Efficiency

Energy-Efficient Gas Furnace
Designed with Your Comfort in Mind

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

Greater 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.

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.

www.carrier.com  1-800-CARRIER

*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 goes one step further and can increase the energy efficiency of selected 110- and 140 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.

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 furnace can help select 110 and 140 SEER Carrier air conditioners achieve added energy efficiency up to 1.5 SEER.* It's an economical way to increase the energy efficiency of your home. The Performance Boost 80 can help keep humidity levels low.

Sound
Carrier furnaces are designed for quiet operation and the Performance Boost 80 is no exception. How does it stay so quiet? The QuieTech™ noise reduction system, Carrier’s amazing technology, which gives you even more control over your indoor comfort by allowing you to select your continuous fan speed at the thermostat.

Reliability
A Carrier® product is our business. That’s why we have one of the largest residential product research and development facilities in the world. Within each step of the development process, from the design phase to final products, we test each and every product to meet industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers during the development phase, not six times like the industry's average of 20,000 cycles.

Carrier® Systems for Unmatched Performance

### Safety

The Carrier Performance Boost 80 gas furnace is one of the most trusted name in the industry. Carrier pioneered the following safety innovations:

- **Perfromance™ Installation**: Combines minimum clearance and a partially insulated cabinet to provide the best combination of control and energy efficiency, helping to ensure safe and quiet operation throughout the home.
- **Energy-saving blower** – the electronically controlled, programmed blower motor provides smarter optimized for your home’s needs. The blower motor offers higher efficiency performance than most standard, PSC-type motors.
- **Close opening core valve** – helps ensure quiet operation and improved performance.
- **Inducer fans** – precisely control air movement in the combustion system for efficient performance.
- **Blocked-vent safeguard** – Checklist furnace operation if vents become inadvertently blocked to protect against potential harmful gasses escaping into your home.
- **Burner ignition** – one of the most dependable systems available, can replace pilot lights and reduces utility consumption.

### Specifications

<table>
<thead>
<tr>
<th>Performance Boost 80 Gas Furnace</th>
<th>Performance 80® Furnace</th>
<th>Performance 80® Furnace Enhanced 4-5</th>
<th>Performance 80® Furnace Enhanced 4-5 Zoning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System</strong></td>
<td><strong>System</strong></td>
<td><strong>System</strong></td>
<td><strong>System</strong></td>
</tr>
<tr>
<td><strong>Blower</strong></td>
<td><strong>Blower</strong></td>
<td><strong>Blower</strong></td>
<td><strong>Blower</strong></td>
</tr>
<tr>
<td><strong>Comfort</strong></td>
<td><strong>Comfort</strong></td>
<td><strong>Comfort</strong></td>
<td><strong>Comfort</strong></td>
</tr>
<tr>
<td><strong>Heat</strong></td>
<td><strong>Heat</strong></td>
<td><strong>Heat</strong></td>
<td><strong>Heat</strong></td>
</tr>
<tr>
<td><strong>AFUE</strong></td>
<td><strong>AFUE</strong></td>
<td><strong>AFUE</strong></td>
<td><strong>AFUE</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
<tr>
<td><strong>Seer</strong></td>
<td><strong>Seer</strong></td>
<td><strong>Seer</strong></td>
<td><strong>Seer</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
<tr>
<td><strong>Sound</strong></td>
<td><strong>Sound</strong></td>
<td><strong>Sound</strong></td>
<td><strong>Sound</strong></td>
</tr>
<tr>
<td><strong>Carrier</strong>-Exclusive Features</td>
<td><strong>Carrier</strong>-Exclusive Features</td>
<td><strong>Carrier</strong>-Exclusive Features</td>
<td><strong>Carrier</strong>-Exclusive Features</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td><strong>Efficiency</strong></td>
<td><strong>Efficiency</strong></td>
<td><strong>Efficiency</strong></td>
</tr>
<tr>
<td><strong>Boost 80 furnace</strong></td>
<td><strong>Boost 80 furnace</strong></td>
<td><strong>Boost 80 furnace</strong></td>
<td><strong>Boost 80 furnace</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
<tr>
<td><strong>ComfortFan™ technology</strong></td>
<td><strong>ComfortFan™ technology</strong></td>
<td><strong>ComfortFan™ technology</strong></td>
<td><strong>ComfortFan™ technology</strong></td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td><strong>Efficiency</strong></td>
<td><strong>Efficiency</strong></td>
<td><strong>Efficiency</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
<tr>
<td><strong>Benefits</strong></td>
<td><strong>Benefits</strong></td>
<td><strong>Benefits</strong></td>
<td><strong>Benefits</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
<tr>
<td><strong>Advanced</strong></td>
<td><strong>Advanced</strong></td>
<td><strong>Advanced</strong></td>
<td><strong>Advanced</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
<tr>
<td><strong>Enhanced</strong></td>
<td><strong>Enhanced</strong></td>
<td><strong>Enhanced</strong></td>
<td><strong>Enhanced</strong></td>
</tr>
<tr>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
<td><strong>Up to 80.0</strong></td>
</tr>
</tbody>
</table>

