

# Performance™ 14 Packaged HYBRID HEAT® Dual Fuel System with Puron® Refrigerant



Turn to the Experts.™

Performance  
SERIES



Enjoy the Comfort of Gas and the Economy of a Heat Pump in One System

## Efficiency

When buying a car, most consumers know that the miles-per-gallon rating on the window sticker was attained under carefully controlled conditions. And, you don't just get one rating, you get two – city mileage and highway mileage. Because the Performance™ 14 packaged HYBRID HEAT dual fuel system provides both heating and cooling, and provides two different heating fuel sources, its efficiency is measured with four distinct ratings. SEER and EER are used to measure cooling efficiency, while AFUE measures gas heating efficiency and HSPF measures electric heating efficiency. The higher the SEER, EER, AFUE or HSPF, the higher the efficiency.

- The Performance 14 packaged HYBRID HEAT dual fuel system delivers 14.0 SEER cooling efficiency.
- This system also delivers a 12.0 EER rating, which measures the unit's cooling performance under peak conditions.
- During gas heating operation you can expect up to 81% AFUE.
- In moderately cold outdoor temperatures, you can count on up to 8.0 HSPF heating from heat pump operation.
- As an ENERGY STAR® partner, Carrier Corporation has determined that the Performance™ Series packaged HYBRID HEAT dual fuel system that achieves system combinations of 14.0 SEER and 12.0 EER or higher meets the ENERGY STAR guidelines for energy efficiency.



Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your dealer for details or visit [www.energystar.gov](http://www.energystar.gov).

## High-Efficiency Packaged HYBRID HEAT® Dual Fuel System Designed with Your Comfort in Mind

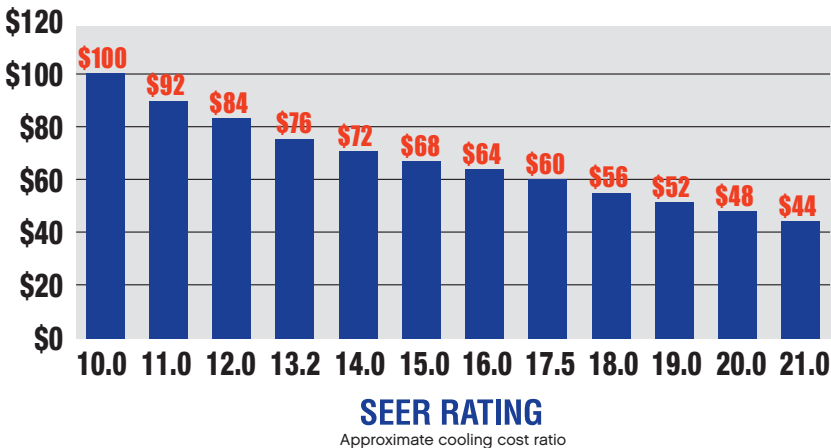


**14.0**  
SEER  
RATING

**12.0**  
EER  
RATING

## Greater Operational Efficiency

For every \$100 spent to cool your home using a 10.0 SEER packaged system, a 14.0 SEER system should cost approximately \$72 during cooling operation. Actual savings will vary depending on the efficiency of your current system.



Approximate cooling cost ratio



# Things to Consider Before You Buy

## Puron® Refrigerant

The Carrier® Performance™ 14 packaged HYBRID HEAT® dual fuel system with Puron Refrigerant delivers the comfort your family deserves with excellent reliability and proven performance. And because it uses Puron refrigerant, this environmentally sound system won't deplete the ozone layer. Carrier introduced Puron refrigerant a full six years ahead of the competition, paving the way for the future of indoor comfort. That was an important milestone because the Clean Air Act of



1990 prohibits the production of traditional HCFC-based air conditioners and heat pumps by 2010. It also bans Freon®-22\* production by 2020. As Freon® production is reduced its cost may increase. By comparison, Freon®-12 in the automotive industry increased by a whopping 800% in seven years following its phase-out! Heating and cooling systems with Puron refrigerant are environmentally sound, efficient, dependable and designed for the future.

