



# Carrier® Gas Furnaces



More comfort, more efficiency and a choice that's right for you



# Carrier Furnaces Engineered for FER Are Ready to Deliver the Comfort and Performance You Expect

Carrier has continued to lead by example since jump-starting the indoor comfort industry back in 1902. Taking every new challenge as an opportunity, we continue to deliver cutting-edge comfort solutions for homeowners across North America. Today, our re-designed gas furnace line meets the Department of Energy's (DOE) new Fan Energy Rating (FER) guidelines designed to reduce consumption of electricity by gas furnaces.

## What Do the New FER Standards Mean to You?



### Enhanced Comfort

- Depending upon the model, Carrier's redesigned gas furnaces offer a number of comfort-enhancing technologies including variable-speed airflow



### Money-Saving Efficiency

- The DOE estimates that FER-compliant furnaces can save consumers between \$300 and \$500 on average over the life of the furnace\*
- FER-compliant furnaces decrease electricity consumption by up to 46% compared to current models using PSC blower motors\*\*
- Because most gas furnace fans operate year-round as part of your cooling system, you could see electrical savings all year long
- The DOE estimates Americans might save more than \$9 billion in home electricity bills by 2030\*\*



### Reduced Carbon Footprint

- The DOE estimates that FER-compliant furnaces will help reduce harmful carbon pollution by up to 34 million metric tons – equivalent to the annual electricity use of 4.7 million homes through the year 2030\*\*

\* See Table 1.2 – Impacts of Energy Conservation Standards on Consumers of Residential Furnace Fans, <https://www.federalregister.gov/documents/2014/07/03/2014-15387/energy-conservation-program-for-consumer-products-energy-conservation-standards-for-residential>

\*\* <https://www.energy.gov/articles/new-energy-efficiency-standards-furnace-fans-reduce-carbon-pollution-help-americans-save>

## Which Furnace is Right for You?

Understanding how different gas furnaces manage efficiency and comfort can go a long way toward making your decision.



**Energy Management:** Compare AFUE\* ratings to see which furnaces operate most efficiently. The AFUE rating tells you what percentage of the gas is converted into heat for your home – the higher the better. With a 98% AFUE furnace, up to 98 cents of every dollar you spend on gas goes toward heating your home.

\*Annual Fuel Utilization Efficiency



**Comfort Management:** Comfort “stages” affect consistency of indoor temperatures. A single-stage furnace is the most basic model that offers on and off airflow; two-stage models offer high- and low-stage heating as conditions require; and, modulating furnaces offer multiple stages for more precise temperature control and more consistent comfort.



**Airflow Management:** The “blower” or fan in your furnace typically circulates air through the house all year long. With the energy saving motors of FER-compliant furnaces, you'll get more economical air filtration capabilities compared to previous PSC furnaces.



**Humidity Management:** To help cool your home, your air conditioner pulls heat and humidity out of indoor air, using the furnace blower to provide air circulation. A variable-speed furnace provides better humidity control because it operates on lower speeds for longer times. As a result, it spends more time pulling humidity out of the air than fixed-speed models.

# The Choice is Yours

Carrier offers a full lineup of furnaces across three performance tiers with a variety of patented, comfort-enhancing technologies. Your dealer can help you select the model that works best for you and your home.

## INFINITY<sup>®</sup> SYSTEM



### Energy Management

- Our highest efficiency models, up to 98.5% AFUE

### Comfort Management

- Modulating heating stages for more precise comfort to match conditions
- Two stages of heating (high and low) for consistent temperature control
- Comfort Heat Technology<sup>®</sup> manages heating stages for more consistent comfort

### Airflow Management

- Variable-speed constant airflow for quiet, even comfort
- Comfort Fan™ technology for continuous fan speed selection

### Humidity Management

- Ideal Humidity System™ technology for exceptional summertime humidity control\*\*
- SmartEvap™ technology adds a second line of defense against indoor humidity

## Performance<sup>™</sup> SERIES



### Energy Management

- Up to 96.5% AFUE

### Comfort Management

- Comfort Heat Technology<sup>®</sup> feature for consistent comfort
- Two stages of heating (high and low) for consistent temperature control
- Single-stage models for basic temperature and comfort management

### Airflow Management

- Variable-speed constant torque for quiet, even comfort
- Comfort Fan™ technology\*\* for continuous fan speed selection

### Humidity Management

- Ideal Humidity System™ technology for summertime humidity control\*\*
- SmartEvap™ technology adds a second line of defense against indoor humidity

## Comfort<sup>™</sup> SERIES



### Energy Management

- Efficient heating with up to 96.5% AFUE
- PowerHeat™ hot surface igniter eliminates gas-wasting pilot light

### Comfort Management

- Single-stage models for basic temperature and comfort management

### Airflow Management

- Fixed-speeds constant torque for basic air management
- Comfort Fan™ technology\* for continuous fan speed selection

### Humidity Management

- SmartEvap™ technology adds a second line of defense against indoor humidity

\*with a compatible control

\*\*when combined with specific air conditioner or heat pump model

# Completing Your Comfort Picture

As a key part of your year-round comfort system, Carrier® gas furnaces deliver comfort and efficiency, and have been redesigned for reduced electrical consumption and carbon emissions, in three distinct performance tiers:

	INFINITY <sup>®</sup> SYSTEM	Performance SERIES	Comfort SERIES
Comfort Fan™ technology**	✓	✓	✓
Humidity Control	Ideal Humidity System™ technology	Ideal Humidity System™ technology	X
SmartEvap™	✓	✓	✓
Stage Type	Modulating/Two-Stage	Two-Stage/Single-Stage	Single-Stage
Fan Motor	Variable-Speed Constant Airflow (VCA ECM)	Variable-Speed Constant Torque (VCT ECM)	Fixed-Speeds Constant Torque (FCT ECM)
Comfort Heat Technology®	✓	✓	X
AFUE Rating	80% - 90%	80% - 90%	80% - 90%
Recommended System Control	Infinity® System Control	Communicating Wi-Fi® Control	X

\*\*Comfort Fan™ technology controls fan speeds for customized comfort, even when the system is not actively heating or cooling. Wi-Fi® is a registered trademark of Wi-Fi Alliance Corporation.

## The Total Indoor Comfort System

Your Carrier dealer will recommend a system to meet your home-comfort needs and local weather environment.

- Infinity® Air Conditioner** provides reliable, high-efficiency cooling for long-lasting comfort and energy savings.
- Infinity® Gas Furnace** provides reliable, high-efficiency heating for long-lasting comfort and energy savings.
- Infinity® System Control** allows more precise temperature and humidity control along with programmable features to further customize your comfort.
- Zoning** sets different temperatures for up to eight different areas of your home for truly customized comfort and possible utility savings.
- Infinity® Air Purifier** improves air quality by capturing and killing select airborne bacteria and viruses and other irritating airborne pollutants in your home.†
- Humidifier** replenishes moisture to dry air.
- UV Lamp** helps inhibit the growth of contaminants on the evaporator coil, leaving your home with fresher indoor air.
- Ventilator** combines fresh outdoor air with conditioned indoor air for improved air quality – great for today’s tightly constructed home.
- Evaporator Coil** is matched with the proper outdoor unit to provide even more cooling efficiency and years of reliable service.



† Based on third-party testing (2012) showing 95% of particles size 1.0 to 3.0 microns captured and based on third-party testing (2012, 2007) showing >99% kill rate for common cold surrogate, Streptococcus pyogenes and human influenza.



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