

# Infinity™ 96 Gas Furnace with ComfortHeat™ Technology



Turn to the Experts.™

INFINITY™ SERIES



High-Efficiency Gas Furnace with up to 96.6% 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



*ComfortHeat™*

temperature swings in half. ComfortHeat™ Technology provides a nearly continuous flow of warmth in low-capacity operation for a steadier, more consistent indoor temperature. Our patented technology monitors previous heating cycles and adjusts the low- and high-capacity operation based on your home's heating needs.

## 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™ 96 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, "stickey" feeling in the winter or that muggy feeling in 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.



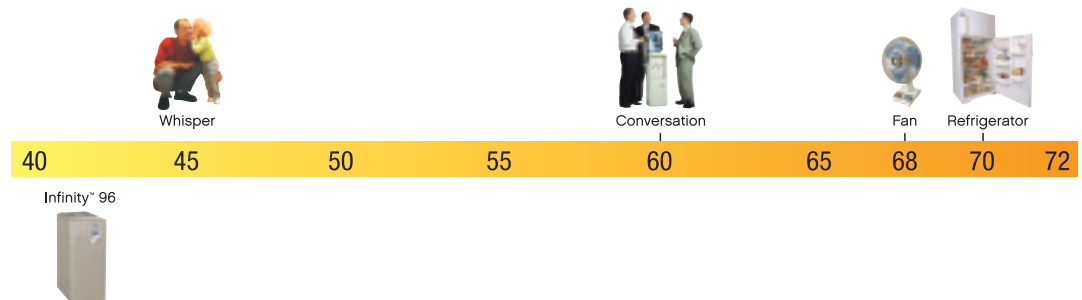
*IdealHumidity™*

## 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, a sealed combustion system and insulated cabinet help to further isolate sound levels at its source. In fact, it takes almost 24 Infinity™ 96 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, high-efficiency 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.

**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 every 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.

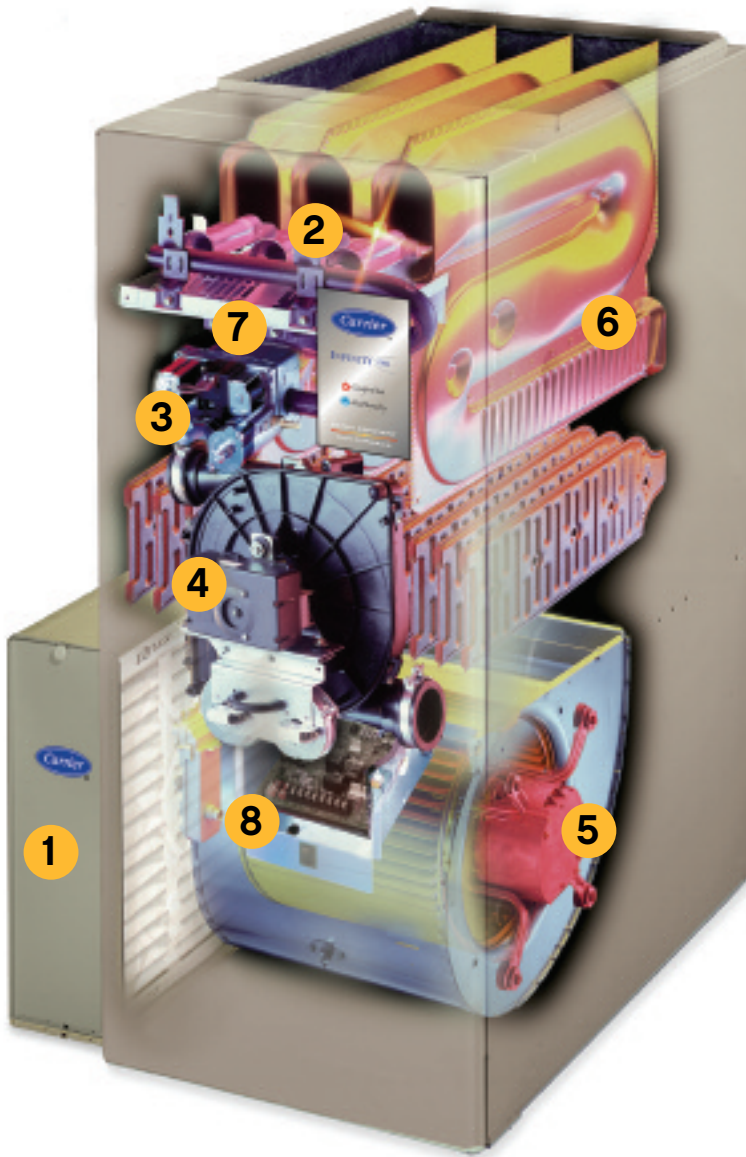
## Safety

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.

