

# Performance™ Series Heat Pumps with Puron® Refrigerant



Turn to the Experts.™

Performance™  
SERIES



High Efficiency Heat Pumps with up to 16.0 SEER and 9.5 HSPF

# Things to Consider Before You Buy

## Puron® Refrigerant

Puron® refrigerant is environmentally sound and won't deplete the ozone layer. Carrier introduced Puron® refrigerant a full six years ahead of the competition, paving the way for the future. The Clean Air Act of 1990 prohibits the production of HCFC®-based air conditioners and heat pumps by 2010, and bans Freon®-22\* production by 2020. As Freon® production reduces, its cost is predicted



to increase. Freon®-12 in the automotive industry increased by a whopping 800% in a short seven years! Ensure your cooling costs by investing in systems with Puron® refrigerant — environmentally sound, efficient and dependable refrigerant designed for the future. Carrier's Performance™ Series heat pumps with Puron® refrigerant deliver excellent efficiency, reliability and proven performance.

## 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.

- Add a variable speed furnace or fan coil and Thermostat™ Control to your Performance™ Series heat pump and receive Carrier's exclusive ComfortHeat™ Heat Pump System. The result is more consistent temperature, greater air circulation and improved air quality. This system can deliver warmer air by up to 20 degrees while in the heating mode.
- Bothered by that dry, staticky feeling in the winter or that muggy feeling in the summer? Add a Carrier humidifier, variable speed furnace or fan coil and Thermostat™ Control to your heat pump

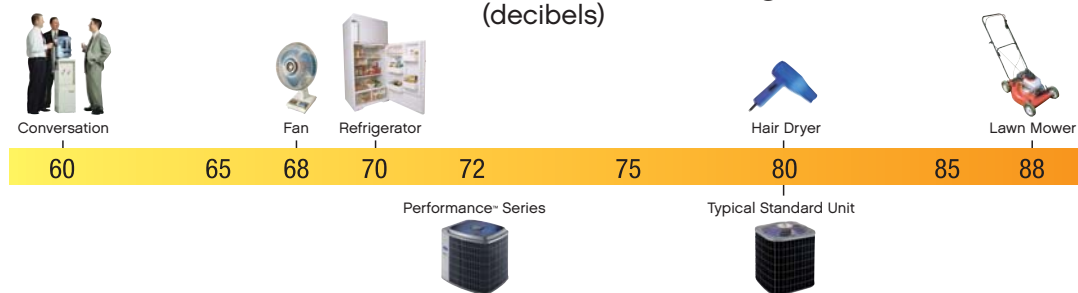
system. IdealHumidity™ controls your home's humidity level even when the system isn't actively heating or cooling. By keeping the proper balance of moisture in your home, you remain more comfortable at higher temperatures in the summer and lower temperatures in the winter — better efficiency means lower utility costs.



## Sound

Carrier's exclusive Silencer System ensures extra-quiet performance by maximizing airflow while minimizing vibration. With sound ratings as low as 72 dBA, Carrier's Performance™ Series heat pumps are comparable to the sound of a refrigerator. In fact, it takes almost ten Performance™ Series heat pumps operating at the same time to equal the sound produced by one typical heat pump.

## Comparative Sound Ratings (decibels)



\* Freon is a registered trademark of E. I. DuPont de Nemours & Co.



# 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.

**Fan Coil** is the indoor section of your heat pump system. It should be properly matched to the outdoor unit for improved efficiency and long-term reliability.

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

**Ultraviolet Germicidal Lamp** reduces the amount of pollutants such as mold, bacteria, fungi and viruses, 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.

**Heat Pump** provides reliable, high-efficiency heating and cooling for long-lasting comfort and energy savings.

**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 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 designs every heat pump for applications up to 125 degrees. That's a full 10 degrees higher than the industry standard.

