

Infinity® Air Purifier

Carrier®

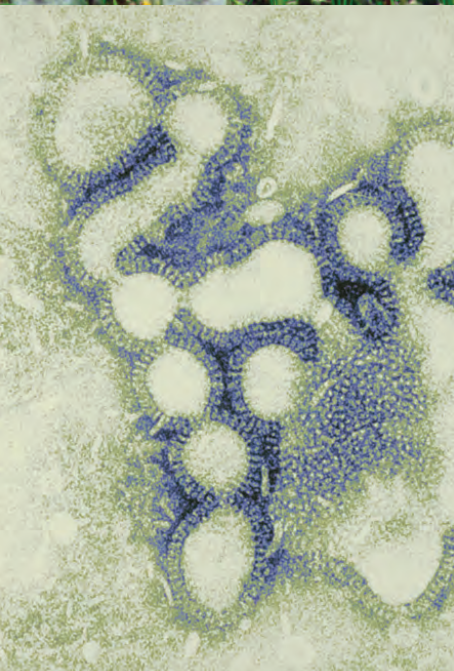
turn to the experts™



INFINITY™ SERIES



The Cornerstone of Carrier's Healthy Home Solutions



Things to Consider Before You Buy

Carrier specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating, cooling and indoor air quality products. Your Carrier® dealer can help you choose the best system for your home that includes industry exclusive, state-of-the-art air purification technology.

How Important is Indoor Air Quality?

Considering that most people spend 90 percent of their time indoors, breathing an estimated 2,300 gallons of air every day, indoor air can be a key factor in your quality of life. Indoor air pollution can aggravate allergies, asthma, and other respiratory ailments.

How Clean is Your Indoor Air?

Your home is the one place you should feel safe, it's your comfort zone. However, the air inside your home could be up to five times more polluted than outside air. Pollen and mold spores enter through open doors and windows, bacteria and viruses spread between family and friends, fine dust particles get kicked up from floors and furniture, dander and hair fall from pets. These contaminants can circulate in the air throughout your home spreading disease or triggering allergic and asthmatic reactions. You don't need to hold your breath. Carrier has a complete line of air filtration and purification products designed to enhance the air quality in your home – led by the exclusive Infinity® air purifier.



Healthier Air for the Entire Home

The Infinity air purifier is Carrier's premier air purification solution. It's ideal for homeowners with allergy concerns, those susceptible to airborne germs, such as infants and the elderly, and those sensitive to the effects of molds, pollen, pets and more. And, it is an integral component to Carrier Healthy Home Solutions.

- The Infinity air purifier offers extremely high air filtration efficiency and patented germicidal technology so effective it even captures and kills airborne pathogens such as bacteria, viruses and mold.
- The Infinity air purifier uses the same exclusive technology trusted to protect secure government facilities and hospital room patients.
- Unlike many portable air cleaners, the Infinity air purifier is extremely quiet and can treat the air throughout your entire home. In fact, the Infinity air purifier cleans over 100 times more air than some of the popular portable units.
- The Infinity air purifier is as convenient as it is powerful because no cleaning is required. Simply remove and replace the media cartridge periodically to maintain peak performance.

How Does It Work?

Truly a whole-home solution, the Infinity® air purifier treats 100% of the air flowing through your home comfort system using a unique three-step process. Here's how it works:

- Step 1:** The Infinity air purifier uses precision point ionization to charge particles as they enter the purifier.
- Step 2:** A specially designed, continuously charged media captures airborne particles.
- Step 3:** Patented, state-of-the-art technology kills captured viruses, bacteria, mold spores and other allergens.



Germicidal Capability

Patented, award-winning technology kills airborne bacteria, viruses and molds.

Physiology		Organism	Kill Rate*
Bacteria	Spore Forming	<i>Bacillus subtilis</i> (Anthrax surrogate)	97% ⁷
	Gram Positive	<i>Mycobacterium Parafortuitum</i> (Tuberculosis surrogate)	99.9% ⁷
		<i>Staphylococcus aureus</i>	97.5% ⁴ 100% ⁵
	Gram Negative	<i>Serratia marcescens</i>	96.6% ¹ 100% ⁴
		<i>Pseudomonas aeruginosa</i>	99.9% ⁷
Virus		<i>Morbillivirus</i> (Measles)	99.9% ¹
		<i>Vaccinia</i> (Smallpox surrogate)	99.9% ⁶
		<i>Coronavirus</i> (SARS)	99.9% ²
		<i>Influenza Wild Type A</i>	99% ¹
		<i>Human Influenza</i>	99% ²
		<i>Avian Influenza</i>	99.9% ³
		<i>Encephalomyocarditis picomaviridae</i> (Human cold virus surrogate)	99.99% ⁴
Fungi		<i>Aspergillus versicolor</i>	99% ⁷

* Kill rate claim is percentage of pathogens captured on the media that were killed or inactivated after continuous exposure to an energized system for the stated time period.

