

Performance™ 80 Gas Furnace  
with ComfortHeat™ Technology



Turn to the Experts.™

Performance™  
SERIES



Highly Efficient Gas Furnace with 80% AFUE



# Things to Consider Before You Buy

## ComfortHeat™ Technology

When temperatures outside start to dip, maintain your indoor comfort with ComfortHeat™ Technology. 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 ComfortHeat™ Technology is a smart technology, accurately predicting the need for heating while cutting temperature swings



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

## Comfort

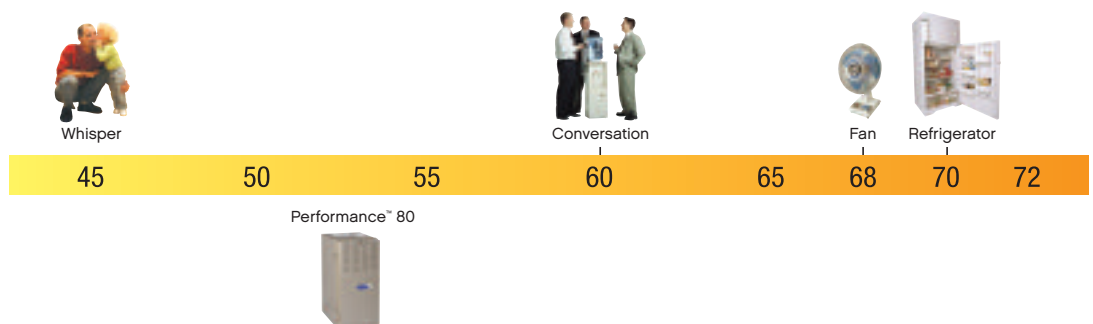
Carrier specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. Your Carrier dealer can help you choose the best system for your home including Carrier-exclusive features that further enhance your indoor environment.

- Your furnace plays an important role during the cooling season by circulating cool air throughout your home. The Performance™ 80 goes one step further, with features such as SmartEvap™, that can help keep humidity levels low.
- By adding the Thermidistat™ Control, you'll be able to utilize the SmartEvap feature, and manage indoor temperature and humidity levels with an easy-to-use programmable thermostat. Want to cool things down at night but keep them warmer during the day? Customize your home's indoor environment to your household needs and personal preferences with Carrier's Thermidistat Control.
- ComfortFan™ gives you even more control over your indoor comfort by allowing you to select your continuous fan speed at the thermostat.

## Sound

Carrier furnaces are designed for quiet operation and the Performance™ 80 gas furnace is no exception. How does it stay so quiet? The QuieTech™ noise reduction system, Carrier's patented combustion system, provides comfortable heat while generating very little sound in the process. The low-capacity operation allows this system to operate in the lowest possible setting for 90% of the heating season. Not only does this feature help to minimize sound, it also helps you save on your utility bills. And for what little sound a Carrier system does make, an insulated cabinet helps to further isolate sound levels at its source. At Carrier, we believe home comfort shouldn't be at your ears' expense.

## Comparative Sound Ratings (decibels)



# 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, highly efficient heating for long-lasting comfort and energy savings.

