

Cambridge Case Study

Warehouse

Columbus, OH



BUILDING DETAILS

Size: 490,000 sq.ft. x 55 ft. High

Construction: R-7.5 Roof
R-10 Walls

OPERATING CONDITIONS

Operating Hours: 16 hrs/day 5 days/wk

Design Temperature: 65° @ 0°

Thermostat Setting: 68°

Average Temperature: 68°

Heating System: Cambridge Space Heaters
7 @ 2500 MBH
Rooftop mounting (Discharge @ 52')

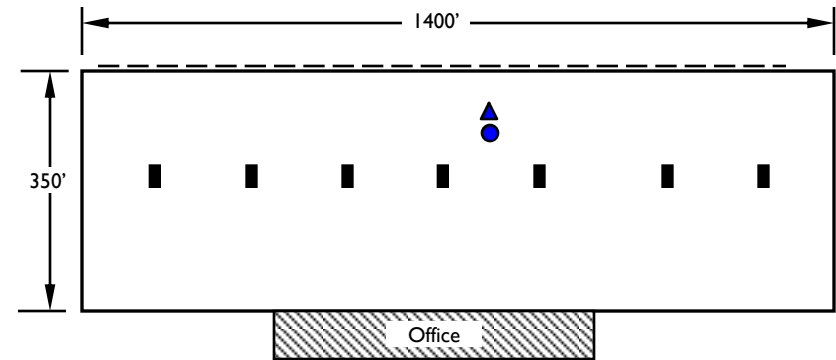
OBSERVATIONS

High Temperature at ceiling: 77°F

Low Temperature at ceiling: 69°F

Average stratification: 6°F

Review of the graph indicates that the temperature difference is greater during the occupied hours. This means that 4-5°F could be attributed to the lighting and solar gain during these hours.



● Temperature Logger @ 6' AFF

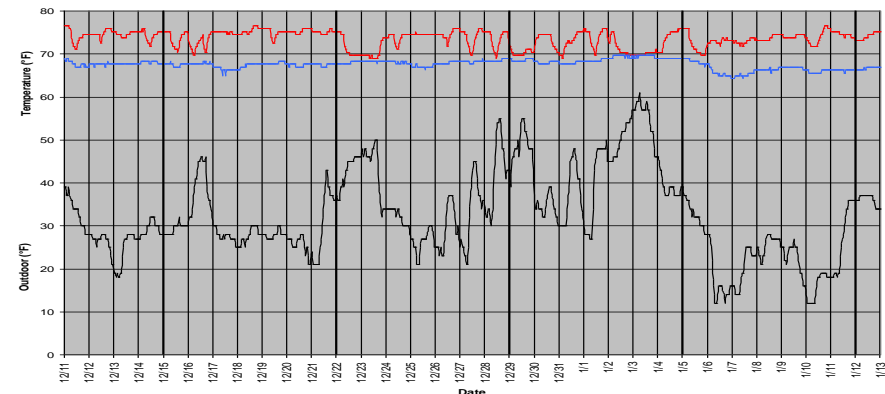
■ Heater

▲ Temperature Logger @ 55' AFF

DATALOGGER GRAPH

Logging period: 12/11/03 - 1/13/04

Logging interval: 30 minutes



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