

# Infinity™ 16 Heat Pump with Puron® Refrigerant



Turn to the Experts.™

INFINITY SERIES



Ultra High Efficiency Heat Pump with up to 16.0 SEER and 9.0 HSPF

## Comfort

- Carrier's exclusive ComfortHeat™ Heat Pump System features two stages, allowing the heat pump to operate for longer periods at a lower stage. 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.



- Carrier's Hybrid Heat™ delivers peace of mind to homeowners concerned about the unpredictable nature of utility costs. Hybrid Heat pairs a gas furnace with an electric heat pump to provide comfort, economy and flexibility. Your Carrier Hybrid Heat system will automatically switch between electric and gas heating as needed to keep your home comfortable all winter long while optimizing the efficiencies of each fuel source. And, because the heat pump also delivers cool comfort when it's hot outside, your Hybrid Heat system is a complete, year-round indoor comfort solution. Ask your Carrier dealer if Hybrid Heat is right for you.



## 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 Infinity™ 16 heat pump 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 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.
  - 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? IdealHumidity™ monitors and adjusts your home's humidity level even when the system isn't actively heating or cooling.† To achieve IdealHumidity in your home, add a Carrier humidifier, variable speed furnace or fan coil and Infinity™ Control to your system.



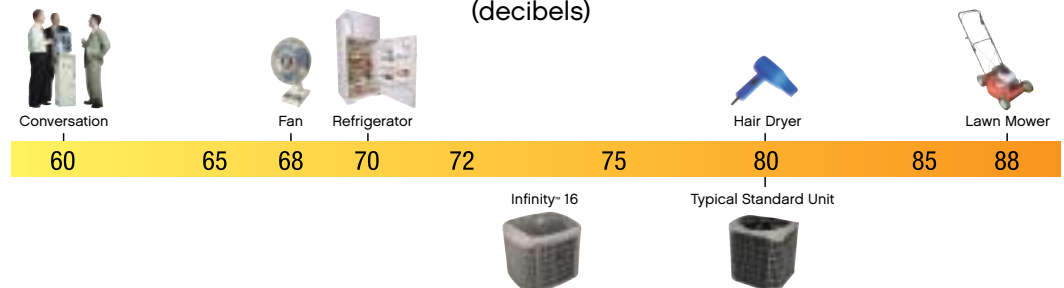
*IdealHumidity™*

### Sound

Carrier's exclusive Silencer System II™ ensures extra-quiet operation by maximizing airflow and minimizing vibrations. With sound ratings as low as 74 dBA, the Infinity™ 16 heat pump is almost 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.

† IdealHumidity™ continually monitors indoor humidity, indoor temperature and outdoor temperature, and has the ability to turn on your comfort system just for dehumidification.

# 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** inhibits the growth of contaminants on the indoor coil.

**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.

**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 – they're 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

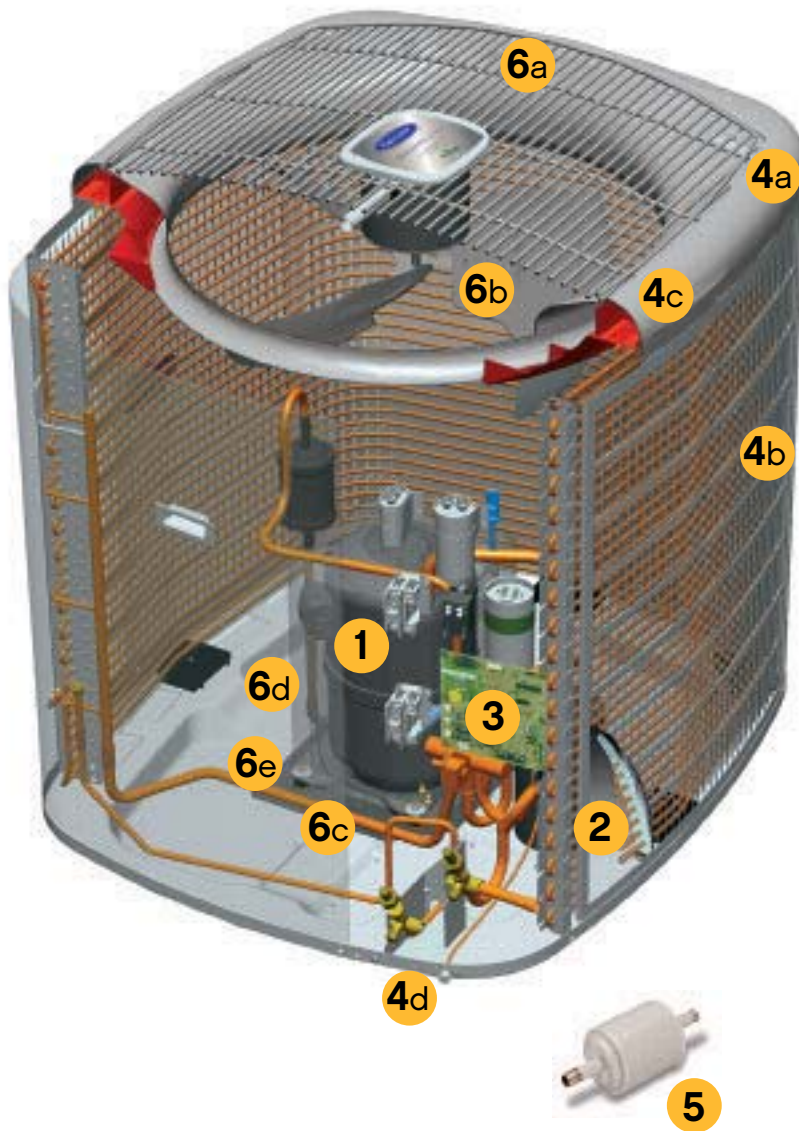
- Forward-swept fan blades maximize airflow for enhanced performance and sound reduction.
- Filter drier removes moisture and debris from refrigerant to protect the compressor and maintain top efficiency and performance.
- Carrier's two-stage compressor has the most trouble-free performance record of any compressor on the market today.

