



**BREATHE CLEANER, FRESHER AIR!**

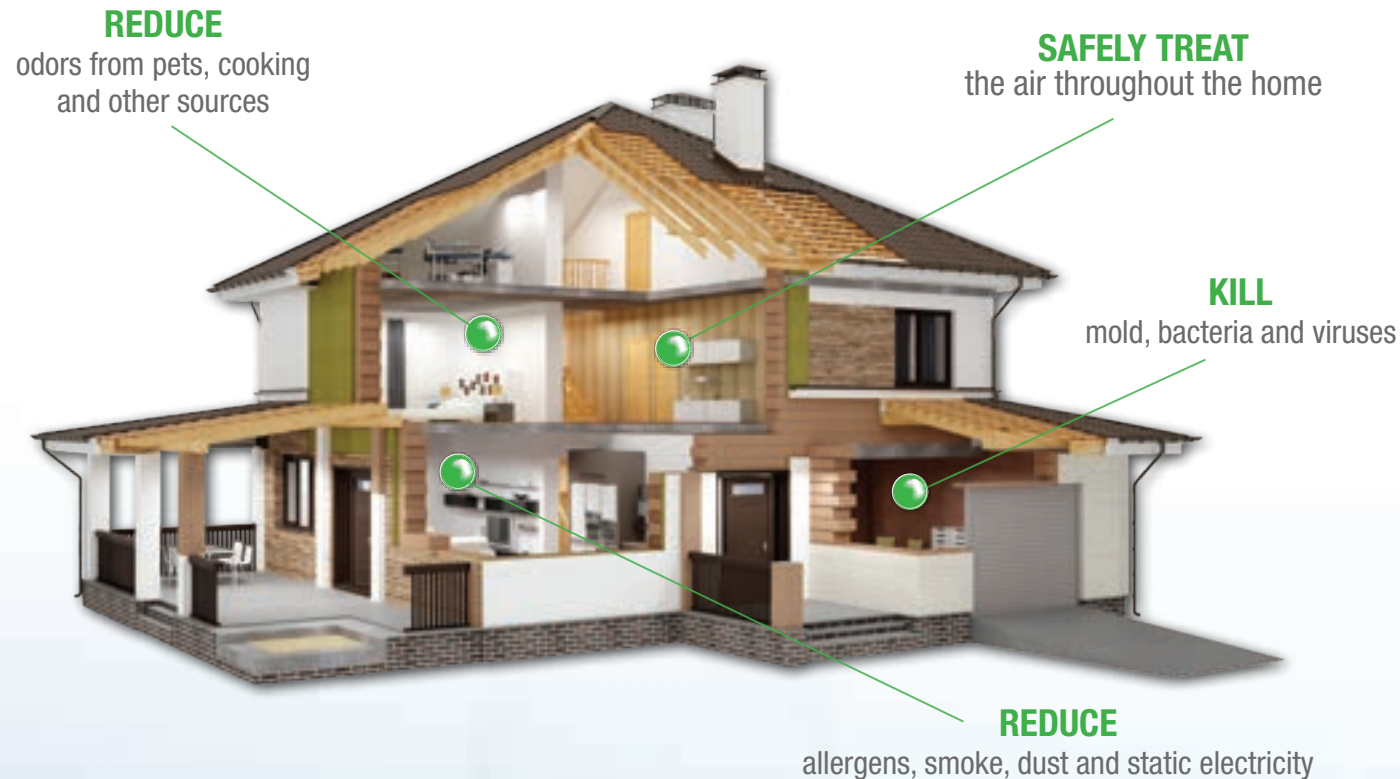


**REDUCES ODORS & ALLERGENS • KILLS MOLD, BACTERIA & VIRUSES**



# IS YOUR HOME'S INDOOR AIR QUALITY MAKING YOUR FAMILY SICK? *iWave*

## iWAVE AIR PURIFIERS ADDRESS THESE ISSUES AND MORE...



## BREATHE CLEANER, FRESHER AIR!



Have you noticed odors from pets, cooking or from your air conditioning system? iWave reduces odors, smoke, static electricity and dust in the air.



iWave safely treats the air, producing no ozone or harmful byproducts. Unlike other air purifiers, iWave requires no bulbs or replacement parts.