The Carrier Performance Boost 80 gas furnace is covered by a 10-year parts limited warranty.* Ask your Carrier dealer about optional extended warranties, which may include labor.

Limited Warranty
To the original owner, the Carrier Performance Boost 80 gas furnace is covered by a 10-year parts limited warranty.* See warranty certificate at carrier.com for complete details.

Carrier® high-efficiency air filters are designed to help maintain cleaner, healthier indoor air. The enhanced 80 and 90 Series Air Filters combine durability and efficiency and are designed to reduce airborne pollutants from your home.

### Technology

- **Optional air cleaner cabinet** – available for the easy and convenient addition of a Carrier air cleaner cabinet. An added filter for enhanced air quality.
- **Intelligent furnace control** – add a compatible Carrier thermostat and enjoy ComfortSens™ technology to provide the best combination of control and energy efficiency, helping to ensure safe and quiet operation throughout your home.

*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 for complete details.
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 goes one step further and can increase the energy efficiency of selected 100- and 140 SEER Carrier air conditioners up to 15 SEER.* Add a Carrier Edge™ Thermidistat™ Control and Carrier's QuietComfort™ noise reduction system to further isolate sound levels at their source. We take these extra steps to make sure your indoor environment remains quiet.

Performance Boost
The 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 furnace can help select 150 and 140 SEER Carrier air conditioners achieve added energy efficiency up to 15 SEER.* It's an economical way to increase energy efficiency while also filling your need for a high quality gas furnace.

Sound
Carrier furnaces are designed for quiet operation and the Performance Boost 80 is no exception. How does it stay so quiet? The QuieTech™ noise reduction system, Carrier's proprietary technology, provides comfortable heat while generating very little sound in the process. And for what little sound a Carrier system 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)

Reliability
As Carrier is the 100% owner of our business, that's why we have one of the most extensive product research and development facilities in the world. Within each test of the development process, from the design phase to field-tested products, we test each and every product to meet industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers to last 250,000 cycles. That's more than six times the industry's standards of 40,000 cycles.

Safety
Dual flame safeguard – shuts down furnace operation if vents become blocked, reducing the risk of harmful gases escaping into your living area.

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 be available.

1:2.5-1.5-1.0
1:2.5-1.5-1.0
1:2.5-1.5-1.0
1:2.5-1.5-1.0
1:2.5-1.5-1.0
1:2.5-1.5-1.0
1:2.5-1.5-1.0
1:2.5-1.5-1.0
Things to Consider Before You Buy

Comfort
Center 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 goes one step further and can increase the energy efficiency of selected 13.0 and 14.0 SEER Carrier air conditioners up to 1.3 SEER. Add a Carrier Edge® Thermostatic Control and SmartEvap™ technology, a feature that works with your air conditioner to provide a comfort boost by helping keep humidity levels low.

