

# Infinity™ 21 Air Conditioner with Puron® Refrigerant



Turn to the Experts.™

INFINITY SERIES



Carrier's Best, Most Energy-Efficient System with up to 21.0 SEER

# 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 following its phase-out! Ensure your cooling costs by investing in systems with Puron refrigerant – the environmentally sound, efficient and dependable refrigerant designed for the future. The Carrier® Infinity™ 21 air conditioner with Puron refrigerant delivers excellent 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 the Infinity 21 air conditioner with Puron refrigerant and Carrier-exclusive features that further enhance your indoor environment.

When combined with a variable speed furnace or fan coil and our exclusive Infinity™ Control, this air conditioner can be part of our revolutionary Infinity™ System. It's the only system in the industry that controls temperature, humidity, air quality, fan speed and ventilation with the added ability to detect when your air filter needs to be replaced.

Two-stage cooling means longer cooling cycles to help eliminate hot spots and maintain a more even, consistent temperature throughout your home. It's like getting two air conditioners in one.

- Operates in low-stage up to 80% of the time delivering more consistent temperature, enhanced air circulation

and improved air quality while saving on utility costs.

- High-stage operation delivers additional cooling as conditions require.

Bothered by that dry, "sticky" feeling in the winter or that muggy feeling in the summer? Ideal Humidity System® technology monitors and adjusts your home's humidity level even when the system isn't actively heating or cooling.† To achieve humidity in your home, add a Carrier *Ideal Humidity* humidifier, variable speed furnace or fan coil and Infinity Control to your system.

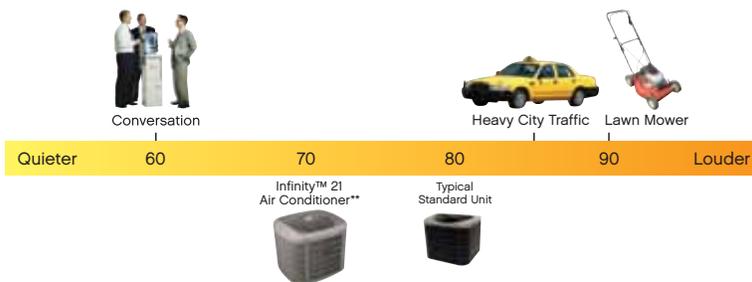


*Ideal Humidity*

## Sound

Carrier's exclusive Silencer System II™ ensures extra-quiet operation by maximizing airflow and minimizing vibrations. With sound ratings as low as 70 dBA\*\*, the Infinity 21 air conditioner is as quiet and unobtrusive as a kitchen refrigerator. And, because it sits outside your home, you'll rarely, if ever hear it running inside.

### Comparative Sound Ratings (decibels)



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

† Ideal Humidity System technology continually monitors indoor humidity, indoor temperature and outdoor temperature, and has the ability to turn on your comfort system just for dehumidification.

\*\* 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

**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.

**Furnace** provides reliable, high-efficiency heating for long-lasting comfort and energy savings. Available in high-efficiency gas- and oil-based fuel sources.

**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.

**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, ultra high-efficiency cooling for long-lasting comfort and energy savings.

**Infinity™ Control** is more than just a thermostat. It's your interface to the Infinity™ System, 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. From initial design to final assembly, we monitor product quality throughout all phases of the process. Our exclusive 5-step, 100% run test ensures that every single unit we make exceeds industry expectations and meets the toughest standards of all – yours.

## 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

WeatherArmor Ultra™ protection and galvanized steel cabinet protect against corrosion and keep your system looking its best for years.

Louvered coil guard looks great and helps keep your system operating at its best by protecting your coil from rocks, sticks, lawn and sports equipment and more.

