

# Infinity™ 80 Gas Furnace with ComfortHeat™ Technology



Turn to the Experts.™

## INFINITY™ 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 system is a smart technology, accurately predicting

the need for heating while cutting temperature swings in half.



*ComfortHeat*™

ComfortHeat™ Technology provides a nearly continuous flow of warmth in low-capacity operation for a steadier, more consistent indoor temperature. 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.

- The revolutionary Infinity™ System is the only system in the industry that allows you to control temperature, humidity, air quality, fan speed, ventilation; and even detects when your air filter needs replacing. It's so advanced it automatically adjusts to your system's needs for peak-efficiency and performance.
- The Infinity™ 80 features SmartEvap™, which can keep unwanted humidity in your home to comfortably low levels.
- ComfortFan™ gives you even more control over your indoor comfort by allowing you to select your continuous fan speed at the Infinity™ Control.
- Bothered by that dry, staticky feeling in the winter or that muggy feeling in the summer? Add a Carrier humidifier and Infinity™ Control to your heating and cooling system. IdealHumidity™ controls your home's humidity level even when the system isn't actively heating or cooling.

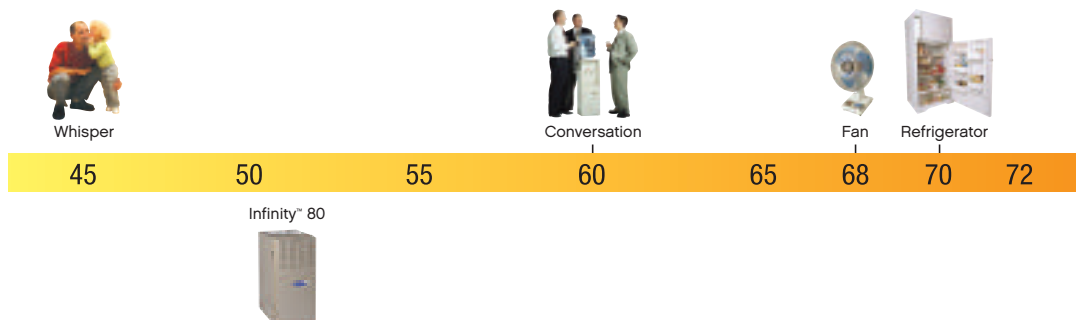


*IdealHumidity*™

## Sound

Carrier furnaces are designed for quiet operation, keeping sound levels down to a whisper. The variable speed fan 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. The QuietTech™ noise reduction system provides comfortable heat while generating very little noise in the process, due to Carrier's patented combustion system components. In fact, it takes almost seven Infinity™ 80 gas furnaces operating at the same time to equal the sound produced by one standard 80% AFUE furnace. 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** allows the refrigerant to absorb heat from the air as it passes over the coil surface. 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.

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

**Comfort 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.

**Infinity™ Control** is the interface to the Infinity™ System. The Infinity System is the only system in the industry that allows you to control temperature, humidity, air quality, fan speed and ventilation.

## 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 and every step of the development process, from the design phase to finished products, we test each 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:

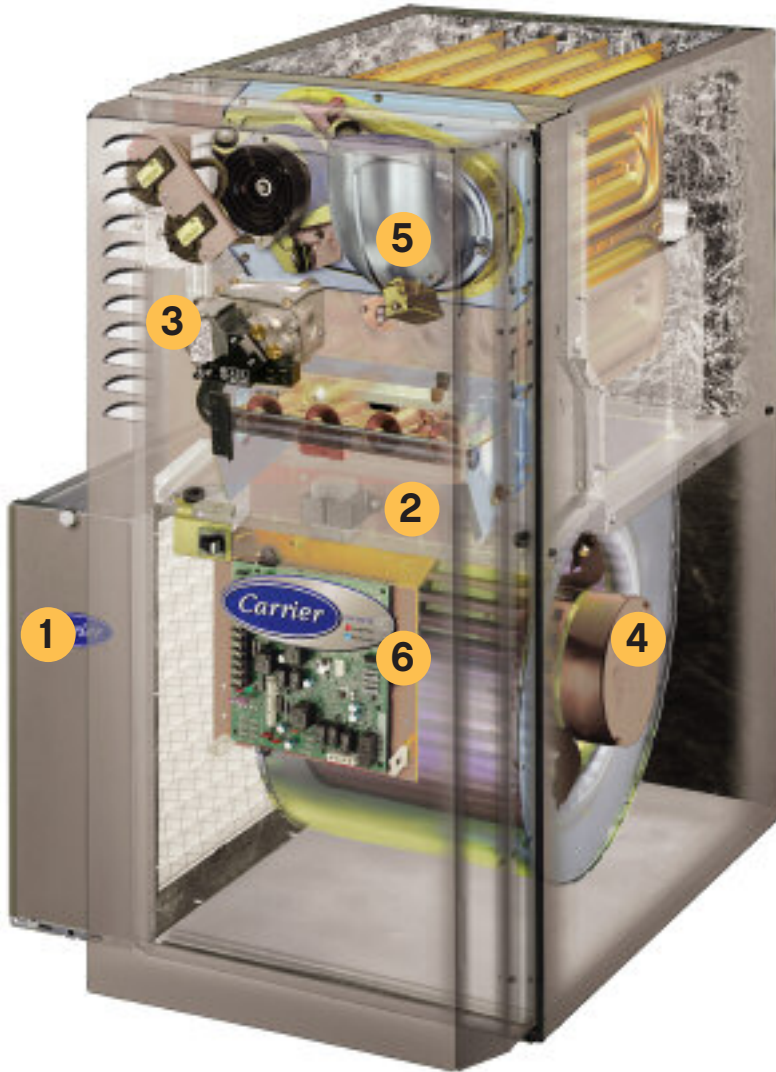
- Hot surface ignition system eliminates the need for a pilot light, reducing gas usage and promoting worry-free operation.
- The control board constantly monitors the safety devices during heating operation. If a safety device activates for any reason, the furnace will cease