Are members of your family more susceptible to allergies or viruses in your home? iWave reduces allergens and kills mold, bacteria and viruses.

## HOW iWAVE WORKS

iWave is an air purifying device that installs in any air conditioning or heating system. When air passes over the iWave, ions produced by the device reduce pathogens, allergens, particles, smoke and odors in the air, creating a healthy environment without producing any harmful byproducts.

### Needle-point bi-polar ionization

iWave uses needle-point bi-polar ionization to create equal amounts of positive and negative ions. When these ions are injected into the air stream and the breathable air space, they break down passing pollutants and gases into harmless compounds like oxygen, carbon dioxide, nitrogen and water vapor. The illustration below demonstrates this process.

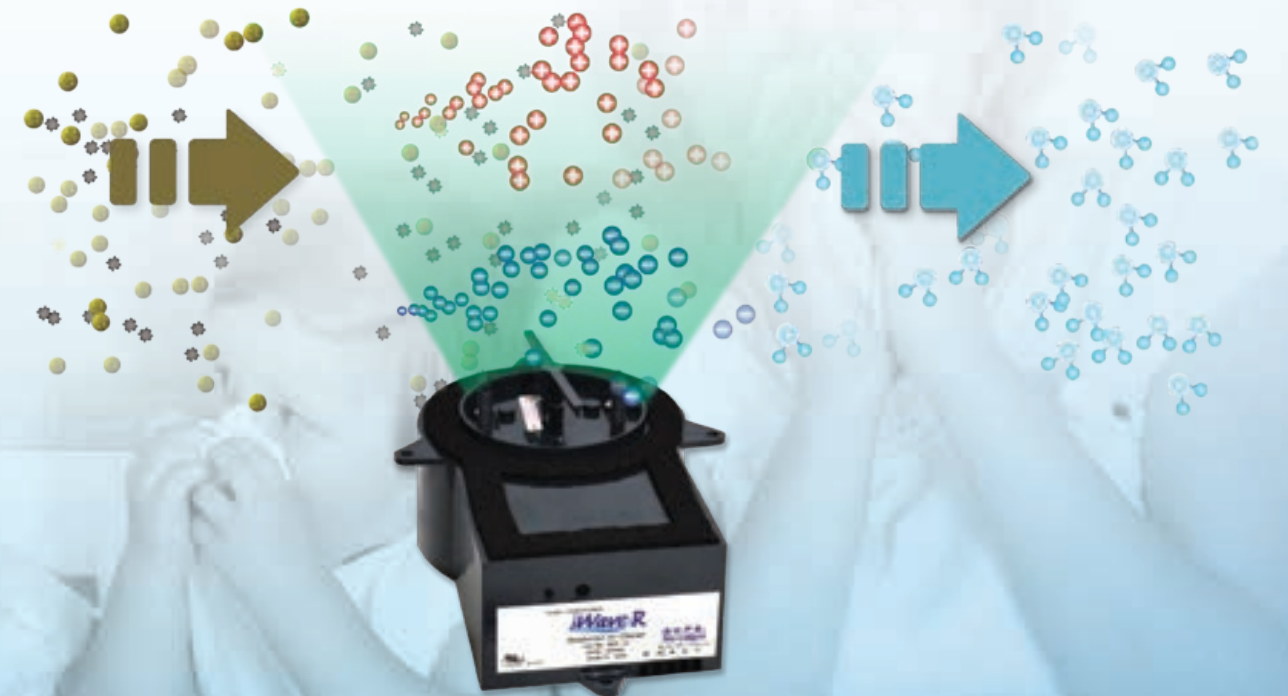
### Ions attack pathogens and allergens

When the ions come in contact with viruses, bacteria or mold, their reaction decomposes surface proteins of these pathogens, thereby inhibiting their activity. The ions also attach to allergens like pollen and other particles like dust and dander, causing them to band together until they are large enough to be caught by your ventilation system's air filter.

