

MODEL HOME (98 Cyr, Dieppe NB)  
Furnace Oil Consumption  
September 2005 - August 2006 (Year 2)

Two Storey House: Main Floor 816  
Second Floor 752  
Rec. Room 304  
Total Living Space: 1872 sq/ft

| Month:                            | September      | October         | November        | December        | January         | February        | March           | April           | May             | June           | July           | August         | YEAR T           |
|-----------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|------------------|
| Date/Time:                        | Sept. 30; 7pm  | Oct. 31; 10pm   | Nov. 30; 10pm   | Dec. 31; 7pm    | Jan. 31; 10pm   | Feb. 28; 8am    | Mar. 31; 8am    | Apr. 30; 10pm   | May 31; 8am     | July 1; 9am    | Aug. 1; 11am   | Aug. 31; 8am   | Energy Cost (\$) |
| <b>Oil fired Hot Water Heater</b> |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |
| Meter reading (cumulative)        | 562.2          | 605.3           | 653.9           | 705.5           | 759.6           | 810.9           | 865.4           | 915.9           | 969.5           | 1013.4         | 1044.0         | 1080.2         |                  |
| Litres of oil consumed            | <b>34.4</b>    | <b>43.1</b>     | <b>48.6</b>     | <b>51.6</b>     | <b>54.1</b>     | <b>51.3</b>     | <b>54.5</b>     | <b>50.5</b>     | <b>53.6</b>     | <b>43.9</b>    | <b>30.6</b>    | <b>36.2</b>    | <b>552.4</b>     |
| Price per litre                   | 0.769          | 0.769           | 0.769           | 0.769           | 0.739           | 0.739           | 0.739           | 0.739           | 0.739           | 0.739          | 0.739          | 0.739          | (litres)         |
| Cost per month for oil            | \$26.45        | \$33.14         | \$37.37         | \$39.68         | \$39.98         | \$37.91         | \$40.28         | \$37.32         | \$39.61         | \$32.44        | \$22.61        | \$26.75        | <b>\$413.55</b>  |
| <b>Adams 96-97% Efficient Co</b>  |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |
| Meter reading (cumulative)        | 1374.4         | 1441.5          | 1561.5          | 1783.8          | 2036.7          | 2270.8          | 2474.5          | 2573.3          | 2593.3          | 2596.2         | 2596.2         | 2596.2         |                  |
| Litres of oil consumed            | <b>2.6</b>     | <b>67.1</b>     | <b>120.0</b>    | <b>222.3</b>    | <b>252.9</b>    | <b>234.1</b>    | <b>203.7</b>    | <b>98.8</b>     | <b>20.0</b>     | <b>2.9</b>     | <b>0</b>       | <b>0</b>       | <b>1224.4</b>    |
| Price per litre                   | 0.769          | 0.769           | 0.769           | 0.769           | 0.739           | 0.739           | 0.739           | 0.739           | 0.739           | 0.739          | 0.739          | 0.739          | (litres)         |
| Cost per month for oil            | \$2.00         | \$51.60         | \$92.28         | \$170.95        | \$186.89        | \$173.00        | \$150.53        | \$73.01         | \$14.78         | \$2.14         | \$ -           | \$ -           | <b>\$917.19</b>  |
| <b>Electricity</b>                |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |
| Meter reading (cumulative)        | 8112           | 8625            | 9197            | 9988            | 10754           | 11404           | 12019           | 12513           | 12937           | 13338          | 13840          | 14282          |                  |
| KWH consumed                      | <b>340</b>     | <b>513</b>      | <b>572</b>      | <b>791</b>      | <b>766</b>      | <b>650</b>      | <b>615</b>      | <b>494</b>      | <b>424</b>      | <b>401</b>     | <b>502</b>     | <b>442</b>     | <b>6510</b>      |
| Price per KWH                     | 0.0837         | 0.0837          | 0.0837          | 0.0837          | 0.0837          | 0.0837          | 0.0837          | 0.0837          | 0.0837          | 0.0837         | 0.0904         | 0.0904         | (kwh)            |
| Cost for KWH used                 | \$28.46        | \$42.94         | \$47.88         | \$66.21         | \$64.11         | \$54.41         | \$51.48         | \$41.35         | \$35.49         | \$33.56        | \$45.38        | \$39.96        |                  |
| Plus: monthly service charge      | \$17.74        | \$17.74         | \$17.74         | \$17.74         | \$17.74         | \$17.74         | \$17.74         | \$17.74         | \$17.74         | \$17.74        | \$19.16        | \$19.16        |                  |
| Total Electricity cost            | \$46.20        | \$60.68         | \$65.62         | \$83.95         | \$81.85         | \$72.15         | \$69.22         | \$59.09         | \$53.23         | \$51.30        | \$64.54        | \$59.12        | <b>\$766.93</b>  |
| <b>Total Energy Cost</b>          | <b>\$74.65</b> | <b>\$145.42</b> | <b>\$195.27</b> | <b>\$294.58</b> | <b>\$308.71</b> | <b>\$283.06</b> | <b>\$260.03</b> | <b>\$169.42</b> | <b>\$107.62</b> | <b>\$85.89</b> | <b>\$87.15</b> | <b>\$85.87</b> | <b>\$2097.68</b> |
| (excluding 15% HST)               |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |

MODEL HOME (98 Cyr, Dieppe NB)  
Furnace Oil Consumption  
September 2004 - August 2005 (Year 1)

Two Storey House: Main Floor 816  
Second Floor 752  
Rec. Room 304  
Total Living Space: 1872 sq/ft

| Month:                            | Sept. 10-30               | October         | November        | December        | January         | February        | March           | April           | May             | June           | July           | August         | YEAR T           |
|-----------------------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|------------------|
| Date/Time:                        | Sept. 10-30 (first month) | Nov. 1; 7am     | Nov. 30; 10pm   | Dec. 31; 9pm    | Jan. 31; 11pm   | Feb. 28; 11pm   | Mar. 31; 11pm   | May 1; 9am      | May 31; 10pm    | Jun. 30; 9pm   | Aug. 1; 9am    | Aug. 31; 11pm  | Energy Cost (\$) |
| <b>Oil fired Hot Water Heater</b> |                           |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |
| Meter reading (cumulative)        | 6.4                       | 56.0            | 102.7           | 151.7           | 203.2           | 251.2           | 306.9           | 362.4           | 414.8           | 464.2          | 493.3          | 527.8          |                  |
| Litres of oil consumed            | <b>32.0</b>               | <b>49.6</b>     | <b>46.7</b>     | <b>49.0</b>     | <b>51.5</b>     | <b>48.0</b>     | <b>55.7</b>     | <b>55.5</b>     | <b>52.4</b>     | <b>49.4</b>    | <b>29.1</b>    | <b>34.5</b>    | <b>553.4</b>     |
| Price per litre                   | 0.569                     | 0.569           | 0.569           | 0.569           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579          | 0.579          | 0.579          | (litres)         |
| Cost per month for oil            | \$18.21                   | \$28.22         | \$26.57         | \$27.88         | \$29.82         | \$27.79         | \$32.25         | \$32.13         | \$30.34         | \$28.60        | \$16.85        | \$19.98        | <b>\$318.65</b>  |
| <b>Adams 96-97% Efficient Co</b>  |                           |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |
| Meter reading (cumulative)        | 9.7                       | 85.2            | 252.6           | 492.8           | 761.3           | 989.1           | 1182.6          | 1286.6          | 1364.4          | 1371.8         | 1371.8         | 1371.8         |                  |
| Litres of oil consumed            | <b>9.7</b>                | <b>75.5</b>     | <b>167.4</b>    | <b>240.2</b>    | <b>268.5</b>    | <b>227.8</b>    | <b>193.5</b>    | <b>104</b>      | <b>77.8</b>     | <b>7.4</b>     | <b>0</b>       | <b>0</b>       | <b>1371.8</b>    |
| Price per litre                   | 0.569                     | 0.569           | 0.569           | 0.569           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579          | 0.579          | 0.579          | (litres)         |
| Cost per month for oil            | \$5.52                    | \$42.96         | \$95.25         | \$136.67        | \$155.46        | \$131.90        | \$112.04        | \$60.22         | \$45.05         | \$4.28         | \$ -           | \$ -           | <b>\$786.34</b>  |
| <b>Electricity</b>                |                           |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |
| Meter reading (cumulative)        | 1260                      | 1942            | 2657            | 3465            | 4305            | 4975            | 5680            | 6252            | 6791            | 7199           | 7494           | 7772           |                  |
| KWH consumed                      | <b>424</b>                | <b>682</b>      | <b>715</b>      | <b>808</b>      | <b>840</b>      | <b>670</b>      | <b>685</b>      | <b>592</b>      | <b>539</b>      | <b>408</b>     | <b>295</b>     | <b>278</b>     | <b>6936</b>      |
| Price per KWH                     | 0.079                     | 0.079           | 0.079           | 0.079           | 0.079           | 0.079           | 0.079           | 0.0813          | 0.0813          | 0.0813         | 0.0837         | 0.0837         | (kwh)            |
| Cost for KWH used                 | \$33.50                   | \$53.88         | \$56.49         | \$63.83         | \$66.36         | \$52.93         | \$54.12         | \$48.13         | \$43.82         | \$33.17        | \$24.69        | \$23.27        |                  |
| Plus: monthly service charge      | \$16.72                   | \$16.72         | \$16.72         | \$16.72         | \$16.72         | \$16.72         | \$16.72         | \$17.22         | \$17.22         | \$17.22        | \$17.74        | \$17.74        |                  |
| Total Electricity cost            | \$50.22                   | \$70.60         | \$73.21         | \$80.55         | \$83.08         | \$69.65         | \$70.84         | \$65.35         | \$61.04         | \$50.39        | \$42.43        | \$41.01        | <b>\$758.36</b>  |
| <b>Total Energy Cost</b>          | <b>\$73.94</b>            | <b>\$141.78</b> | <b>\$195.03</b> | <b>\$245.11</b> | <b>\$268.36</b> | <b>\$229.34</b> | <b>\$215.12</b> | <b>\$157.70</b> | <b>\$136.43</b> | <b>\$83.28</b> | <b>\$59.28</b> | <b>\$60.98</b> | <b>\$1866.35</b> |
| (excluding 15% HST)               |                           |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                  |

