

FRIGIDAIRE



*Comfort* SYSTEMS

95.1% & 96% AFUE Two-Stage Gas Furnaces

# TOTAL HOME *Comfort* AND WHAT IT MEANS TO YOU

Total home comfort depends on many variables. Variables such as your home's square footage, number of floors, the sun's exposure on your home, the area of the country your home is located in, materials your home was constructed from, and your own personal comfort choices.

Our full line of gas furnaces and accessories allow you to maintain total home comfort year round.

## *What having a 95.1% or 96% AFUE gas furnace means.*

Furnaces are measured using AFUE (Annual Fuel Utilization Efficiency). The higher the AFUE rating, the more energy efficient your system is and the lower your energy costs. As an example, the Frigidaire 90% line of furnaces will deliver a minimum of 90% efficient heat. Compare this to an older furnace that may only deliver 60% efficiency. As you can see, new technology is all about saving you money for years to come.

## *Frigidaire will take care of the comfort.*

### ▲ **Delivering peace of mind furnace after furnace.**

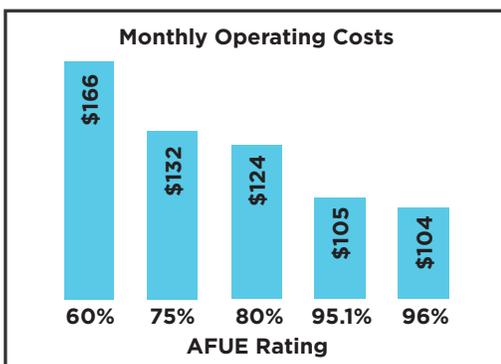
Every furnace is triple checked at each manufacturing stage. This is an average of 234 quality checks as your unit was built. In addition, all electrical and mechanical components are 100% fired and tested on the manufacturing line.

### ▲ **Extending the life of your furnace.**

High quality does not just happen. It must be engineered from the beginning. Our SmartLite® control board is capable of learning the igniter's heat-up characteristics and then adapting the ignition time to the furnace's needs. As a result, SmartLite energizes the igniter appropriately and extends the life of the igniter.



## *Energy Savings*



Dollar amounts computed at \$.092 ccf, for 2,500 full-load heating hours and a system rated at 60,000 Btuh. Actual costs vary depending on climate conditions, fuel rates, and patterns of usage according to individual lifestyle. There are also many opportunities for significant governments and utility rebates based on furnace AFUE.

### ▲ **Total comfort never felt so good or sounded so quiet.**

Designed so in-shot burners, inducer location, air vents and cabinet insulation all work in tandem to produce not only cleaner air but quieter operation.

### ▲ **Aesthetically pleasing and designed for easy care.**

Smooth and practical lines make your Frigidaire furnace eye-appealing. All units receive a glossy, powder-paint finish for increased durability and corrosion resistance.

### ▲ **Built to last.**

Heavy-gauge aluminized steel is used for long life, and the heat exchanger comes with a limited lifetime warranty.

## The benefits of two-stage operation.

Two-stage furnaces operate like two separate furnaces to maintain a more consistent comfort level throughout your home. During the first stage, which is about 80% of the time, the unit will use about 68% of its heating capacity. It will always start in the first stage and attempt to meet the heating demand. This reduced capacity is enough to efficiently warm your home on mild winter days. When the temperatures drop, the furnace automatically adjusts and enters the second stage to meet the increased heating demands. Thanks to two-stage technology, the temperature in your home will only vary a couple of degrees, and you will experience quiet comfort.

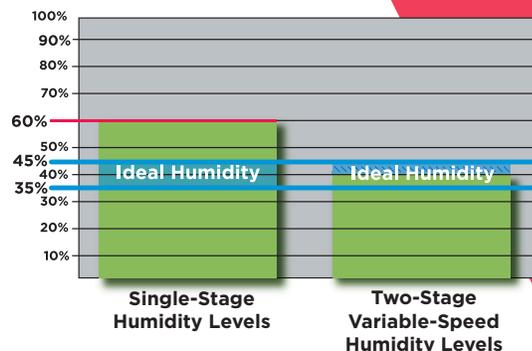
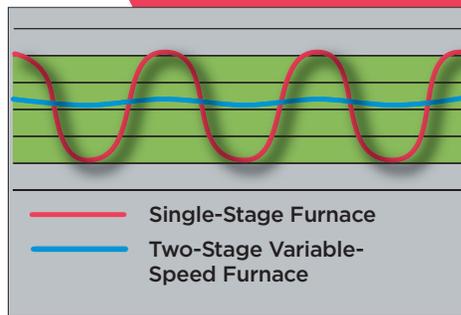
## The benefits of variable-speed furnaces.