### Nature's technology

iWave's technology generates the same ions that nature creates with lightening, waterfalls, and ocean waves, etc. Nature uses energy to break apart molecules, naturally cleaning the air and producing a healthy environment. The only difference between the iWave's technology and nature is that the iWave does it without developing harmful ozone.

**POLLUTED AIR**



iWAVE ION GENERATOR



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## HOW iWAVE COMPARES TO OTHER TECHNOLOGIES



You'll find iWave's advanced technology provides the most effective air purification method. Other common air purification technologies require ongoing maintenance with bulb/cell replacement every year or two, making the cost of ownership undesirable. The iWave models require no replacement parts, and most models require no ongoing maintenance. In fact, with the iWave-R's patent-pending self-cleaning design, you can enjoy years of maintenance-free performance.

| Feature                                  | iWave   | UVPCO Ionizers                                | UV Lights                     |
|--|---|---|-------------------------------|
| Kills pathogens downstream               | Yes   | Yes   | Only line-of-sight pathogens  |
| Controls odors                           | Yes   | Yes   | No                            |
| Reduces airborne particles               | Yes   | Poor <sup>1</sup>                             | No                            |
| Replacement parts required               | No  | UV cell replaced every 1-2 years              | Bulb replaced every 1-2 years |
| Self-cleaning options                    | Yes   | No  | No                            |
| Performance                              | Self-cleaning provides continual peak performance | Fades with UV output                          | Fades with UV output          |
| Harmful byproducts                       | No  | Creates ozone & other byproducts <sup>2</sup> | Some bulbs emit ozone         |
| Cleans entire depth of coil              | Yes   | Yes   | Cleans only one side          |
| Mercury in airstream                     | No  | Yes   | Yes                           |
| Energy required                          | < 10 watts  | > 60 watts                                    | > 60 watts                    |
| Universal voltage                        | Most models                                       | Most models don't                             | No                            |
| Robust construction                      | Solid state design                                | UV bulbs can break                            | UV bulbs can break            |
| UV material breakdown                    | No  | UV lights hard on plastic                     | UV lights hard on plastic     |
| Contains Titanium Dioxide                | No  | Typically                                     | No                            |
| Three Year Limited Warranty <sup>3</sup> | Yes   | Replace parts in 1-2 years                    | Replace parts in 1-2 years    |

<sup>1</sup> Based on third party data comparing market technologies.  
<sup>2</sup> ASHRAE position document on filtration and air cleaning, January 2015  
<sup>3</sup> Nu-Calgon offers a three-year limited warranty on iWave products. For a valid warranty claim within three years, proof of purchase and proof of installation by a licensed HVAC or electrical contractor must be provided. See full warranty for complete details.

## iWAVE PATHOGENS TEST RESULTS

All tests were run using proprietary NPBI™ technology.


**SARS-CoV-2 (Covid-19)**

TIME IN CHAMBER

30 MINUTES

RATE OF REDUCTION

99.4%



This test was run using the iWave-C Air Purifier P/N 4900-10 in a test designed to mimic ionization conditions like that of a commercial aircraft's fuselage.

Based on viral titrations, it was determined that at 10 minutes, 84.2% of the virus was inactivated. At 15 minutes, 92.6% of the virus was inactivated, and at 30 minutes, 99.4% of the virus was inactivated.


**Human Coronavirus 229E**

TIME IN CHAMBER

60 MINUTES

RATE OF REDUCTION

90%



This test was run in a test chamber in a lab setting with the Nu-Calgon iWave-R Air Purifier P/N 4900-20.

A petri dish containing a pathogen is placed underneath a laboratory hood, then monitored to assess the pathogen's reactivity to Needle Point Bi-polar Ionization (NPBI) over time. This controlled environment allows for comparison across different types of pathogens.

iWave's Needle Point Bi-polar Ionization (NPBI) technology is used in a wide range of applications across diverse environmental conditions. Since locations will vary, clients should evaluate their individual application and environmental conditions when making an assessment regarding the technology's potential benefits.