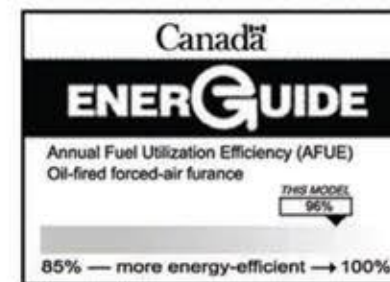
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Less emissions

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- \* Stainless steel heat exchanger with molded pyro-ceramic combustion chamber designed to heat up instantly on fire-up.
- \* INTERburner oil burner with exclusive "Turbo Reversed Air" insures smooth, positive ignition and uniform high temperature for maximum performance and whisper quiet operation, or optional *Beckett* NX burner.
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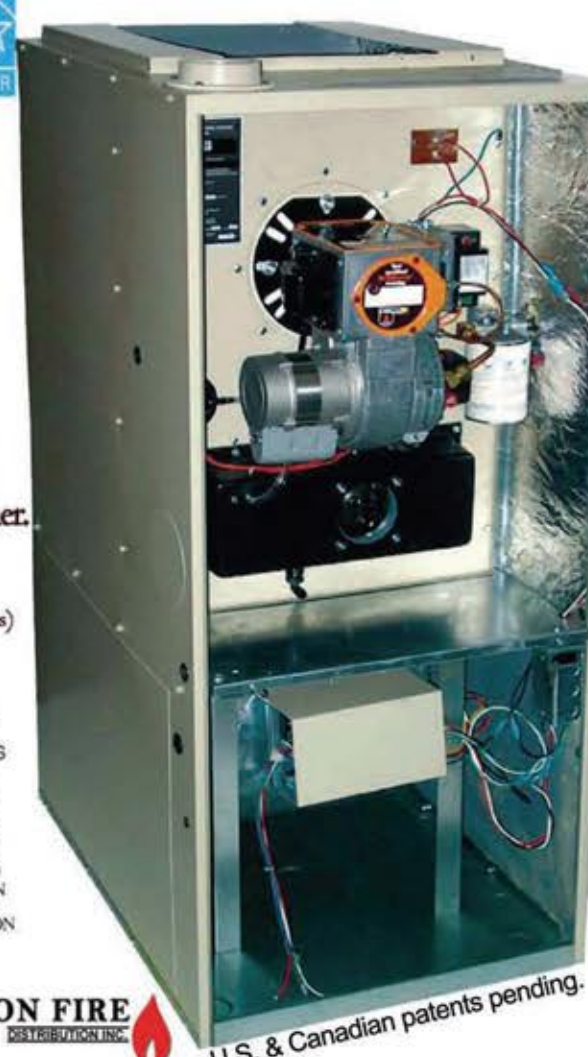