- ¹ After one hour exposure
- ² After two hour exposure
- ³ After five hour exposure
- ⁴ After six hour exposure

- ⁵ After 12 hour exposure
- ⁶ After 18 hour exposure
- ⁷ After 24 hour exposure

IAQ Factoids – Interesting Facts That You Should Know

- The EPA has ranked indoor air pollution as a high-priority public risk.
- According to the EPA, levels of indoor pollutants can be 2 to 5 times higher than outside.
- Most of us spend about 90% of our adult lives indoors.
- 99% of the particles in the air are smaller than 1 micron (1 millionth of a meter). Because they are so small, they remain airborne.
- Household dust is present even in clean homes, and can be composed of mold spores, bacteria, viruses, animal dander, human skin particles, fabric fibers, dust mites, parts of cockroaches, food particles and other debris.
- Inexpensive filters found at local hardware stores are only about 10% efficient for the largest particles.
- Seasonal allergic rhinitis (hay fever) affects more than 35 million people in the U.S.
- Fifty million people in the U.S. suffer from allergies.
- Allergic disease is the fifth leading cause of chronic disease among all ages and third common chronic disease among children under 18.
- 54% of U.S. citizens test positive for one or more allergens.
- There are approximately 20 million asthma sufferers in the U.S., 6 million of them are children. It's the leading chronic illness in children.
- A sneeze can add 100,000 droplets of pathogen-containing moisture to the air. These droplets are called "fomites".
- The average human inhales about 2,300 gallons of air per day.



* Efficiency based on a 16 pt MERV scale

Frequently Asked Questions

Q: Exactly how does the technology work?

A: In step 1, particles entering the air purifier are electrically charged by the precision point ionization array which uses 22,000 volts DC to create dense “clouds” of ions that attach themselves to the particles. In step 2, a specially designed media cartridge is sandwiched between 12,000 volts DC and electrical ground. As a result, a strong electrical field is created across the filter, which causes the negative and positive charges within each filter fiber to separate and migrate to opposite sides of the fiber (polarization). Particles entering the filter are electrically attracted to the oppositely charged part of a fiber resulting in extremely high collection efficiency. In step 3, the intense electric field established across the filter results in a charge separation across the captured pathogen's cell membrane and a stretching of the cell wall. The pathogen is also bombarded by negative ions from the ionization section which further pushes the membrane towards rupture. The net result on captured pathogens is the rupturing of the cell membrane and death.

Q: Why is germicidal capability important?

A: Just capturing pathogens on the filter (like typical systems) doesn't eliminate all the risks associated with poor air quality. Dust, dead skin cells, and other matter collected on the filter provide nutrients on which trapped organisms can grow and, as a result, produce waste products which are then carried downstream into the living space. Certain bacteria, for example, can release endotoxins to which many people are highly allergic. They can irritate the skin, induce respiratory problems, fever, and even shock. In humid environments, mold can multiply and actually grow through a filter and live spores can be distributed throughout the home.

Q: Is the air purifier effective for the H1N1 Swine Flu virus?

A: Claims that a product can produce a health benefit with respect to H1N1 are subject to the jurisdiction of the Food and Drug Administration. The FDA requires that any air cleaning product about which a claim related to H1N1 is published be first certified as a Class II Medical Device. The Infinity® air purifier is not certified as a Class II Medical Device.

Q: How efficient is this unit's filtration?

A: The Infinity air purifier is MERV 15. A MERV rating of 15 indicates the filter achieves 85-95% efficiency for the smallest particles tested.

Q: How long will the filter last?

A: Filter life varies from home to home, and is based on several factors. Most homeowners find that the filter lasts for 8 to 12 months.

Q: How do I know when to change my filter?

A: If your purifier is used in conjunction with the Carrier® Infinity® Control, the control will notify you when it is time to change the filter. Other thermostats may have a timer or reminder built in.

Q: What can happen if someone changes an ordinary inexpensive filter containing live pathogens?

A: The person changing the filter can be exposed to potential health risks. For example: 1) a person may come in contact with a contaminated surface containing live infection-causing pathogens and; 2) movement of the dirty filter can shake loose dust pathogens into the air which could then be inhaled.

Q: Are there any odor control benefits to the Infinity Air Purifier?

A: The Infinity air purifier is capable of capturing very small particles, down to 0.1 micron. Odors associated with the presence of particulates will be reduced. If odor control is a concern, Carrier recommends installing a ventilator to bring in fresh air.

Q: What is the power consumption of the purifier?

A: Approximately 18 watts.

Q: Does the Infinity Air Purifier make any sounds while operating?

A: No. Unlike traditional electronic air cleaners, the purifier creates no zapping noises.

Limited Warranty

To the original owner, the Carrier Infinity air purifier 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 benefits cannot be conditioned on registration will automatically receive a 10-year parts limited warranty. See warranty certificate at carrier.com for complete details.





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.

This Box is to be used as a knock-out for a non-varnished area on a full-spread, full-bleed varnish plate.



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