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

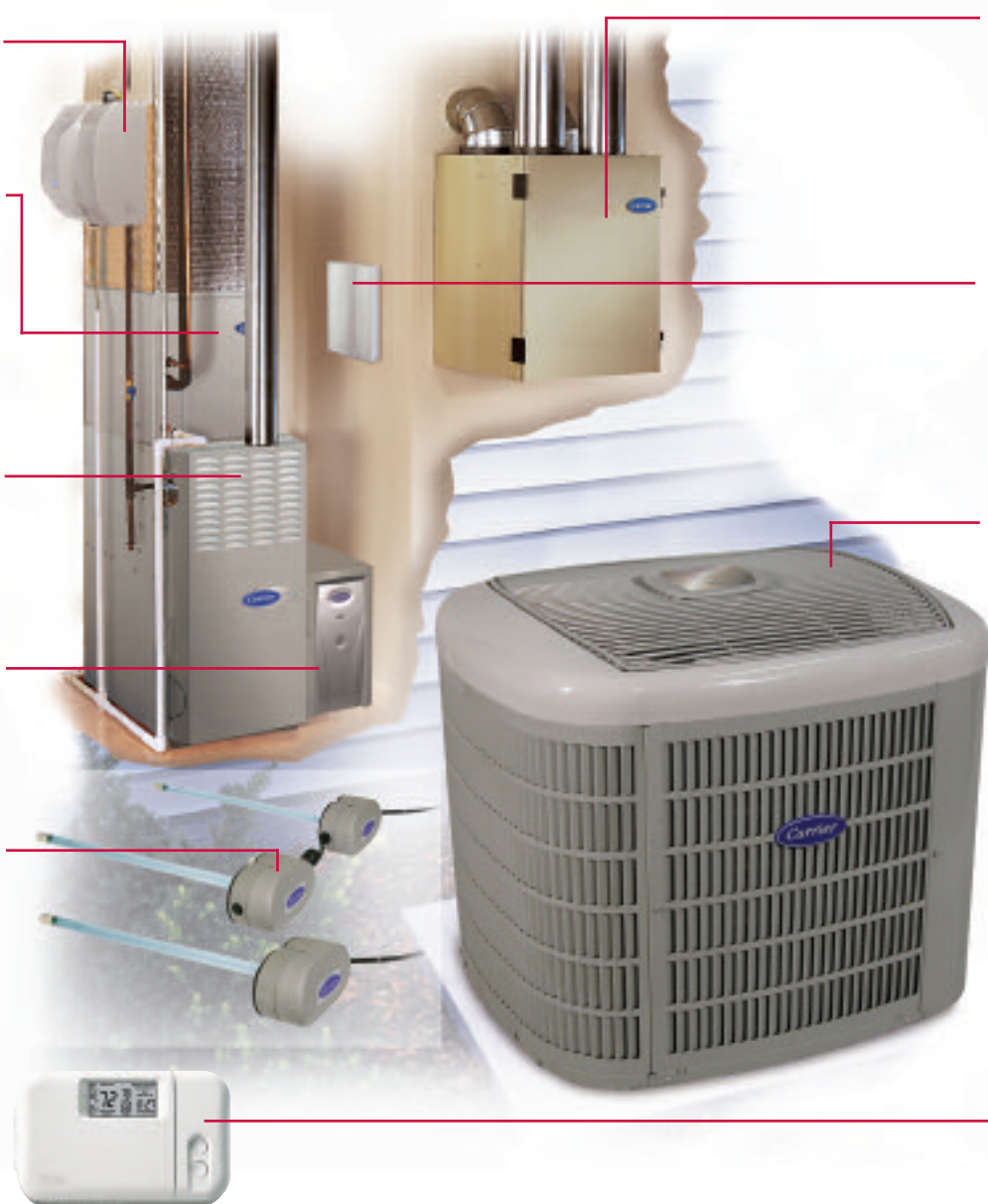
**Ultraviolet Germicidal Lamp** inhibits the growth of contaminants on the indoor coil, leaving your home with cleaner, fresher indoor air.

**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, high-efficiency cooling for long-lasting comfort and energy savings. Ask about environmentally sound Carrier air conditioners with Puron® refrigerant.