Performance Boost
The 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 can help select 13.0 and 14.0 SEER Carrier air conditioners achieve added energy efficiency up to 1.3 SEER. It’s an economical way to increase energy efficiency while also filling your need for a high quality gas furnace.

Sound
Carrier furnaces are designed for quiet operation and the Performance Boost 80 is no exception. How does it play its part? The QuickTel™ 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 system 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
Noise rating is as important to our business. That’s why we have one of the most extensive product research and development facilities in the world. Within each stage of the development process, from the design phase to final products, we test each and every product to meet industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers to last an average of 20,000 cycles. That’s more than six times the industry’s estimated of 2000 cycles.

Safety
As a Carrier dealer, it is our business. That’s why we have one of the most extensive product research and development facilities in the world. Within each stage of the development process, from the design phase to final products, we test each and every product to meet industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers to last an average of 20,000 cycles. That’s more than six times the industry’s estimated of 2000 cycles.

Carrier® Systems for Unmatched Performance

Reliability
A Carrier warranty is our business. That’s why we have one of the most extensive product research and development facilities in the world. Within each stage of the development process, from the design phase to final products, we test each and every product to meet industry standard requirements. In fact, Carrier engineers test the reliability of the heat exchangers to last an average of 20,000 cycles. That’s more than six times the industry’s estimated of 2000 cycles.

Technology
Optional air cleaner cabinet – allows for the easy and convenient addition of a Carrier air cleaner cabinet for improved air quality.

Intelligent furnace control – adds a compatible Carrier programmable thermostat and SmartEvap™ technology to provide the best combination of control and energy efficiency, helping to ensure your indoor comfort for the long term.

Energy-saving blower – the electronically controlled, programmed blower motor provides a cost optimized for your home’s needs. The blower motor offers higher efficiency performance than most standard, PSC-type motors.

Close opening valve – helps ensure quiet operation of your Carrier® system’s performance.

Inducer fan – precisely controls air circulation in the combustion system for efficient performance.

Blacked-out vent safeguard – shuts down furnace operation if vents become blocked or heat exchangers become clogged, improving safety, and increasing the energy efficiency.

Blacked-out vent safeguard shuts down furnace operation if vents become blocked or heat exchangers become clogged, improving safety, and increasing the energy efficiency.

Limited Warranty
To the original owner, the Carrier Performance Boost 80 gas furnace is covered by a 15-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 be added at the time of installation. The warranty period is 5 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 for complete details.

Carriergasfurnacestandard80GF.qxd 3/13/09 3:25 PM Page 2
Energy-Efficient Gas Furnace Designed with Your Comfort in Mind

Greater 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 and may help reduce your monthly heating costs.
- 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.

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.

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.

Www.carrier.com  1-800-CARRIER

1 Importantly, this information is intended solely for use by the applicable manufacturer's authorized dealers and service representatives.
Reliable Heating with 80% AFUE

Efficiency

80\% AFUE

80\% Energy-Efficient Gas Furnace Designed with Your Comfort in Mind

Greater 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 and may help reduce your monthly heating costs.
- The furnace can increase the energy efficiency of selected 13.0- and 14.0-SEER Carrier air conditioners up to 1.5 SEER\(^*\).

Turn to the Experts

While 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.

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.

<table>
<thead>
<tr>
<th>Zone 1</th>
<th>Zone 2</th>
<th>Zone 3</th>
<th>Zone 4</th>
<th>Zone 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>80%</td>
<td>80%</td>
<td>80%</td>
<td>80%</td>
<td>80%</td>
</tr>
</tbody>
</table>

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

www.carrier.com  1-800-CARRIER
A division of United Technologies Corporation

© Carrier Corporation 2009

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

Model 58PHA/PHX

www.carrier.com  1-800-CARRIER

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

CERTIFIED

Typical 10-year old 65% AFUE

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.