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## APPLICATIONS & FEATURES

| Application                            | iWave-R<br>4900-20 | iWave-V<br>4900-40 | iWave-C<br>4900-10 | iWave-M<br>4900-35 |
|--|--------------------|--------------------|--------------------|--------------------|
| Residential Duct HVAC Systems          | ✓                  | ✓                  | ✓                  |                    |
| Light Commercial Duct HVAC Systems     |                    |                    | ✓                  |                    |
| Residential - Mini-Split A/C Systems   |                    |                    |                    | ✓                  |
| Commercial - VRF A/C Systems           |                    |                    |                    | ✓                  |
| PTAC Systems                           |                    |                    |                    | ✓                  |
| Transport HVAC Systems                 |                    |                    |                    | ✓                  |
| Ice Machines to Reduce Mold in Cabinet |                    |                    |                    | ✓                  |

| Features  | iWave-R        | iWave-V        | iWave-C        | iWave-M        |
|---|----------------|----------------|----------------|----------------|
| Patented Self-Cleaning Technology                             | ✓              |                | ✓              |                |
| No Replacement Parts Required                                 | ✓              | ✓              | ✓              | ✓              |
| No Maintenance  | ✓              | *              | ✓              | *              |
| Kills Mold, Bacteria, and Viruses                             | ✓              | ✓              | ✓              | ✓              |
| Controls Odor (Cooking, Pet, VOCs)                            | ✓              | ✓              | ✓              | ✓              |
| Reduces Allergens   | ✓              | ✓              | ✓              | ✓              |
| Prevents/Eliminates Dirty Sock Syndrome                       | ✓              | ✓              | ✓              | ✓              |
| Controls Particles in Air                                     | ✓              | ✓              | ✓              | ✓              |
| Reduces Smoke   | ✓              | ✓              | ✓              | ✓              |
| Reduces Static Electricity                                    | ✓              | ✓              | ✓              | ✓              |
| Actively Treats Pathogens in Space (entire coil/living space) | ✓              | ✓              | ✓              | ✓              |
| Universal Voltage (24-240VAC)                                 | ✓              | 24VAC          | ✓              | 110-240VAC     |
| UL and cUL Approved   | ✓              | ✓              | ✓              | ✓              |
| Universal Mounting  | ✓              | ✓              | Duct Mounted   | ✓              |
| Customizable Length   |                |                |                | ✓              |
| Digital Display/Weatherproof Housing                          |                |                | ✓              |                |
| Alarm Contact Option for Notification                         | ✓              |                | ✓              |                |
| Replaceable Emitters  | ✓              |                | ✓              |                |
| Service Temperature Range                                     | -40°F to 160°F | -40°F to 160°F | -40°F to 160°F | -40°F to 140°F |
| Three Year Limited Warranty                                   | ✓              | ✓              | ✓              | ✓              |

\* The iWave-M and iWave-V require low maintenance. The emitters may require a wipe with damp cloth or compressed air from time to time to ensure ionizer tips are clear of particles. After power is turned off, the carbon bristles on the iWave-V should be looked at periodically (every time the air filter is replaced) to ensure they are clean for optimum performance.

## AVAILABLE MODELS



**iWave-R**  
Self-cleaning, maintenance-free air purifier for residential systems



**iWave-C**  
No maintenance air purifier for commercial and residential systems



**iWave-V**  
Low maintenance air purifier for residential systems



**iWave-M**  
Mini flexible air purifier for mini-splits and other systems

"...I purchased your product for the intention of getting rid of dog smell, dust and my wife's allergy problems. I want to inform you that all three complaints are 90-100% improved. My wife and I are very pleased with this product."

Service Manager —  
Dring Air Conditioning & Heating

"...I have to say the overall impact on what it accomplished was dramatic...I immediately noticed a difference in the smell, and within 24 hours, the smell was completely gone."

Dr. Jeff Young—Planned Pethood Plus

"...As someone who suffers with allergies and asthma, I have seen vast improvement in my health after installation...I can say that the energy savings in commercial applications and health benefits of the device appear to be well worth the cost."

Thomas—M&H Engineering LL



**See more testimonials at [iwaveair.com](http://iwaveair.com)**

**A quality product from**



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