Improved air filtration is delivered with two-stage, variable-speed so you'll breathe a lot easier. The unique variable-speed motor improves humidity control and operates quietly. Since the fan will operate slower during low-stage heating, it produces less noise. In fact, in most installations it is practically silent. Variable-speed technology also allows the motor to ramp up gently, eliminating uncomfortable temperature swings.

## The benefits of an ECM direct-drive motor.

ECM blower motor technology under normal operating conditions ensures constant comfort for the homeowner because the motor will automatically maintain its programmed level of airflow even if there are dynamic changes in static pressure. Better indoor air quality can be achieved quietly and inexpensively with the ECM blower motor because it can be set to run continuously at reduced airflow levels, between heating or cooling cycles. This allows the air to be filtered without excessive drafts and without sacrificing efficiency.

### Temperature Swing Comparison



	Two-Stage	Dedicated Upflow	Upflow/Horizontal	Downflow	ECM Motor	ecoLogic®	ENERGY STAR® Certified	iQ Drive® Ready
<b>96% AFUE Variable-Speed</b>	X	X	N/A	X	X	X	X	iQ Drive® Ready
<b>96% AFUE Fixed-Speed</b>	X	X	N/A	X	X	N/A	X	N/A
<b>95.1% AFUE* Variable-Speed</b>	X	N/A	X	N/A	X	X	X	iQ Drive® Ready

\* If installed in SCAQMD only: These furnaces do not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit (14 ng/J), and thus are subject to a mitigation fee of up to \$450. These furnaces are not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).

## Energy definitions:

### AFUE (Annual Fuel Utilization Efficiency)

Measures the amount of heat actually delivered to your house compared to the amount of fuel supplied to the furnace. Thus, a furnace that has an 80% AFUE rating converts 80% of the fuel supplied to heat - the other 20% is lost out of the chimney. As ratings increase, so does unit efficiency.



Variable-speed Frigidaire gas furnaces are iQ Drive® Ready, meaning they are built to work seamlessly with a Frigidaire iQ Drive air conditioner or heat pump rated at up to 20 SEER. See your Frigidaire contractor for details on iQ Drive systems.

# Warranty



Frigidaire offers an incredible customer promise to protect your investment. When registered, every product offers one of the best warranties in the industry – a 10-year limited warranty on all parts and our Comfort Quality Pledge, which states that if your heat exchanger fails within the first 10 years, we will replace the entire unit. Speak to your Frigidaire contractor or visit us at [frigidairehvac.com](http://frigidairehvac.com) for warranty details.

## The technology inside: SmartLite® control board.

Your Frigidaire 95.1% & 96% AFUE gas furnace has been carefully designed and engineered to give you outstanding energy efficiency and years of trouble-free operation. All Frigidaire gas furnaces feature a SmartLite control board. A revolutionary computer within your furnace that learns the heat-up characteristics of the igniter and then adjusts automatically. This ensures reliable ignition and extends the life of the igniter.



Frigidaire gas furnaces employ hot surface ignition systems (HSI). These use an igniter that, when energized, rapidly generates an intense heat sufficient to ignite the fuel gas. These systems are safe, well proven and have a good track record. The SmartLite control board contains a program that varies the igniter heat-up time interval. It learns the heat-up characteristics of the igniter in the furnace by searching for the threshold of ignition failure. It then adjusts the heat-up interval on the next trial accordingly.

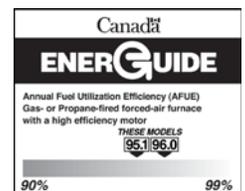
This upgrade has been accomplished by microchip software reprogramming. The introduction of this control represents a significant advance in HSI furnace technology.

Only the most energy-efficient, most environmentally responsible products receive our ecoLogic® seal of quality. Frigidaire two-stage, variable-speed gas furnaces rated 95.1% efficient or higher meet our ecoLogic requirements for ultra-energy efficiency.



ENERGY STAR® certification is awarded to products designed to reduce energy consumption and utility costs. To qualify, gas furnaces must have an AFUE of 95% or higher for northern states, at least 90% AFUE for southern states, have an approved energy-efficient blower motor and cabinet air leakage of less than or equal to 2%.

For more information visit us at [frigidairehvac.com](http://frigidairehvac.com)



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