Energy Efficient Natural Gas Furnace

Modern, high-efficiency natural gas furnaces achieve incredible operating efficiencies as high as 90 to 97% AFUE (Annual Fuel Utilization Efficiencies). Therefore, today's energy efficient equipment can prove to be a sound investment by providing you 90 to 97 cents worth of heat into the living area for each dollar of gas purchased.

A 90% or higher AFUE furnace can be up to 15% more efficient than standard models and 30 to 50% more efficient than models that are 15 to 20 years old. Although an energy efficient product can be slightly more expensive to purchase up front, the cost difference will be paid back over time through lower energy bills.

Furthermore, by choosing the comfort of natural gas, you get a warm home all winter long. And it's reassuring knowing you're saving energy and money using the cleanest-burning and most energy efficient heating source.

Potential Savings from Updating to Energy Efficient Equipment

<table>
<thead>
<tr>
<th>Size of home (square feet)</th>
<th>Annual Energy Savings (therms)</th>
<th>Annual Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,300, 1-story</td>
<td>130 to 220</td>
<td>$150 to $260</td>
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<tr>
<td>1,700, 1-story</td>
<td>160 to 270</td>
<td>$190 to $320</td>
</tr>
<tr>
<td>2,100, 2-story</td>
<td>190 to 310</td>
<td>$220 to $370</td>
</tr>
<tr>
<td>3,000, 2-story</td>
<td>250 to 410</td>
<td>$290 to $480</td>
</tr>
<tr>
<td>4,000, 3-story</td>
<td>320 to 530</td>
<td>$370 to $620</td>
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Estimated costs based on updating a furnace that is more than 15 years old. Savings will vary based on age of home, the furnace’s efficiency rating, levels of insulation, thermostat settings and the cost of natural gas.

Benefits of a Condensing Furnace

Condensing furnaces have the added benefit of being able to use air from outside your home for combustion. A separate pipe is installed to bring outside air directly to your furnace, which prevents cold air from being pulled into your house every time your furnace runs. This feature will help reduce your heating costs while creating better comfort by reducing cold drafts. Additionally, for safety reasons, it is critical to provide uncontaminated air for your furnace.

Make sure your contractor installs a condensing furnace with two pipes to the outside of the house; one to bring fresh air to the furnace, the other to exhaust gas from the furnace.

Benefits of Multi-Stage Firing

Your furnace must have enough capacity to meet your heating needs on the coldest day of winter. However, for most of the heating season the typical furnace provides more heating capacity than you need. Unlike a furnace with single-stage firing, that is either firing at full output or completely off, a furnace with multi-stage firing can selectively turn some burners off when the full furnace output is not needed, saving you energy and money.

Programmable Thermostat

Capture more savings!

An ENERGY STAR® qualified programmable thermostat allows you to automatically dial down the temperature while you’re away or asleep. You can save up to 5% per year by turning back your thermostat 5 degrees for eight hours a day.
Efficient Use of Electricity
A gas furnace uses electricity to run the fan blower motor. Furnaces equipped with an electronically commutated motor (ECM) have lower annual operating costs and can save you $40 to $300 per year, depending on how you currently use your furnace fan. If you currently run your furnace fan all the time, an ECM will offer you the most savings. Multi-stage ECM furnaces not only save you money, they are usually much quieter and less prone to producing unpleasant drafts.

Proper Installation
Your new furnace must be installed properly to ensure that it operates safely and efficiently. The contractor should adjust the airflow so the furnace fan setting is matched to the ductwork and furnace characteristics. An improperly installed furnace can result in higher energy costs and a less comfortable home.

Operating Tips
How you operate your heating system will influence how much energy you use. The following tips will help you lower your heating bill and ensure that your furnace functions safely and efficiently.

- Turn down the thermostat a few degrees when you are away or sleeping.
- Use a programmable thermostat to adjust the temperature automatically, depending on the time of the day and the day of the week.
- Regularly clean or replace furnace filters.
- Make sure registers in occupied rooms aren’t blocked by furniture or draperies.
- Have your furnace tuned up by a heating professional annually unless the manufacturer indicates otherwise.

Other Resources
Vectren’s online Home Energy Audit will help you pinpoint opportunities for energy savings, and its Bill Analyzer, which uses actual billing data, will help you gauge why bill amounts may vary from month to month. Use these tools at www.vectren.com.

The ENERGY STAR program provides information on energy efficient products that meet ENERGY STAR standards. You may even qualify for a tax credit based upon the energy efficiency rating of your new furnace. Learn more at www.energystar.gov or call 1-888-782-7937.

Typical Annual Heating Costs in Indiana
Based on Rated Furnace Efficiency

Gas costs calculated at $1.00 per therm.