



THE OFFICE PROJECT



The office is located at 1100 Davis Dr. in Newmarket Ontario and is the main business of the treasurer of Redwell Canada Inc. It is approximately 30' x 25' in size (750 Sq Ft). Construction is block walls with no insulation (it is a centre unit with only 1 outside wall) and covered with ½" drywall on metal studs. The front windows are single pane glass so the front of the office is extremely cold.

REDWELL CANADA INC.

2 Robert Speck Parkway, Suite 750, Mississauga, Ontario, Canada, L4Z 1H8, Tel. (416) 607-6807



We decided to go with 5 600Watt panels in the ceiling. To supplement the front offices we put a 900Watt in the reception area and a 600 Watt in the other.



An inline thermostat was installed and the 6 220V units are all on one 15amp circuit. The other 2 units are on separate plug in thermostats.

The natural gas was disconnected in July of 2007 and the heaters were installed on the 1st of November, 2007.

As the season progresses we will update the spreadsheet with the results of tests comparing electric and natural gas usage from 2006/2007 heating season and the 2007/2008 season.

We feel that the results will show that radiant heating is a good alternative to gas in the Canadian winter climate.

Please check the results at <http://www.redwell.ca/officetest.pdf>

Comments March 05, 2008

This has been a good winter to run this test/conversion. It has been/is an extremely cold and long winter. The heaters have behaved as anticipated and maintained the office temperature evenly throughout. It was not necessary to have units in every room as the 2 hall units

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provided enough energy to heat the rooms off them. There is no heat in the kitchen (10x10), the bathroom (6x6) or the copier room (8x7). The air temperature in these rooms is 19-20Cel (68F). The thermostat is set at 22 Cel (72F) during the day and 18 at night. During February because I hate the cold and have a cold I kept the setting on hold at 24C (75F) for the whole month. I have not received February's hydro bill yet but will post it in the results as soon as I have it.

As you can see in the results this winter has been colder than last winter and yet the heat/electric bills are close to the previous year. When we add in the 5 months delivery charges for gas I think we will find that the Redwell units will be cheaper to operate than natural gas.

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