# **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

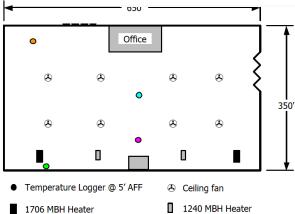
# **CALCULATED OPERATING COST\***

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
<b>50</b> °	2,578	\$0.08 / ft <sup>2</sup>	\$0.08 / ft <sup>2</sup>	\$0.10 / ft <sup>2</sup>
55°	3,540	\$0.11 / ft <sup>2</sup>	\$0.14 / ft <sup>2</sup>	\$0.18 / ft <sup>2</sup>
<b>60</b> °	4,647	\$0.14 / ft <sup>2</sup>	\$0.19 / ft <sup>2</sup>	\$0.24 / ft <sup>2</sup>
<mark>65</mark> °	5,897	\$0.18 / ft <sup>2</sup>	\$0.24 / ft <sup>2</sup>	\$0.30 / ft <sup>2</sup>

#### **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 18<sup>th</sup> Logging interval: 30 minutes

