

# Performance™ Boost 80 Gas Furnace



turn to the experts™ 



Performance™  
SERIES



Reliable Heating 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 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.



## Energy-Efficient Gas Furnace Designed with Your Comfort in Mind



### Operational Efficiency

Annual Fuel Utilization Efficiency (AFUE) is like gas mileage. The higher the gas mileage or AFUE rating, the more efficient the motor vehicle or gas furnace is. Additionally, because your furnace can be an integral part of your cooling system as well, it pays to pick a furnace that can boost your cooling efficiency (SEER) during the summer months.

- The Performance™ Boost 80 gas furnace has a rating of 80% AFUE.
- This furnace can increase the energy efficiency of selected 13.0- and 14.0-SEER Carrier air conditioners up to 1.5 SEER.\*

\*As compared to the Air Conditioning, Heating and Refrigeration Institute's Standard Coil-Only Rating when paired with selected Carrier evaporator coils.





## Things to Consider Before You Buy

### 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 a Performance™ Boost 80 gas furnace and 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 Boost 80 gas furnace goes one step further and can increase the energy efficiency of selected 13.0- and 14.0-SEER Carrier air conditioners up to 1.5 SEER.\* Add a Carrier Edge® Thermidistat™ control and offer SmartEvap™ technology, a feature that works with your air conditioner to provide a comfort boost by helping keep humidity levels low.
- 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 at the thermostat.

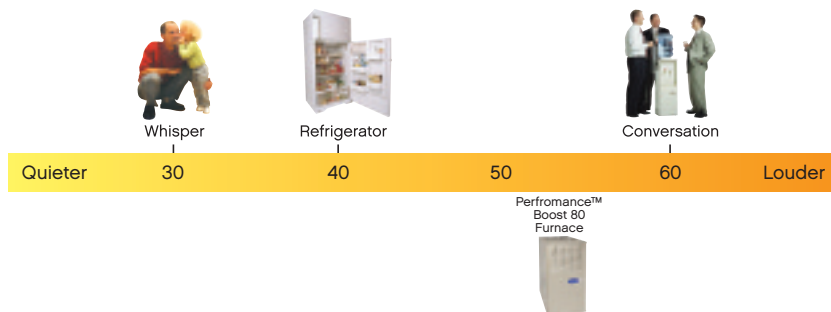
### Performance Boost

The Carrier Performance Boost 80 gas furnace does a great job delivering quiet, efficient and warm winter comfort. As a part of your total indoor comfort system, it continues to play a vital role during the cooling season as well. The Performance Boost 80 gas furnace can help selected 13.0 and 14.0 SEER Carrier air conditioners achieve added energy efficiency up to 1.5 SEER.\* It's an economical way to increase energy efficiency while also filling your need for a high quality gas furnace.

### Sound

Carrier gas furnaces are designed for quiet operation and the Performance Boost 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. And for what little sound a Carrier gas furnace does make, an insulated cabinet helps further isolate sound levels at their source. We take these extra measures because we firmly believe that your total home comfort experience should include products and systems that are easy on the ears.

### 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, single-stage 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>.

\*As compared to the Air Conditioning, Heating and Refrigeration Institute's Standard Coil-Only Rating when paired with selected Carrier evaporator coils.