INFINITY™ 96

## 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 robust and durable ignition systems available, Power Heat™ hot surface ignition replaces pilot lights and reduces utility consumption.
- 3 Two-stage gas valve** – provides two heating capacities. The low capacity works during milder days while the high capacity engages during colder temperatures.
- 4 Variable speed inducer** – precisely controls air intake within the combustion system for high-efficiency performance.
- 5 Variable speed blower motor** – ensures consistent airflow and temperature maintenance, helping to keep rooms more comfortable while improving air quality.
- 6 Two heat exchangers** – extract heat from the gas you use and transfer it to warm the air. The primary heat exchanger extracts 80% of the heat while the secondary heat exchanger extracts an additional 12 – 16%, helping to ensure efficient, reliable performance.
- 7 Sealed combustion system** – reduces cold air infiltration while providing quieter operation.
- 8 Infinity™ furnace control board** – allows the unit to connect to an 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.

## 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™ 96	✓	✓	Ideal	Variable	✓	Up to 96.6*	2	Ltd. Lifetime	✓
Performance™ 93		✓	Enhanced	4-5	✓	Up to 93.0*		Ltd. Lifetime	✓
Comfort™ 92		✓	Enhanced	3-4		At 92.0+*	1	Ltd. Lifetime	✓

\*Energy Star® rated

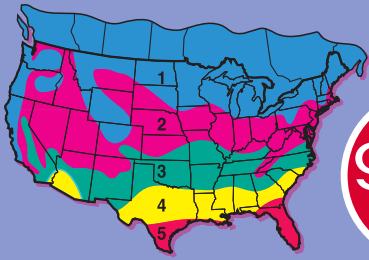
## Warranty

The Infinity™ 96 furnace is protected by a limited lifetime heat exchanger warranty and a five-year limited warranty on the entire unit. Extended warranties are available. Contact your Carrier dealer for further details.



# Efficiency

# High-Efficiency Gas Furnace Designed with Your Comfort in Mind



UP TO  
**96.6%**  
AFUE  
RATING

APPROXIMATE ANNUAL HEATING/COOLING COSTS

		Typical 10+ year old system 65% AFUE with 6 SEER	Ordinary 92% AFUE with 12 SEER	Infinity* 94% AFUE with 12 <sup>+</sup> SEER
Zone 1	Heating	\$ 1064	\$ 782	\$ 698
	Cooling	258	130	120
	Fan	358	224	29
<b>Total</b>		<b>1680</b>	<b>1136</b>	<b>847</b>
Zone 2	Heating	\$ 880	\$ 640	\$ 560
	Cooling	413	208	192
	Fan	362	224	30
<b>Total</b>		<b>1655</b>	<b>1072</b>	<b>782</b>
Zone 3	Heating	\$ 697	\$ 498	\$ 444
	Cooling	619	312	288
	Fan	361	221	31
<b>Total</b>		<b>1677</b>	<b>1031</b>	<b>763</b>
Zone 4	Heating	\$ 514	\$ 356	\$ 318
	Cooling	887	442	408
	Fan	353	214	31
<b>Total</b>		<b>1744</b>	<b>1012</b>	<b>757</b>
Zone 5	Heating	\$ 330	\$ 213	\$ 191
	Cooling	1238	624	576
	Fan	334	198	29
<b>Total</b>		<b>1902</b>	<b>1035</b>	<b>796</b>

Costs in this table are based on a 50,000 Btu/h 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. While an ordinary furnace will consume 625 watts of electricity during heating operation, most Infinity™ 96 models use less than a 100-watt light bulb.

- As the world's most energy efficient furnace, the Infinity™ 96 has a rating of up to 96.6 AFUE, helping to reduce your utility costs by up to 36% over the year. Actual savings will depend on the efficiency of your current system compared to the efficiency of a new system.
- As an ENERGY STAR® partner, Carrier Corporation has determined that the Infinity™ 96 gas furnace meets the ENERGY STAR guidelines for energy efficiency.
- A model (58UVB) achieving 95.0 AFUE efficiency is available in all sizes, thus qualifying for the federal energy tax credit.

