unit Heaters



#### Operating Costs

Based on 5,873 Heating Degree Days @ 65°

\$0.38/ft<sup>2</sup> Gas cost @ \$1.00/therm

\$0.01/ft<sup>2</sup> Electric cost @ \$0.08/kWh

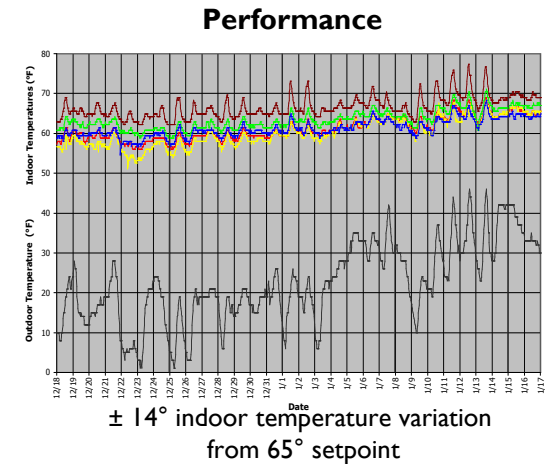
**\$0.39/ft<sup>2</sup> Total cost**

#### Building Specifications

- R-15 Roof / R-15 Walls
- 200,000 ft<sup>2</sup> x 25' high

#### Heating System

- (18) Unit Heaters
- Ceiling mounting
- 5,400 MBH total
- No outside air
- 9 HP total – intermittent



### Summary

The Cambridge system used **36% less** total energy with less temperature variation. If the facility with unit heaters had installed a Cambridge HTHV system they could have saved approximately **\$28,000/year** operating at \$0.25/ft<sup>2</sup> vs. \$0.39/ft<sup>2</sup>.