

Cambridge Case Study

Retail Distributor

Olathe,KS



BUILDING DETAILS

Size: 420,300 sq.ft. x 36 ft. High
Construction: R-12 Roof
 R-1.5 Walls

OPERATING CONDITIONS

Operating Hours: 24hrs/day 7 days/wk
Design Temperature: 60° @ 0°
Thermostat Setting: 65° occupied
Average Temperature: 68°
Heating System: Cambridge Space Heater
 8 @ 1702 MBH

Notes & Observations:

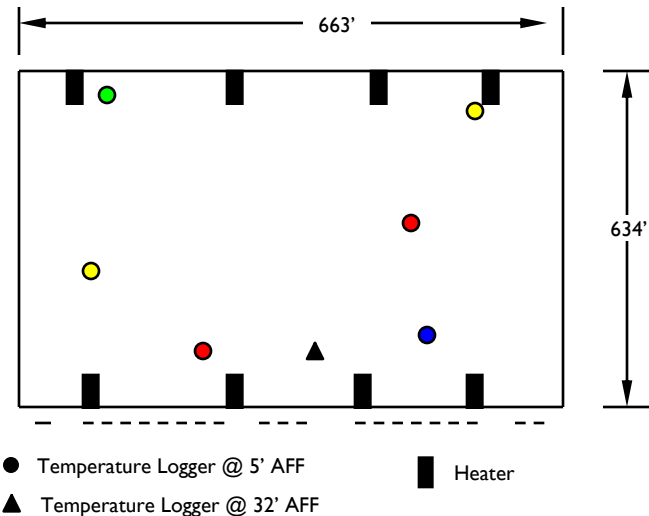
Average Indoor temperature from floor to ceiling is 1.7°
 Max Differential temperature from floor to ceiling is 5.5°

CALCULATED OPERATING COSTS *

for 30 year (1971-2000) average heating seasons

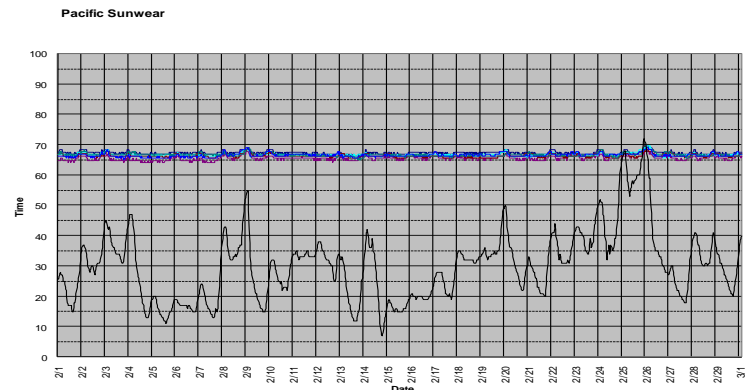
Indoor Temp	HDDs	@ \$0.75 / therm	@ \$1.00 / therm	@ \$1.25 / therm
50°	2,175	\$0.08 / ft ²	\$0.10 / ft ²	\$0.13 / ft ²
55°	2,951	\$0.11 / ft ²	\$0.14 / ft ²	\$0.18 / ft ²
60°	3,860	\$0.14 / ft ²	\$0.18 / ft ²	\$0.23 / ft ²
65°	4,918	\$0.18 / ft ²	\$0.23 / ft ²	\$0.29 / ft ²

* based on actual 2007-08 consumption of 107,180 therms for 5,329 Heating Degree Days



DATALOGGER GRAPH

Logging period: 02/01/08 -03 /01/008
Logging interval: 30 minutes



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