

# Performance™ 80 Gas Furnace with Comfort Heat Technology® Feature



turn to the experts™ 



Performance™  
SERIES



Efficient Gas Furnace with 80% AFUE

## Indoor Air Quality

Temperature and humidity control are just two components to a truly comprehensive indoor comfort system. Improving the quality of the air in your home adds to your comfort while also protecting wood furnishings and flooring, and providing cleaner, fresher air for you to breathe.

Ask your Carrier® dealer about our complete line of indoor air quality products including the Infinity® Air Purifier, a whole-home humidifier, UV lamps, and fresh air ventilation.

The Infinity Air Purifier does more than simply capture airborne pollutants – its patented technology kills many allergens, bacteria, viruses and mold spores.



## A Gas Furnace Designed with Your Comfort in Mind



## Operational Efficiency

Annual Fuel Utilization Efficiency or AFUE is like gas mileage. The higher the gas mileage or AFUE rating, the more efficient the automobile or system is.

- The Performance™ 80 gas furnace has a rating of 80% AFUE.



# Things to Consider Before You Buy

## Comfort Heat Technology® Feature

When temperatures outside start to dip, maintain your indoor comfort with the Comfort Heat Technology feature. Ordinary furnaces warm your home with full-speed hot-air blasts followed by idle periods, causing the temperature to drop before the next heating cycle. Carrier's exclusive Comfort Heat Technology feature is a smart technology, accurately predicting the need for heating while cutting temperature swings in half.



The Comfort Heat Technology feature provides a nearly continuous flow of warmth in low-capacity operation for a steadier, more consistent indoor temperature. And, when extreme temperatures hit, the Comfort Heat Technology feature utilizes the high-capacity operation to quickly meet and maintain your comfort needs. Longer, gentler heating cycles combined with lower speeds help keep your utility costs

## Comfort

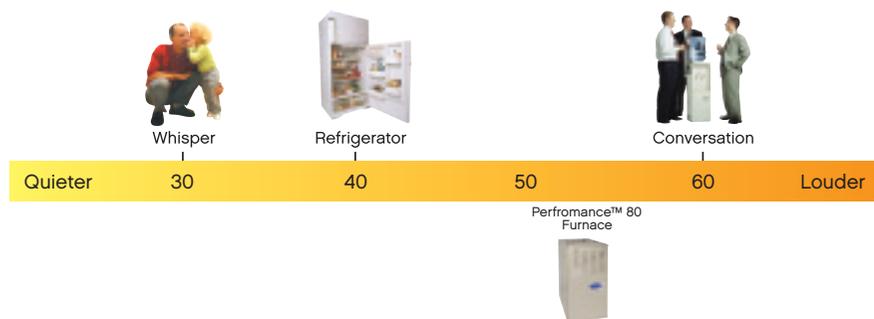
Carrier specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. Your Carrier® furnace can help you choose the best system for your home including Carrier-exclusive features that further enhance your indoor environment.

- Want to enjoy better comfort during the day but conserve energy at night? Customize your home's indoor environment to your household needs and personal preferences using the programmable Edge® Thermidistat™ control's seven-day programmable schedule.
- Add a compatible Carrier thermostat and enjoy ComfortFan™ technology which gives you even more control over your indoor comfort by allowing you to select your continuous fan speed from the thermostat.

## Sound

Carrier gas furnaces are designed for quiet operation and the Performance 80 is no exception. How does it stay so quiet? The QuietTech™ noise reduction system provides comfortable heat while generating very little noise in the process. In addition, an insulated cabinet helps to further isolate sound levels at their source. At Carrier, we believe home comfort shouldn't be at your ears' expense.

## Comparative Sound Ratings (decibels)



Carrier manufactures gas furnaces that are among the quietest in the industry. We test our products in a sound laboratory specifically built to resemble a typical residence. Sound level recordings produced at steady state, low fire operation (the most common operating condition), measured 3 feet from furnace. Other sound levels, mentioned for comparison, as published at <http://www.nidcd.nih.gov/health/hearing/ruler.asp>.

# Carrier® Systems for Unmatched Performance

**Humidifier** replenishes moisture to dry air.

**Evaporator Coil** removes heat from the air as it passes over the refrigerant. The evaporator coil is located with the indoor unit and is also referred to as the indoor coil.

