

CASE STUDY

Bottling Plant – Denver, CO

OPERATING CONDITIONS

Operating Hours: 24 hrs/day 7 days/wk

Design Temperature: 60° @ -5°

Thermostat Setting: 65°

Average Temperature: 65°

Heating System: Cambridge Space Heaters

2 @ 1706 MBH

2 @ 1240 MBH

Rooftop mounting

NOTES AND OBSERVATIONS

Heaters running continuously for ventilation for LP forktrucks

CALCULATED OPERATING COST*

for 30 year (1971-2000) average heating seasons

*based on actual 1999-00 consumption of 47,123 therms for

5,092 Heating Degree Days

Indoor Temp	HDDs	@ \$0.75 / therm	@ \$1.00 / therm	@ \$1.25 / therm
50°	2,578	\$0.08 / ft ²	\$0.08 / ft ²	\$0.10 / ft ²
55°	3,540	\$0.11 / ft ²	\$0.14 / ft ²	\$0.18 / ft ²
60°	4,647	\$0.14 / ft ²	\$0.19 / ft ²	\$0.24 / ft ²
65°	5,897	\$0.18 / ft ²	\$0.24 / ft ²	\$0.30 / ft ²

BUILDING DETAILS

Size: 227,500 sq.ft. x 34 ft. High

Construction: R-19 Roof

R-7 Walls

DATALOGGER GRAPH

Logging period: November 28th – January 18th

Logging interval: 30 minutes