INFINITY™ SERIES

## Technology

### Puron® refrigerant

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



- 1 Two-stage compressor**  
– the heart of the heat pump, the compressor pumps refrigerant through the system.
- 2 Copper Microtube™/aluminum fin coil** – transfers heat outside to maximize indoor cooling while resisting corrosion.
- 3 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.
- 4 WeatherArmor Ultra™ protection**  
– combines four design elements that protect your comfort.
  - a. Galvanized steel cabinet
  - b. Louvered coil guard
  - c. Baked-on powder paint
  - d. Painted, ceramic-coated screws
- 5 Filter drier** – constantly filters the refrigerant to remove moisture or other contaminants that can harm your system.
- 6 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

## Specifications

| Heat Pumps          | Infinity™ System | Infinity™ Controls | Two-Stage Compressor | Scroll Compressor | SEER Rating (Up To) | HSPF Rating (Up To) | Energy Star® | Puron® Refrigerant | Silencer System II | Sound Ratings Under 75 dB | Hybrid Heat™ Compatible |
|---------------------|------------------|--------------------|----------------------|-------------------|---------------------|---------------------|--------------|--------------------|--------------------|---------------------------|-------------------------|
| Infinity™ 19        | ✓                | ✓                  | ✓                    | ✓                 | 19.0                | 9.0                 | ✓            | ✓                  | ✓                  | ✓                         | ✓                       |
| Infinity™ 16        | ✓                | ✓                  | ✓                    | ✓                 | 16.0                | 9.0                 | ✓*           | ✓                  | ✓                  | ✓                         | ✓                       |
| Performance™ Series |                  | ✓                  |                      | ✓                 | 15.0                | 8.6                 | ✓*           | ✓*                 | ✓                  | ✓                         | ✓                       |
| Comfort™ Series     |                  |                    |                      | ✓                 | 14.0                | 8.3                 | ✓*           | ✓*                 |                    | ✓*                        | ✓                       |

\*Not available on all models

## Warranty

The Carrier Infinity™ 16 heat pump is protected by 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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## Efficiency

Because heat pumps provide both heating and cooling, their efficiency is measured with two distinct ratings. While in the cooling mode, heat pumps receive a Seasonal Energy Efficiency Ratio or SEER number. SEER is like gas mileage. The higher the gas mileage or SEER, the more efficient the automobile or system is. Most new heat pumps rate between 13.0 and 19.0 SEER.

While in the heating mode, heat pumps also receive a Heating Seasonal Performance Factor or HSPF rating. Again, the higher the number, the more efficiently the system works. Most new units have ratings between 7.7 and 9.0 HSPF.

- As an ENERGY STAR® partner, Carrier Corporation has determined that the Infinity™ 16 heat pumps that achieve system combinations of 14.0 SEER, 8.2 HSPF and 11.5 EER or higher meet the ENERGY STAR® guidelines for energy efficiency.

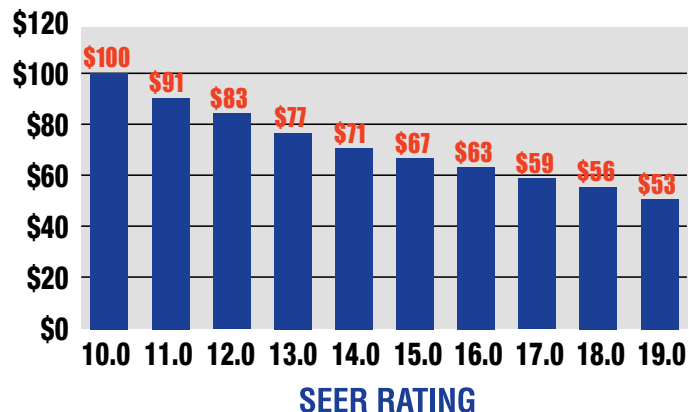


## Ultra High Efficiency Heat Pump Designed with Your Comfort in Mind



## Greater Operational Efficiency

Carrier's Infinity™ 16 heat pump is available with efficiency ratings of up to 16.0 SEER when cooling and up to 9.0 HSPF when heating. For every \$100 spent to cool your home using a 10.0 SEER heat pump, a 16.0 SEER heat pump should cost you approximately \$63. 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.