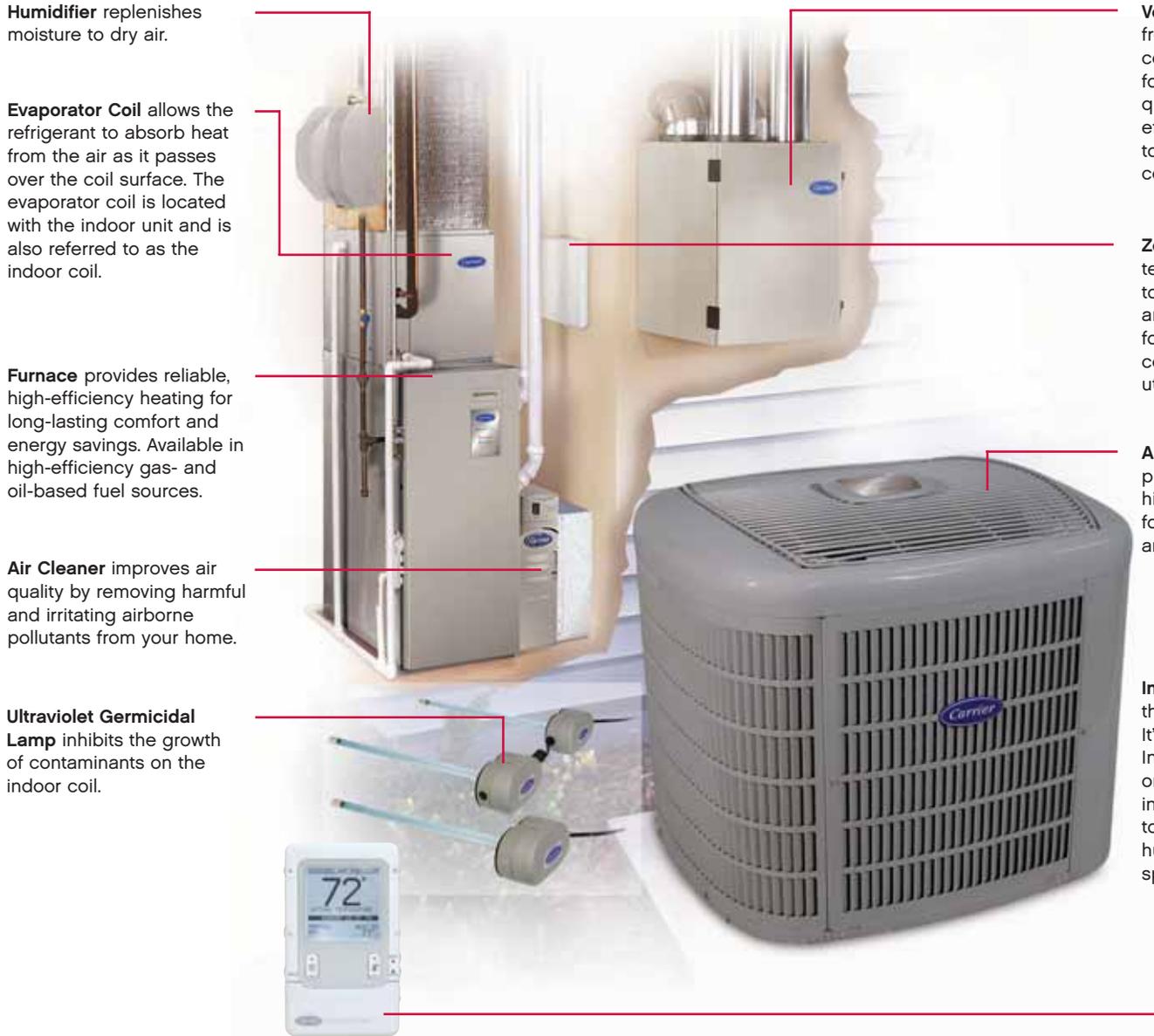
Baked-on powder paint evenly coats all exterior painted surfaces to provide superior rust and corrosion protection.

### Inside

Forward-swept fan blades maximize airflow for enhanced performance and sound reduction.

Filter drier removes moisture and debris from refrigerant to protect the compressor and maintain top efficiency and performance.

Carrier's two-stage compressor has the most trouble-free performance record of any compressor on the market today.



