



# FUEL SAVINGS REPORT

for

## MANUFACTURING FACILITY

GRANDVIEW, MISSOURI

### PROJECT HISTORY

(3) THERMO-CYCLER® Gas Fired Heating Units and a TM-480 THERMO-MIXER® Ventilation Air System were selected by this leading manufacturer of industrial controls and instrumentation for the new pre-engineered facility located in Grandview, Missouri. The state-of-the art facility is fully air conditioned and had less than a 3°F actual temperature difference when tested at design conditions.

### BUILDING DATA

- TOTAL AREA: 49,500 SQ. FT. (270' X 180' INCLUDES 4,250 SQ. FT. OFFICE)
- AVERAGE HEIGHT: 28 FT.
- OVERHEAD DOORS: 3 OVERHEAD DOORS
- WALL CONSTRUCTION: LOWER 10' FULL BLOCK, UPPER PRE-ENG W/ R-19 INSULATION
- ROOF CONSTRUCTION: PRE-ENG W/ R-30 INSULATION
- BUILDING USAGE: MANUFACTURING AND WAREHOUSE

**4.4¢  
per  
sq. ft.**

### Seasonal Gas Usage & Cost

Billing Period	Mcf Used	Fuel Cost
September 20- October 19	0	\$25. <sup>36</sup>
October 19 -November 18	23	\$121. <sup>57</sup>
November 18 - December 20	64	\$342. <sup>74</sup>
December 20 - January 21	150	\$836. <sup>21</sup>
January 21 - February 18	93	\$501. <sup>84</sup>
February 18 - March 22	48	\$259. <sup>26</sup>
March 22- April 21	4	\$29. <sup>66</sup>
April 21- May 20	10	\$53. <sup>47</sup>
May 20 -June 21	0	\$10. <sup>32</sup>
<b>Annual Total</b>	<b>392 Mcf</b>	<b>\$2180.<sup>43</sup></b> (@ \$5. <sup>56</sup> per Mcf)

### BOTTOM LINE

Energy efficient heat recovery and air distribution by the Thermo-Cycler Heating System allows this leading control and instrumentation manufacturer to comfortably heat nearly 50,000 sq. ft. of manufacturing/warehouse space for an average seasonal heating cost of less than 4 ½ cents per square foot based on a natural gas cost of \$5.<sup>56</sup> per Mcf.



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