## Durability

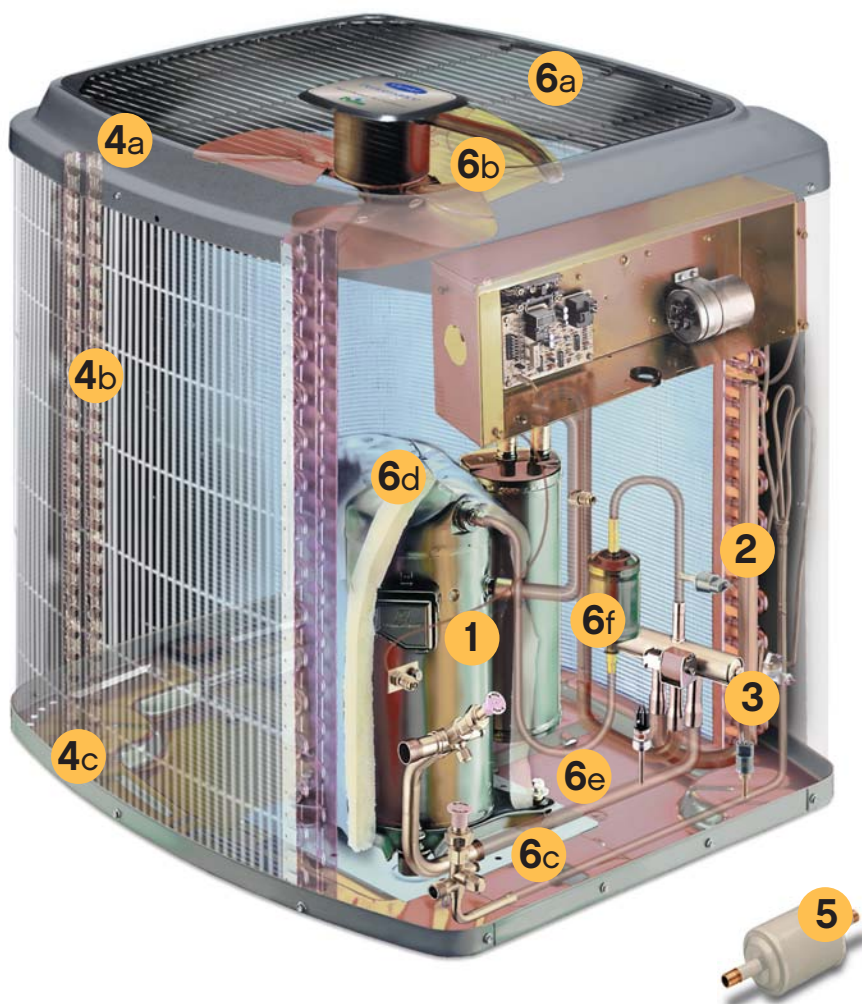
Neither rain nor hail nor golf or soccer balls can keep a Carrier system from doing its job – they're built tough inside and out.

### Outside

- WeatherArmor™ III protection keeps your system looking and operating its best for years to come.
- Galvanized steel cabinet protects against corrosion, keeping your outdoor unit looking good for years.
- Heavy-duty wire grille prevents coil damage and promotes optimum airflow through the unit while making cleaning easy.

### Inside

- High-pressure and loss-of-charge switches turn your outdoor unit off if harmful conditions are detected.
- Time/temperature electronic control board for efficient defrost cycles.
- Copper tube/aluminum fin coil efficiently transfers heat outside while resisting corrosion.



This product is designed and manufactured under the ISO 9001:2000 registered quality system.

## Specifications

Heat Pumps	Infinity™ System	2-Speed Compressor	Scroll Compressor	SEER Rating	HSPF Rating	Energy Star®	Puron® Refrigerant	Silencer System	Sound Ratings Under 75 dB
Infinity™ 17	✓	✓		Up to 17.0	Up to 9.5	✓	✓	✓	✓
Performance™ Series			✓	12.0, up to 16.0	Up to 9.5	✓*	✓	✓	✓
Comfort™ Series			✓**	10.0 – 14.0	Up to 8.3	✓*		✓**	✓**

\*System combinations that achieve 13.0 SEER and 8.0 HSPF or higher

\*\*Excludes Comfort™ 10 heat pump

## Warranty

Carrier Performance™ Series heat pumps include a 10-year limited warranty on the compressor and a five-year limited warranty on the entire unit. Extended warranties are also available. Ask your Carrier dealer for details.