## 12.0 EER Performance

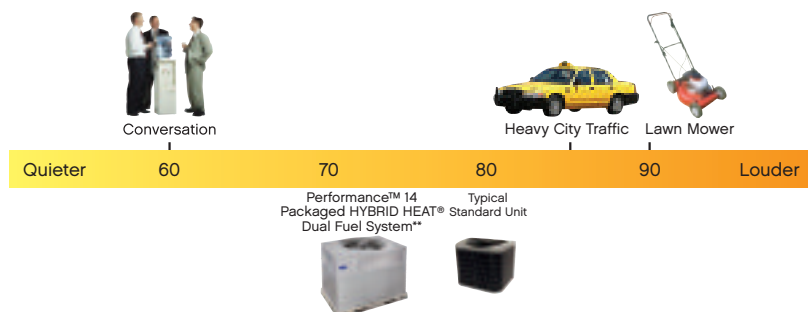
Carrier specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. Your Carrier dealer can help you choose the best system for your home, including a Performance 14 packaged HYBRID HEAT dual fuel system and Carrier-exclusive features that further enhance your indoor environment. The Performance 14 packaged HYBRID HEAT dual fuel system gives you the comfort of gas heat and the economy of a heat pump in one efficient package. Select your desired indoor temperature on a compatible thermostat and the system automatically switches to the most effective and efficient fuel source for indoor comfort.

- Informed consumers know that cooling efficiencies are measured by both SEER and EER. SEER is an average measure of performance under varying conditions throughout the cooling season when a majority of the days typically reach relatively moderate temperatures. EER is an air conditioner's measured efficiency at a constant 95 degrees Fahrenheit.
- EER ratings represent your system's ability to provide cool comfort and energy efficiency during the hottest days of the summer. More importantly, a unit with a high SEER doesn't always have a high EER rating as well. The Carrier Performance 14 outperforms many other 14.0 SEER models because it also achieves a high 12.0 EER rating.

## Sound

Carrier believes that quiet operation is a vital component to your total home comfort experience. So we engineer our products to offer quiet delivery of conditioned air. With sound ratings as low as 72 dBA\*\*, the Performance 14 packaged HYBRID HEAT dual fuel system lets you relax without a lot of background noise.

## Comparative Sound Ratings (decibels)



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

\*\* Per standard testing as described by ARI 270-95. Other sound levels, mentioned for comparison, as published at <http://www.nidcd.nih.gov/health/hearing.ruler.asp>.

# Carrier® Systems for Unmatched Performance

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



**Humidifier** replenishes moisture to dry air.



**Zoning** sets different temperatures for up to eight different areas of your home for truly customized comfort and enhanced utility savings.



**HYBRID HEAT® dual fuel system thermostat** automatically selects the fuel source for the most effective and economical heating operation. Ask your dealer about the options available, including our ultra-slim, fully-featured programmable thermostat.

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

**The Performance™ 14 packaged HYBRID HEAT dual fuel system** combines both a heat pump and a gas furnace in one system and is designed to use environmentally-sound Puron® refrigerant and natural gas for economical utility costs throughout the year. *Optional louvers shown.*



## 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 unit produced to ensure its performance is up to our standards. In addition, Performance 14 packaged HYBRID HEAT dual fuel systems are tested for applications up to 125 degrees. That's a full 10 degrees higher than industry standards. And, Carrier systems have one of the lowest failure rates in the industry.

## Durability

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

### Outside

- Galvanized steel cabinet protects against corrosion, keeping your packaged system looking good for years.
- Carrier's innovative base combines a high-tech composite interior for light weight and corrosion resistance with outer base rails for structural integrity and easier handling and rigging for your installing dealer. The sloped drain pan design improves drainage and helps inhibit mold, algae and bacterial growth.
- Three separate access panels make installation and routine maintenance easier.

### Inside

- High- and low-pressure switches turn your system off if harmful conditions are detected.
- Filter drier helps keep the refrigerant system free from excess moisture and debris.
- Turbo-Tubular™ heat exchanger allows hot gases to make multiple passes across the supply air, optimizing heat transfer and system efficiency. Tough aluminum coating provides long-lasting corrosion resistance to keep your system running at its best.
- Thermostatic™ Expansion Valve consistently monitors refrigerant flow for peak operating conditions.