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# Welcome to our model home equipped with a new condensing oil fired furnace. BY WILLIAM GOULD

**C**o-op Fuels has partnered with a homeowner to install "The World's Most Efficient Furnace" in their new 1872 square foot home built in the summer of 2004. The model home, located at 98 Cyr Street in Dieppe, NB, is home to a couple and every second weekend, two children.

The mission for this house was simple—to provide the homeowners with a modern heating system that is safe, reliable, cost-effective, energy efficient, environmentally friendly and self sufficient in the event of a power failure.

To meet these criteria, the house was equipped with an ultra-modern condensing oil-fired furnace—a new technology for warm air furnaces manufactured by ADAMS from Dragon Fire (Website: [www.edragonfire.com](http://www.edragonfire.com)) This Energy Star rated unit has an efficiency rating of 96-98%. Also, it produces near zero emissions and doesn't require a chimney because the limited amount of emissions can vent through a 3 inch PVC pipe. The PVC vent pipe can actually be touched, as it's barely lukewarm. To view the monthly costs of heating our model home, go to: [http://www.co-opfuels.com/english/modelHome04\\_05.htm](http://www.co-opfuels.com/english/modelHome04_05.htm) for 2004-2005 [http://www.co-opfuels.com/english/modelHome05\\_06.htm](http://www.co-opfuels.com/english/modelHome05_06.htm) for 2005-2006 [http://www.co-opfuels.com/english/modelHome06\\_07.htm](http://www.co-opfuels.com/english/modelHome06_07.htm) for 2006-2007

## HOT WATER

This model home has an oil-fired hot water heater, which is "direct vent" (no chimney required). It can heat the water up to FIVE times faster than electricity and up to TWICE as fast as natural gas. It takes approximately 15 minutes and 0.7 liters of oil to heat 32 gallons of water. An average of 50 liters of oil per month is required to meet most family's hot water needs.

## LITRE CONSUMPTION

Oil meters have been installed on the hot water heater and the furnace so the oil consumption of this model home can be monitored for three years. During the first year – September 2004 to August 2005 – the water heater has consumed 553.4 liters. The furnace consumed 1371.8 liters. The average total annual liters are projected to be 2000 for this home.



## OIL TANK

For added security and peace of mind, this model home is equipped with a modern double wall oil tank (galvanized tank on the outside with a polyethylene inner tank), which is secure and has no lifetime limit.

## THERMOSTATS

Electronic thermostats have been installed in this model home to efficiently control the temperature of the home. Owners can preset different temperatures for different times during the day. For example, 20 degrees at 5:30 a.m. so the home is comfortably warm when the homeowners wake up, 18 degrees at 8 a.m. when the homeowners leave for work, 20-21 degrees at 4 p.m. before they arrive home from work and 18 degrees around 10 p.m. before the homeowners go to bed.

## POWER FAILURE

In the event of a power failure, dual electrical panels have been installed in the model home. The second panel can be powered with electricity by a stand-alone generator in the garage. During a power failure, these panels ensure full functionality of the heating system, hot water, refrigerator, microwave oven and all lights/plug outlets in the kitchen/dining, master bedroom and bathroom.