## Technology

**Puron refrigerant** – environmentally sound and won't deplete the ozone layer.

- 1 Two-stage compressor** – the heart of the air conditioner, the compressor pumps refrigerant through the system.
- 2 Infinity™ electronic control board** – allows precise control of two-stage operation and works with the Infinity Control for the ultimate in comfort. “Smart” electronics track previous cycles and automatically select the best settings for maximum comfort and efficiency.
- 3 Copper Microtube™/aluminum fin coil** – transfers heat outside to maximize indoor cooling while resisting corrosion.
- 4 Carrier's exclusive Silencer System II™** – helps deliver quieter operation by optimizing airflow, minimizing vibration and using sound-absorbing materials. The five key components include:
  - a. Silencer top
  - b. Integrated fan motor and forward-swept fan blade
  - c. Compressor vibration isolator plate
  - d. Sound hood
  - e. Split-post compressor grommets
- 5 High- and low-pressure switches** – protect the system by shutting it off when harmful conditions are detected.
- 6 Filter drier** – constantly filters the refrigerant to remove moisture or contaminants that can damage your system.
- 7 WeatherArmor Ultra™ protection package** – combines three design elements that protect your comfort.
  - a. Galvanized steel cabinet
  - b. Louvered coil guard
  - c. Baked-on powder paint



## Specifications

Air Conditioners	Infinity™ System	Infinity™ Controls	Two-Stage Compressor	Scroll Compressor	SEER Rating	Energy Star®	Puron® Refrigerant	Silencer System II™	Sound Ratings Under 75 dB
Infinity™ 21					Up to 21.0				
Infinity™ 17					Up to 17.0				
Performance™ Series		*			Up to 16.0	*	*		
Comfort™ Series					Up to 16.0	*	*		*

\*Not available on all models

## Limited Warranty

To the original owner, the Carrier® Infinity 21 air conditioner is covered by a 10-year parts 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 restrictions are not allowed will automatically receive a 10-year parts warranty. See warranty certificate at carrier.com for complete details.



## Efficiency

Seasonal Energy Efficiency Ratio, or SEER, is like gas mileage. A higher SEER rating means a more energy-efficient air conditioning system. As of mid-January of 2006, the U.S. Department of Energy required home cooling systems to meet a minimum rating of 13.0 SEER. Carrier was one of the first leading air conditioner manufacturers to fully support this environmentally sound mandate.

The Carrier Infinity 21 air conditioner is available with efficiency ratings of up to 21.0 SEER – one of the highest SEER ratings offered.

As an ENERGY STAR® partner, Carrier Corporation has determined that the Infinity 21 air conditioners that achieve system combinations of 14.5 SEER and 12.0 EER or higher meet ENERGY STAR guidelines for energy efficiency.



Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your dealer for details or visit [www.energystar.gov](http://www.energystar.gov).

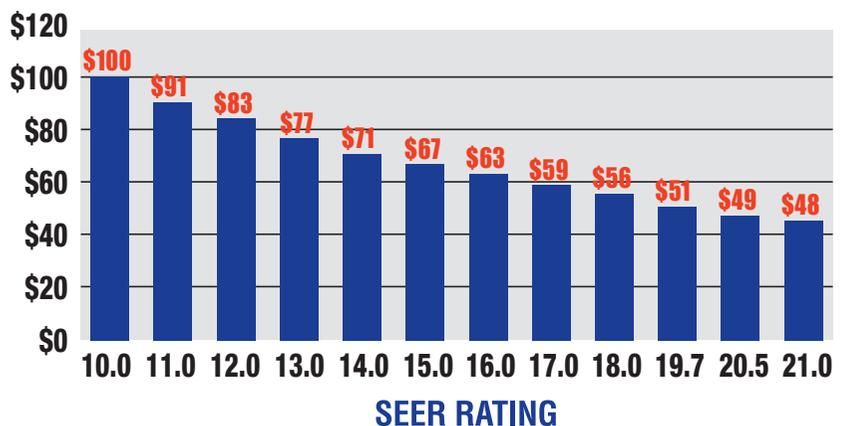


## Ultra High-Efficiency Air Conditioner Designed with Your Comfort in Mind



## Greater Operational Efficiency

For every \$100 spent to cool your home using a 10.0 SEER air conditioner, a 21.0 SEER air conditioner should cost you approximately \$48. Actual savings will depend on the efficiency of your current system compared to the efficiency of a new system.



Operating cost estimate based on a 3-ton system.



## 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

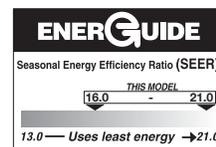
A member of the United Technologies Corporation family.  
Stock Symbol UTX.

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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 24ANA1



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