**Thermidistat™ Control** allows 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.

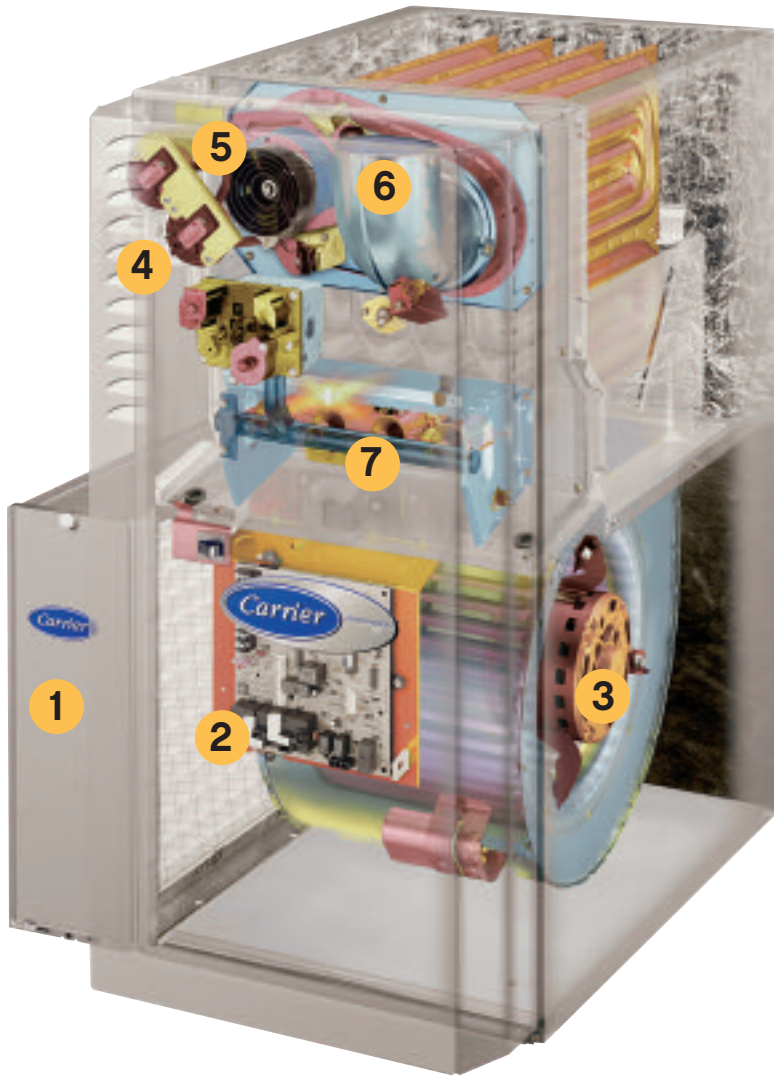
## Safety

Built by the most trusted name in the industry, Carrier 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 Optional air cleaner cabinet** – allows for the easy and convenient addition of a Carrier high-efficiency air filter for enhanced air quality.
- 2 Intelligent furnace control** – manages heat staging and fan speed to provide the best combination of comfort and energy efficiency, helping to ensure even temperatures throughout your home. The ComfortFan™ feature virtually eliminates the need for a ceiling fan.
- 3 Multi-speed blower** – ensures consistent airflow and temperature maintenance, helping to keep rooms more comfortable while improving air quality.
- 4 Two-stage gas valve** – provides two heating capacities. The low-capacity stage works during milder days while the high-capacity engages during colder temperatures.
- 5 Two-speed inducer** – precisely controls air intake within the combustion system for efficient performance.
- 6 Blocked-vent safeguard** – shuts down furnace operation if vents become inadvertently blocked to protect against potential harmful gasses escaping into your living area.
- 7 Burner ignition** – as one of the most dependable systems available, it replaces pilot lights and reduces utility consumption.

## Specifications

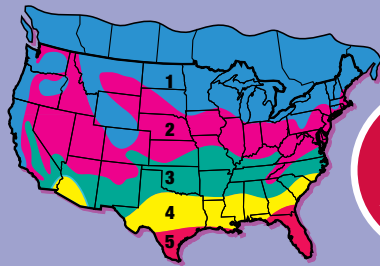
Gas Furnaces	Infinity™ System	Optional Air Cleaner Cabinet	Humidity Control	Blower Speed	ComfortHeat™ Technology	AFUE Rating	Heat Stages	Heat Exchanger Warranty	SmartEvap™ and ComfortFan™
Infinity™ 80	✓	✓	Ideal	Variable	✓	Up to 80.0	2	20 year	✓
Performance™ 80		✓	Enhanced	4-5	✓	Up to 80.0	2	20 year	✓
Comfort™ 80			Enhanced	3-4		Up to 80.0	1	20 year	✓

## Warranty

The Performance™ 80 gas furnace is backed by a 20-year limited warranty on the heat exchanger and a five-year limited warranty on the entire unit. Extended warranties are also available. Ask your Carrier dealer for details.



# Efficiency



**80%  
AFUE  
RATING**

### APPROXIMATE ANNUAL HEATING COSTS

	Typical 10-year old 65% AFUE	Standard Furnace 80% AFUE	Performance™ 80 80% AFUE
<b>Zone 1</b>	\$ 1,026	\$ 922	\$ 849
<b>Zone 2</b>	\$839	\$755	\$695
<b>Zone 3</b>	\$653	\$587	\$541
<b>Zone 4</b>	\$466	\$419	\$386
<b>Zone 5</b>	\$280	\$252	\$232

Calculations based on 50,000 btuh heating design, using a fuel rate of \$0.626 per therm, an electrical cost of \$0.0867 and the midpoint of the heating load hours for the zone.

#### To use this table:

1. Determine the AFUE of your current system.
2. From the map determine the zone you live in, enter the table and cross reference your zone with the AFUE of your current system to determine your approximate annual heating costs.
3. Compare your annual heating cost to that of a new system with a higher AFUE.
4. The difference of these two numbers is your estimated annual cost savings.
5. Heating costs include cycled fan operation. Fan costs are for fans set in ON position to run continuously. Subtract fan cost from total cost if unit is not set up to run continuously.

# Highly Efficient Gas Furnace Designed with Your Comfort in Mind



## Greater 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. With energy costs on the rise, a Carrier gas furnace can help lower your utility costs.

- The Performance™ 80 gas furnace has a rating of 80% AFUE, helping to reduce your utility costs.



## 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.



Turn to the Experts.™

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

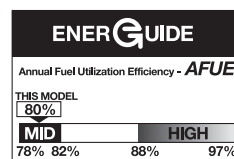
1-800-CARRIER

A member of the United Technologies Corporation family.  
Stock Symbol UTX.

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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.