# 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.

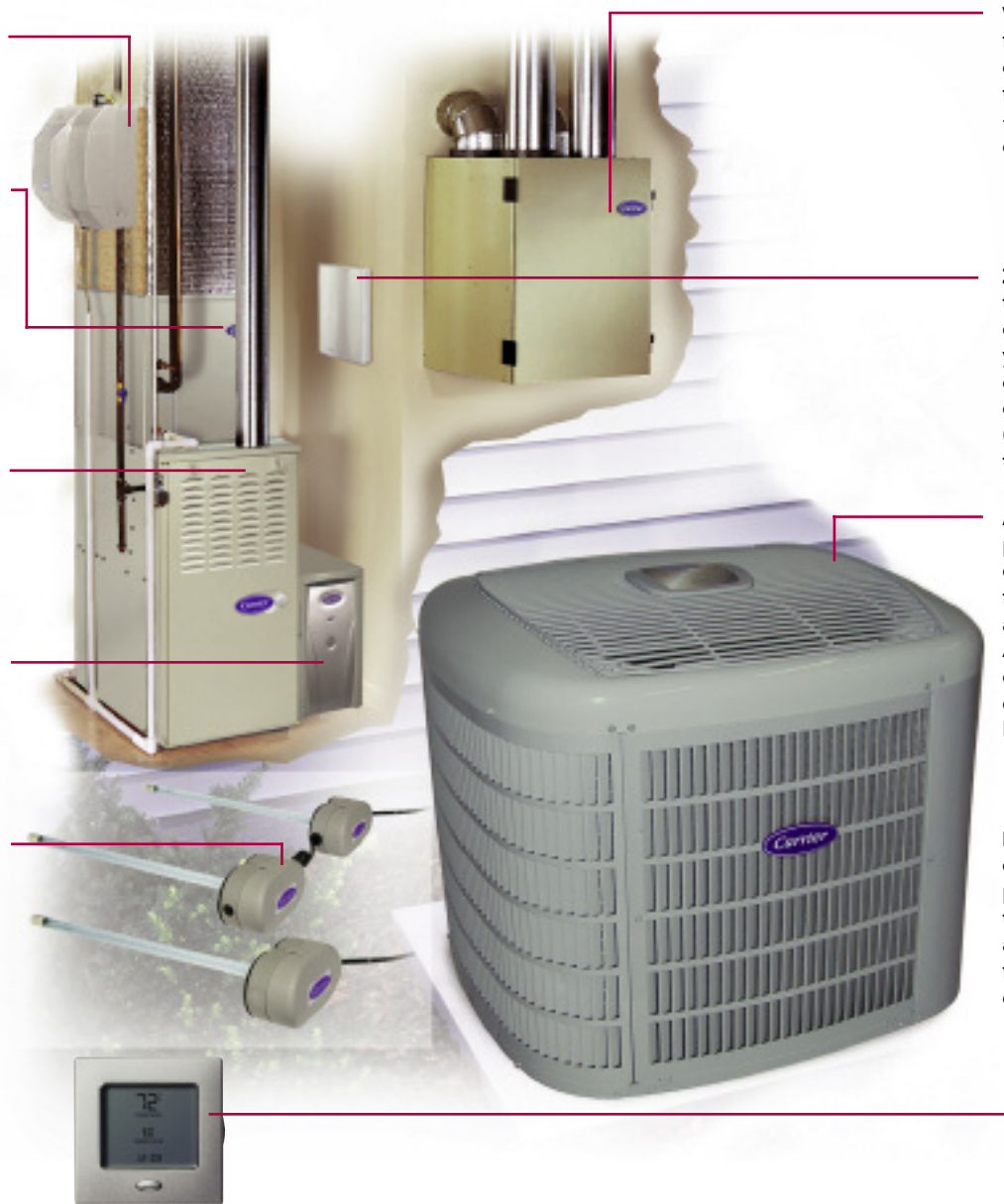
**Ultraviolet Germicidal Lamp** inhibits the growth of contaminants on the indoor coil, leaving your home with cleaner, fresher indoor air.

**Ventilator** combines fresh outdoor air with conditioned indoor air for improved air quality – 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. (Requires compatible thermostat.)

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

**Edge® Thermidistat™ 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™  
Boost80



## 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 Energy-saving blower** – the electronically controlled, programmed blower motor provides airflow optimized for your home's needs. The ECM blower motor offers higher efficiency performance than most standard, PSC-type motors.
- 3 Inducer fan** – precisely controls air intake within the combustion system for efficient performance.
- 4 Blocked-vent safeguard** – shuts down furnace operation if vents become inadvertently blocked to protect against potential harmful gasses escaping into your living area.
- 5 Burner ignition** – as one of the most dependable systems available, it replaces pilot lights and reduces utility consumption.
- 6 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.
- 7 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™ Boost 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 extended warranties, which may 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.



turn to the experts™ 

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

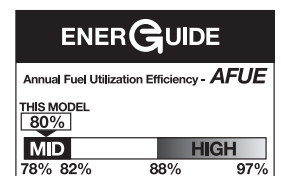
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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.  
Model 58PHA/PHX



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