**Gas Furnace** provides reliable, efficient heating for long-lasting comfort and energy savings.

**Air Cleaner** improves air quality by removing harmful and irritating airborne pollutants from your home.

**Ultraviolet Germicidal Lamp** inhibits the growth of contaminants on the indoor coil, leaving your home with cleaner, fresher indoor air.

**Ventilator** combines fresh outdoor air with conditioned indoor air for improved air quality and maximum efficiency – great for today's tightly constructed home.

**Zoning** sets different temperatures for up to eight different areas of your home for truly customized comfort and enhanced utility savings.

**Air Conditioner** provides reliable, efficient cooling for long-lasting comfort and energy savings. Ask about environmentally sound Carrier air conditioners with Puron® refrigerant.

**Edge® Thermostat™ control** is capable of providing precise temperature control and programmable features to further customize your comfort.



## Reliability

At Carrier, your comfort is our business. That's why we have one of the most extensive product research and development facilities in the world. Within each step of the development process, from the design phase to finished products, we test each and every product to exceed industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers to over 200,000 cycles. That's more than six times the industry's standard of 30,000 cycles.

## Safety

Built by the most trusted name in the industry, Carrier gas furnaces heat safely within your home. Carrier pioneered the following safety innovations:

- Hot surface ignition system eliminates the need for a pilot light, reducing gas usage and promoting worry-free operation.
- The control board constantly monitors the safety devices during heating operation. If a safety device activates for any reason, the furnace will cease operation and a status code will be displayed on the furnace control board, alerting you to any potential problems.
- Blocked-vent safeguard shuts down furnace operation if vents become inadvertently blocked to protect against potential harmful gasses escaping into your living area.

Performance™  
80

## Technology



- 1 Intelligent furnace control** – add a compatible Carrier thermostat and enjoy ComfortFan™ technology to provide the best combination of comfort and energy efficiency, helping to ensure even temperatures throughout your home.
- 2 Multi-speed blower** – ensures consistent airflow and temperature maintenance, helping to keep rooms more comfortable.
- 3 Two-stage gas valve** – provides two heating capacities. The low-capacity stage works during milder days while the high-capacity engages during colder temperatures.
- 4 Inducer fan** – precisely controls air intake within the combustion system for efficient performance.
- 5 Blocked-vent safeguard** – shuts down furnace operation if vents become inadvertently blocked to protect against potential harmful gases escaping into your living area.
- 6 Burner ignition** – as one of the most dependable systems available, it replaces pilot lights and reduces utility consumption.
- 7 Enhanced serviceability** – door knob for easy access, easy slide-out blower assembly, improved sight glass and brighter LED allow your dealer to maintain, diagnose and service this furnace efficiently.
- 8 Sealed blower cabinet** – helps this furnace achieve low air leakage standards required in some areas. Ask your dealer if this unit qualifies for rebates.



## Limited Warranty

To the original owner, the Carrier® Performance™ 80 gas furnace is covered by a 10-year parts and 20-year heat exchanger limited warranty upon timely registration of your new equipment.\* Ask your Carrier dealer about optional warranties, which include labor.

\* Warranty period is five years if not registered within 90 days. Jurisdictions where warranty benefits cannot be conditioned on registration will automatically receive a 10-year parts limited warranty. See warranty certificate at [carrier.com](http://carrier.com) for complete details.





## Turn to the Experts

Willis Carrier invented air conditioning in 1902. Over 100 years later, we're proud to say Carrier® systems are trusted in more homes than any other brand.

Carrier continues to be on the forefront of innovative engineering and unsurpassed standards of excellence. So when choosing a home comfort system, you'll want to turn to the experts. Your Carrier dealer will evaluate your home, such as window placement and size, ductwork, other structural specifics and lifestyle to provide a customized indoor comfort plan designed specifically for you. And when you have an expert helping you make an educated decision, you're going to feel more comfortable.

This Box is to be used as a knock-out for a non-varnished area on a full-spread, full-bleed varnish plate.



turn to the experts™

[www.carrier.com](http://www.carrier.com)

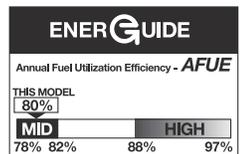
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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.  
Model 58CTA



Always look for these symbols, the home heating industry seals of certified performance, efficiency and capacity.