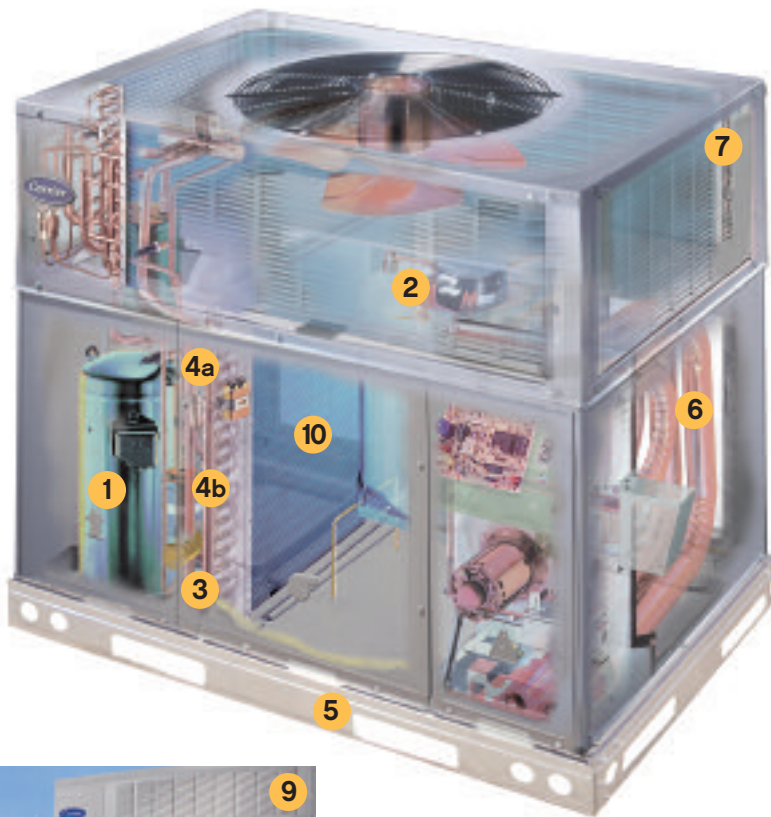
Performance  
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## Technology

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

- 1 Compressor** – the heart of the heating and cooling system, available for single- and three-phase operation for reliable, quiet, high-efficiency comfort.
- 2 Energy-saving blower** – optimizes airflow for your home's cooling needs with an electronically controlled, programmable motor. This motor delivers higher efficiency than standard, PSC-type motors.
- 3 Thermostatic™ Expansion Valve** – consistently monitors refrigerant flow for peak operating conditions.
- 4 Reliability features:**
  - a. **High- and low-pressure switches** – help protect the compressor from operating outside of normal pressure ranges.
  - b. **Filter drier** – helps keep the system free from excess moisture and debris.
- 5 Innovative base** – On the inside, a high-tech composite material will not rust. Sloped drain pan improves drainage to help inhibit mold, algae and bacterial growth. Outside, metal base rails provide added stability as well as easier dealer handling and rigging.
- 6 Turbo-Tubular™ heat exchanger** – allows hot gases to make multiple passes across the supply air, optimizing heat transfer and system efficiency. Tough aluminum coating provides long-lasting corrosion resistance to keep your system running at its best. Optional stainless steel heat exchanger provides even greater corrosion resistance and longer-lasting peak performance.
- 7 Galvanized steel cabinet with louvered grille** – protects the coil against potential hazards often associated with outdoor installation such as rocks, sticks and garden equipment.
- 8 Enhanced dehumidification** – with our optional HYBRID HEAT dual fuel control allows you to enjoy improved energy efficiency and comfort during the cooling season.
- 9 All-in-one versatility** – with most models weighing less than 500 pounds, this system gives you the flexibility for rooftop installation when space is a concern.
- 10 Optional ArmorCoat™ tin-plated coil** – provides superior corrosion resistance compared to our standard copper tube/aluminum fin coil for longer life. Tin-plated coil is backed with a 10-year limited warranty.



## Specifications

Small Packaged	Infinity™ Controls Capable	Standard Variable Speed Fan	Humidity Management	Thermostatic Expansion Valve	Puron® Refrigerant	SEER	Up to 81% AFUE	HSPF Heating Seasonal Performance Factor	EnviroTuff™ Base	ENERGY STAR®
Infinity™ 15	✓	✓	✓	✓	✓	15.0	✓	8.0	✓	✓
Performance™ Series	✓	✓	✓	✓	✓	14.0	✓	8.0	✓	✓
Comfort™ Series*	✓	✓	✓	✓	✓	13.0	✓	7.7	✓	✓

## Limited Warranty

To the original owner, the Carrier® Performance™ packaged HYBRID HEAT® dual fuel system is covered by a 10-year parts limited warranty upon timely registration of your new equipment.<sup>1</sup> Aluminized heat exchangers carry a 15-year parts limited warranty. Optional stainless steel heat exchangers carry a lifetime parts limited warranty.<sup>2</sup> Copper indoor evaporator coil is covered by a five-year parts limited warranty. Optional tin-plated evaporator coil is covered by a 10-year parts limited warranty. Ask your Carrier dealer about optional extended warranties, which may include labor.

(1) Warranty period is five-year parts limited warranty 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.

(2) Warranty period is 20-year parts limited warranty on optional stainless steel heat exchanger if not registered within 90 days. Jurisdictions where warranty benefits cannot be conditioned on registration will automatically receive a lifetime parts limited warranty.

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





## 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)

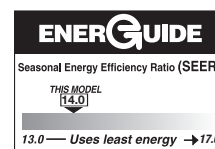
1-800-CARRIER

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 48VT



Always look for these symbols, the air conditioning and heating industries seals of certified performance, efficiency and capacity.