



# FUEL SAVINGS REPORT

for  
**HVAC SHOP & OFFICE**  
CARLISLE, IOWA

## PROJECT HISTORY

In September, an Iowa HVAC Contractor installed (1) THERMO-CYCLER® GTC-300 Gas Fired Heating Unit was installed in their new shop & office building. Approximately 72% of the building was shop area heated by the 200 Mbh Thermo-Cycler and 28% was heated by a 100 Mbh 92% high efficiency furnace.

## BUILDING DATA

- ◆ TOTAL AREA: 6,240 SQ. FT. (104' x 60')
- ◆ SHOP AREA: 4,500 SF (75' x 60') OFFICE AREA: 1,740 SF (29' x 60')
- ◆ AVERAGE HEIGHT: 14 FT.
- ◆ OVERHEAD DOORS: 2 OVERHEAD DOORS
- ◆ WALL CONSTRUCTION: METAL BUILDING WITH R-13 INSULATION
- ◆ ROOF CONSTRUCTION: METAL BUILDING WITH R-38 INSULATION
- ◆ INSIDE DESIGN: 65 F
- ◆ BUILDING USAGE: HVAC SHOP & OFFICE

## Seasonal Gas Usage & Cost

Month	Mcf Used	Cost
November 22 - December 27	34.0	\$ 232
December 27 - January 28	42.7	\$ 318
January 28 - February 28	40.4	\$ 341
March 1 - March 31	21.8	\$ 247
April 1 - April 30	10.6	\$ 103
May 1 - May 31	2.1	\$ 28
June 1 - June 30	.4	\$ 14
<b>Annual Total</b>	<b>152.0 Mcf</b>	<b>\$1283</b> (@ \$ 8.40 per Mcf)

## BOTTOM LINE

“Recovery time is just so quick it is unbelievable.”

During the first full season of operation, energy efficient recovery of all internal sources of heat gain by THERMO-CYCLER System resulted in a seasonal heating cost of 20.6 cents per square foot based on an average gas cost of \$8.<sup>40</sup> per Mcf. According to the building owner, “Recovery time is just so quick it is unbelievable.”



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