

# LENNOX

A BETTER PLACE™

*Why should I choose a variable speed furnace for my home?*

## WE'RE GLAD YOU ASKED!

There are many reasons for choosing a variable speed furnace, but the main reason is **comfort**. The term “variable speed” refers to the furnace’s fan motor, which moves at different speeds to precisely control the flow of heated and cooled air throughout your home. Better airflow control means a better balance of temperature and humidity.



### HOW IT WORKS

For any furnace, providing maximum comfort means achieving the proper amount of airflow. This is true for both heating and cooling operation.



Unlike conventional single-speed motors, a variable speed motor runs at a wide range of speeds. Using intelligent technology, it continually monitors incoming data from your heating and cooling system, and it automatically makes the adjustments necessary to meet your comfort needs. It varies the amount of air circulated, compensating for factors like dirty filters by increasing speed. Put simply, it delivers just the right amount of air for the right level of heating and cooling comfort.

As an added bonus, a variable speed motor gradually ramps up to full speed. This eliminates the sudden, noisy blast of air that’s associated with standard furnace motors. And, during cooling operation, it allows the air conditioner to remove more moisture from the air.

## MORE COMFORT AND EFFICIENCY, WITH LESS SOUND



**More comfort.** Lennox' variable speed home comfort systems, such as Dave Lennox *Signature*<sup>™</sup> Collection G32V and G60V gas furnaces, precisely control airflow to provide better temperature control, humidity control and air distribution. A higher degree of precision means a higher level of comfort.



**More efficiency.** Compared to a conventional single-speed furnace, a Lennox variable speed furnace performs better and uses about two-thirds less electricity. During cooling operation, variable speed technology typically results in an efficiency gain of about 1 SEER (Seasonal Energy Efficiency Ratio). The higher the SEER, the lower your utility bills.



**Less sound.** A variable speed furnace also ensures quieter operation. At Lennox, we call this SilentComfort<sup>™</sup>—a technology that combines variable speed operation with sound reducing design. The furnace slowly ramps up to speed, so there's no sudden "kick" or blast of air at startup.

## BETTER INDOOR AIR QUALITY



**Cleaner air.** In addition to delivering quiet, consistent comfort and efficiency, a variable speed furnace can also help clean the air in your home. When the furnace is not heating or cooling and the fan is in constant operation (indicated by the "Fan" setting on your thermostat), a Lennox variable speed furnace will continue to slowly and inexpensively circulate air throughout your home. This allows your filters to capture more contaminants (because air is constantly passing through them), so you can breathe easier.



**Enhanced humidity control.** When moisture levels are high, there's a higher potential for mold and other pollutant problems. Compared to a single-speed furnace, a variable speed furnace is more effective at drawing moisture from the air for improved indoor air quality and comfort.

### CALCULATE YOUR ENERGY SAVINGS AND SAVE HUNDREDS OF DOLLARS ON YOUR ANNUAL ENERGY BILL

Unlike conventional blower motors, the variable speed motor will typically use only about 75 watts of power per hour compared to a conventional blower that uses about 400 watts. Thus, over the course of one year, you can expect to save hundreds of dollars on your electric bill with a variable speed motor. Use this simple formula below to calculate your potential energy savings, based upon your existing power costs per kilowatt hour:

**Example:** 2,847 kilowatts\* x \$.80/kW/h = up to \$240 in energy savings per year.

**Note:** Savings based on homeowner HVAC system that is always operating either in heating, cooling or "Fan" mode.

\*Average kilowatts saved per year is calculated by saving 325 watts of power per hour with a variable speed motor using 75 watts per hour versus conventional blower motors using 400 watts per hour, times 8,760 hours in a year, equals 2,847,000 watts/1000 = 2,847 kilowatts.

**LENNOX**<sup>®</sup>  
HOME COMFORT SYSTEMS

*A better place*<sup>™</sup>

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