



**ARMSTRONG**  
COMFORT SOLUTIONS

• HEATING • COOLING • PLUMBING •

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## WHAT IS iWAVE?

iWave is a powerful needlepoint bipolar ionization device that targets air pollutants and pathogens in your air stream. iWave helps clean the airspace by binding positive and negative ions to pollutants, or particulate, and turns them into harmless compounds.

## HOW DOES iWAVE WORK?

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

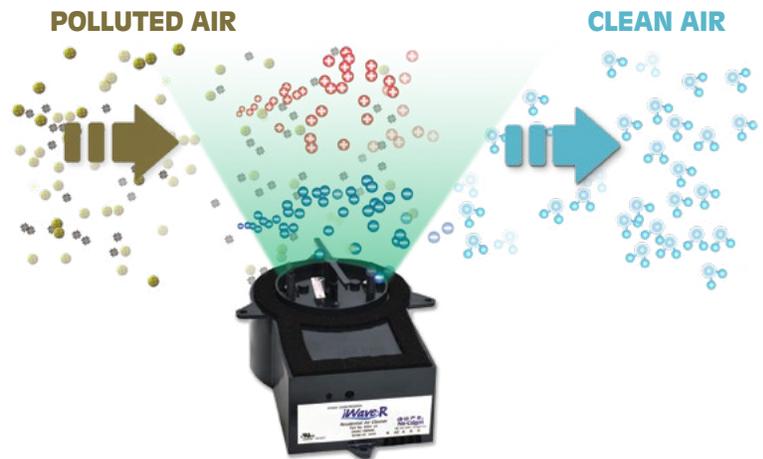
iWave uses needle-point bi-polar ionization to create equal amounts of positive and negative ions. When these ions are injected into the air stream and the breathable air space, they break down passing pollutants and gases into harmless compounds like oxygen, carbon dioxide, nitrogen and water vapor.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



## HOW CAN iWAVE HELP YOU?

By installing iWave devices in your home, you are ensuring a healthier and safer environment for yourself and your family! iWave Continuously treats the airspace and surfaces located in that said airspace for the lifetime of the system. It's no maintenance and has a preprogrammed self-cleaning cycle. iWave is the ultimate all-in-one solution for your sanitation needs.



## PATHOGEN 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%

3<sup>RD</sup> Party  
LAB TESTED

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%

3<sup>RD</sup> Party  
LAB TESTED

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 Needlepoint Bi-polar Ionization (NPBI) over time. This controlled environment allows for comparison across different types of pathogens.

iWave's Needlepoint 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.