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.

INFINITY™ 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 Burner ignition** – as one of the most dependable systems available, it replaces pilot lights and reduces utility consumption.
- 3 Two-stage gas valve** – provides two heating capacities. The low-capacity works during milder days or even during the milder portions of very cold days, while the high-capacity valve engages during colder temperatures.
- 4 Variable speed blower motor** – ensures consistent airflow and temperature maintenance, helping to keep rooms more comfortable while improving air quality.
- 5 Blocked-vent safeguard** – helps protect against exhaust gasses escaping into your living area.
- 6 Infinity™ furnace control board** – allows the furnace to connect to the Infinity™ Control for the ultimate comfort control. Smart electronics keep track of previous cycles and allow the system to automatically adjust the heating and cooling stages for the best comfort and energy efficiency. The ComfortFan™ feature virtually eliminates the need for a ceiling fan.

## 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	✓

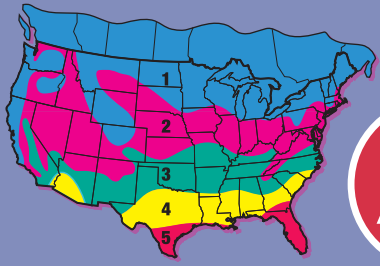
## Warranty

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



# Efficiency

# Highly Efficient Gas Furnace Designed with Your Comfort in Mind



### APPROXIMATE ANNUAL HEATING/COOLING COSTS

	Typical 10+ year old system 65% AFUE with 6 SEER	Ordinary 80% AFUE with 8 SEER	Infinity™ 80% AFUE with 12 <sup>+</sup> SEER
<b>Zone 1</b>			
Heating	\$ 1064	\$ 923	\$ 866
Cooling	258	194	120
Fan	358	271	32
<b>Total</b>	<b>1680</b>	<b>1388</b>	<b>1018</b>
<b>Zone 2</b>			
Heating	\$ 880	\$ 755	\$ 709
Cooling	413	310	192
Fan	362	274	33
<b>Total</b>	<b>1655</b>	<b>1339</b>	<b>934</b>
<b>Zone 3</b>			
Heating	\$ 697	\$ 587	\$ 551
Cooling	619	464	288
Fan	361	272	33
<b>Total</b>	<b>1677</b>	<b>1323</b>	<b>872</b>
<b>Zone 4</b>			
Heating	\$ 514	\$ 420	\$ 393
Cooling	877	656	408
Fan	353	264	33
<b>Total</b>	<b>1744</b>	<b>1340</b>	<b>834</b>
<b>Zone 5</b>			
Heating	\$ 330	\$ 252	\$ 236
Cooling	1238	929	576
Fan	334	246	31
<b>Total</b>	<b>1902</b>	<b>1427</b>	<b>843</b>

Costs in this table are based on a 50,000 Btu/h design heating requirement using an average fuel rate of \$0.626 per therm and a nominal 3-ton air conditioner using an average electric rate of \$0.0867 per kilowatt-hour.

\* A variable speed furnace improves air conditioning efficiency, allowing a 12.0 SEER system to operate as efficiently as a 13.0 SEER system due to the electrical efficiency.

The above calculations are approximations. A more thorough analysis should be done by your dealer.

#### To use this table:

1. Determine the AFUE/SEER 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/SEER of your current system to determine your approximate annual heating/cooling costs.
3. Compare your annual heating/cooling cost to that of a new system with a higher AFUE/SEER.
4. The difference of these two numbers is your estimated annual cost savings.
5. Heating and cooling 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.



## 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.

- The Infinity™ 80 gas furnace has a rating of 80% AFUE, helping to reduce your utility costs.
- While an ordinary furnace will consume 625 watts of electricity during continuous fan operation, the Infinity™ 80 uses approximately the same amount as a 100-watt light bulb.



## 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

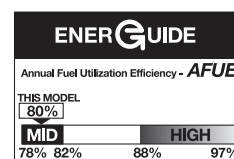
A member of the United Technologies Corporation family.  
Stock Symbol UTX.

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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 58CVA



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