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## Technology

**Puron® refrigerant** – environmentally sound, replacing Freon®–22\* and won't deplete the ozone layer.

- 1 Scroll compressor** – as the heart of the heat pump, the compressor pumps refrigerant throughout the system.
- 2 Copper tube/aluminum fin coil** – transfers heat outside to maximize indoor cooling while resisting corrosion.
- 3 High-pressure and loss-of-charge switches** – protects the system from extreme conditions.
- 4 WeatherArmor™ III protection package** – combines three design elements that protect your comfort.
  - a. Galvanized steel cabinet**
  - b. Heavy-duty wire grille**
  - c. Ceramic-coated screws**
- 5 Filter drier** – constantly filters the refrigerant to remove moisture or other contaminants that can harm your heat pump system.
- 6 Carrier's exclusive Silencer System** is designed for quieter operation by minimizing vibration and uses special insulation that helps absorb sound. The six components include:
  - a. Silencer top**
  - b. Integrated fan motor and blade design**
  - c. Compressor vibration isolator plate**
  - d. Sound hood**
  - e. Split-post compressor grommets**
  - f. Silencer muffler**



# Efficiency

Because heat pumps provide both heating and cooling, their efficiency is measured with two distinct ratings. SEER is used to measure cooling efficiency, while HSPF measures heating efficiency. SEER and HSPF are like gas mileage. The higher the rating, the more efficient the automobile or system is. Most new heat pumps rate between 12.0 and 17.0 SEER and 7.0 and 9.5 HSPF.

- Carrier's Performance™ Series heat pumps are available with efficiency ratings of up to 16.0 SEER when cooling and up to 9.5 HSPF when heating.
- While a higher efficiency unit may cost more to purchase, it can pay for itself over its lifetime in utility cost savings.
- As an ENERGY STAR® partner, Carrier Corporation has determined that Performance™ Series heat pumps with system combinations that achieve 13.0 SEER and 8.0 HSPF or higher meet the ENERGY STAR® guidelines for energy efficiency.

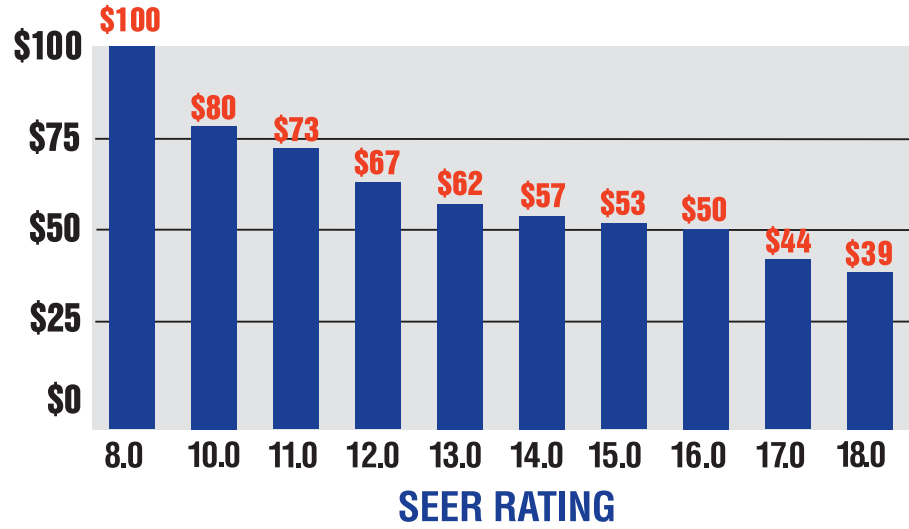


# High Efficiency Heat Pumps Designed with Your Comfort in Mind



## Greater Operational Efficiency

For every \$100 you spend using an 8.0 SEER heat pump system, a 14.0 SEER heat pump should cost about \$57. Actual savings will depend upon your current system's efficiency rating versus a newer system's efficiency rating.







## 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

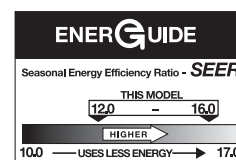
A member of the United Technologies Corporation family.  
Stock Symbol UTX.

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

Models 38YSP, 38YXA, 38YZA



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