## TODAY'S OIL HEAT, Clean burning and house warming.

| MODEL HOME (98 Cyr, Dieppe NB)        |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                | Two Storey House: Main Floor 816 |        |                  |
|---------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------------------------|--------|------------------|
| Furnace Oil Consumption               |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                | Second Floor 752                 |        |                  |
| September 2004 - August 2005 (Year 1) |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                | Rec. Room 304                    |        |                  |
|                                       |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                | Total Living Space: 1872 sq/ft   |        |                  |
| Month:                                | Sept. 10-30    | October         | November        | December        | January         | February        | March           | April           | May             | June           | July           | August         | YEAR T                           | Energy | Cost (\$)        |
| Date/Time:                            | (first month)  | Nov. 1; 7am     | Nov. 30; 10pm   | Dec. 31; 9pm    | Jan. 31; 11pm   | Feb. 28; 11pm   | Mar. 31; 11pm   | May 1; 9am      | May 31; 10pm    | Jun. 30; 9pm   | Aug. 1; 9am    | Aug. 31; 11pm  |                                  |        |                  |
| <b>Oil fired Hot Water Heater</b>     |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                                  |        |                  |
| Meter reading (cumulative)            | 6.4            | 56.0            | 102.7           | 151.7           | 203.2           | 251.2           | 306.9           | 362.4           | 414.8           | 464.2          | 493.3          | 527.8          |                                  |        |                  |
| Litres of oil consumed                | 32.0           | 49.6            | 46.7            | 49.0            | 51.5            | 48.0            | 55.7            | 55.5            | 52.4            | 49.4           | 29.1           | 34.5           | 553.4                            |        |                  |
| Price per litre                       | 0.569          | 0.569           | 0.569           | 0.569           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579          | 0.579          | 0.579          |                                  |        | (litres)         |
| Cost per month for oil                | \$18.21        | \$28.22         | \$26.57         | \$27.88         | \$29.82         | \$27.79         | \$32.25         | \$32.13         | \$30.34         | \$28.60        | \$16.85        | \$19.98        |                                  |        | \$318.65         |
| <b>Adams 96-97% Efficient Co</b>      |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                                  |        |                  |
| Meter reading (cumulative)            | 9.7            | 85.2            | 252.6           | 492.8           | 761.3           | 989.1           | 1182.6          | 1286.6          | 1364.4          | 1371.8         | 1371.8         | 1371.8         |                                  |        |                  |
| Litres of oil consumed                | 9.7            | 75.5            | 167.4           | 240.2           | 268.5           | 227.8           | 193.5           | 104             | 77.8            | 7.4            | 0              | 0              | 1371.8                           |        |                  |
| Price per litre                       | 0.569          | 0.569           | 0.569           | 0.569           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579           | 0.579          | 0.579          | 0.579          |                                  |        | (litres)         |
| Cost per month for oil                | \$5.52         | \$42.96         | \$95.25         | \$136.67        | \$155.46        | \$131.90        | \$112.04        | \$60.22         | \$45.05         | \$4.28         | \$-            | \$-            |                                  |        | \$786.34         |
| <b>Electricity</b>                    |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                                  |        |                  |
| Meter reading (cumulative)            | 1260           | 1942            | 2657            | 3465            | 4305            | 4975            | 5660            | 6252            | 6791            | 7199           | 7494           | 7772           |                                  |        |                  |
| KWH consumed                          | 424            | 682             | 715             | 808             | 840             | 670             | 685             | 592             | 539             | 408            | 295            | 278            | 6936                             |        |                  |
| Price per KWH                         | 0.079          | 0.079           | 0.079           | 0.079           | 0.079           | 0.079           | 0.079           | 0.0813          | 0.0813          | 0.0813         | 0.0837         | 0.0837         |                                  |        | (kwh)            |
| Cost for KWH used                     | \$33.50        | \$53.88         | \$56.49         | \$63.83         | \$66.36         | \$52.93         | \$54.12         | \$48.13         | \$43.82         | \$33.17        | \$24.69        | \$23.27        |                                  |        |                  |
| Plus: monthly service charge          | \$16.72        | \$16.72         | \$16.72         | \$16.72         | \$16.72         | \$16.72         | \$16.72         | \$17.22         | \$17.22         | \$17.22        | \$17.74        | \$17.74        |                                  |        |                  |
| Total Electricity cost                | \$50.22        | \$70.60         | \$73.21         | \$80.55         | \$83.08         | \$69.65         | \$70.84         | \$65.35         | \$61.04         | \$50.39        | \$42.43        | \$41.01        |                                  |        | \$758.36         |
| <b>Total Energy Cost</b>              | <b>\$73.94</b> | <b>\$141.78</b> | <b>\$195.03</b> | <b>\$245.11</b> | <b>\$268.36</b> | <b>\$229.34</b> | <b>\$215.12</b> | <b>\$157.70</b> | <b>\$136.43</b> | <b>\$83.28</b> | <b>\$59.28</b> | <b>\$60.98</b> |                                  |        | <b>\$1866.35</b> |
| (excluding 15% HST)                   |                |                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                                  |        |                  |