

nuwave  
**OxyPure**<sup>®</sup>  
Smart Air Purifier



Welcome to a World of Cleaner Air!

# Congratulations!

By purchasing your new NuWave® OxyPure®, you have taken a vital step towards better health for you and your family.

Studies from the U.S. Environmental Protection Agency have shown that indoor air could be as much as 5 times more polluted than outdoor air. This means that the air you breathe at home can be spreading bacteria, viruses, and molds while allergens and particulate pollution exacerbate sleeping and respiratory problems, and fumes, exhausts and volatile organic chemicals lead to other health issues.

However, independent testing done by the internationally respected Intertek™ Labs confirms that your OxyPure will cleanse your air of these airborne pathogens, mold, and mold spores, allergens and other particulate pollutants, volatile organic chemicals, fumes, and exhausts. In fact, the OxyPure is proven to remove 99% of airborne dust within 30 minutes, and 100% within 100 minutes. These tests have earned the OxyPure certifications from:



**Intertek Electrical  
Testing Lab**



**California Air  
Resource Board**



**U.S. Environmental  
Protection Agency**



**Underwriters  
Laboratories**



**Conformité Européenne**  
(European Union Health and  
Safety Standards)

Other air purifiers can clean the air of dust particles and airborne bacteria, but these often allow harmful viruses to pass right through while filling your home with negative ions.

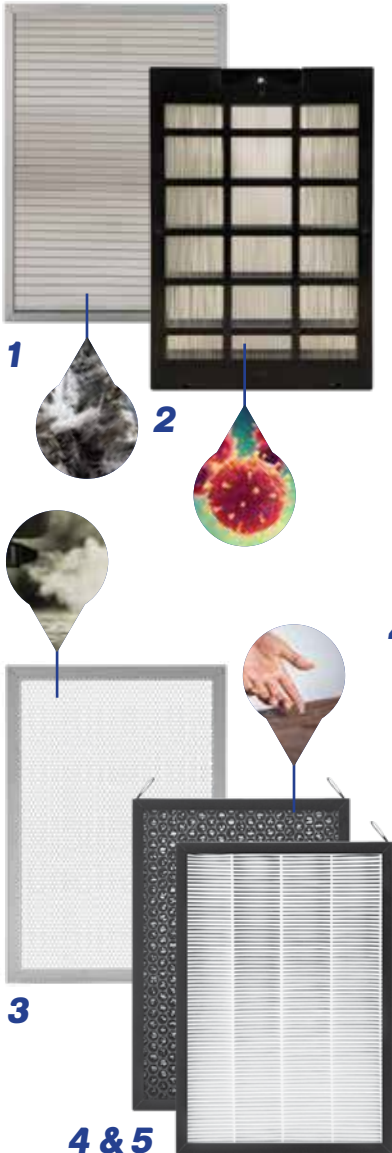
The OxyPure goes above and beyond most air purifiers by cleaning the air in areas over 1,200 ft<sup>2</sup>, while releasing less than 10 negative ions and no harmful ozone into the air. With long-lasting filters and exceptionally low energy consumption, the OxyPure's cost of ownership is so low that it practically pays for itself, it can run all year long (24/7) for under \$10.00! With the OxyPure, you truly can breathe easy.

\*Effective for Large Spaces up to 1,200 square feet with 2 air exchanges per hour. H3N2 Influenza (99.96%) with 1 hour of detection, Staphylococcus Albus (99.99%), Staphylococcus Aureus (99.99%), Aspergillus Niger (99.99%), Escherichia Coli (99.99%) within 2 hours of detection – Intertek™ Testing Services, Ltd. Smoke (100%), Dust (100%) – Intertek™ Testing Services, Ltd.

**NuWave LLC**

## A Closer Look

In conjunction with its powerful fan and air quality sensors, the OxyPure's 5-filter system, including the patent-pending Bio-Guard filter, ensures that your air is clean and healthy.



**1** The rust-free 18/8 Stainless-Steel Pre-Filter captures larger particles, pollutants, and allergens such as pollen, pet hair, and dander. Unlike the plastic filters used by other machines, the Pre-Filter is durable, strong, lasts longer, it's washable and reusable for up to 20 years.

**2** The Bio-Guard™ Filter captures 100% of particle pollutants as small as 0.09 microns in 100 minutes. It eliminates up to 99.99% of airborne molds and bacteria, and 99.96% of airborne flu viruses within 2 hours\*.

**3** The Ozone Emission Removal Filter eliminates harmful ozone gas (O<sub>3</sub>) from the home to less than 1 part per billion (ppb), 70 times less than the EPA's household standards of 70 ppb. It can be cleaned with a vacuum or a dry cloth (do not wash) and lasts up to 20 years.<sup>1</sup>

### 4 & 5

The two-in-one combination HEPA/Carbon Filter traps particles and allergens such as pollen, dust mites, molds and spores; as well as industrial, household, and vehicle fumes and emissions; VOCs such as formaldehyde, benzene and other cleaning chemicals; and household and cooking odors. The HEPA/Carbon Filter has a lifespan up to 1 year.

Thanks to the 5 layers of protection available in just 4 cartridges, the OxyPure has been certified by the U.S. Environmental Protection Agency's EnergyStar, and the California Air Resources Board (CARB) based on tests done at Intertek Labs.

\*Bacterial and Mold tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. Viral tests were performed in a 10 m<sup>3</sup> (353 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 1 hour by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

<sup>1</sup>The EPA standard for ozone particulate allowance is 70 parts per billion (ppb) for all states, excluding the State of California. The ozone particulate allowance for California is 50 ppb.

# Sensors, Controls, and Automatic Settings

**The OxyPure® is easy to use with automatic sensors, intuitive controls and features that make keeping the air in your home clean a breeze.**

## **OxyPure Sensors**

The OxyPure senses air quality and odors and displays each on a color coded, six-level display that shows you at a glance how clean or dirty the air is, allowing you to take action at once.

## **Six Fan Speeds**

The OxyPure's powerful, whisper-quiet DC Motor offers a full range of fan speeds, from a gentle breeze to turbo, that lets you clean the air at your pace, and comfort level.

## **Wi-Fi-Enabled**

You can track, monitor, and operate the OxyPure from virtually anywhere using the NuWave Connect app and your smartphone.

## **Eco-Friendly Mode**

The OxyPure remains off until the unit detects poor air quality. When that happens, the OxyPure activates to clean the air, adjusting the fan speed based on air quality and shutting off when the air is clean. This function, unique to the OxyPure, is a huge energy-saver.

## **Sleep Mode**

Turns off all indicator lights and allows for flexible fan speeds and noise levels to promote ideal sleeping conditions.

## **Ultimate Clean Mode**

When the OxyPure's sensors detect poor air quality, the fan speed goes to maximum (Level 6) to clean the air as quickly as possible. Once the air quality has improved, the fan speed goes to Level 1.

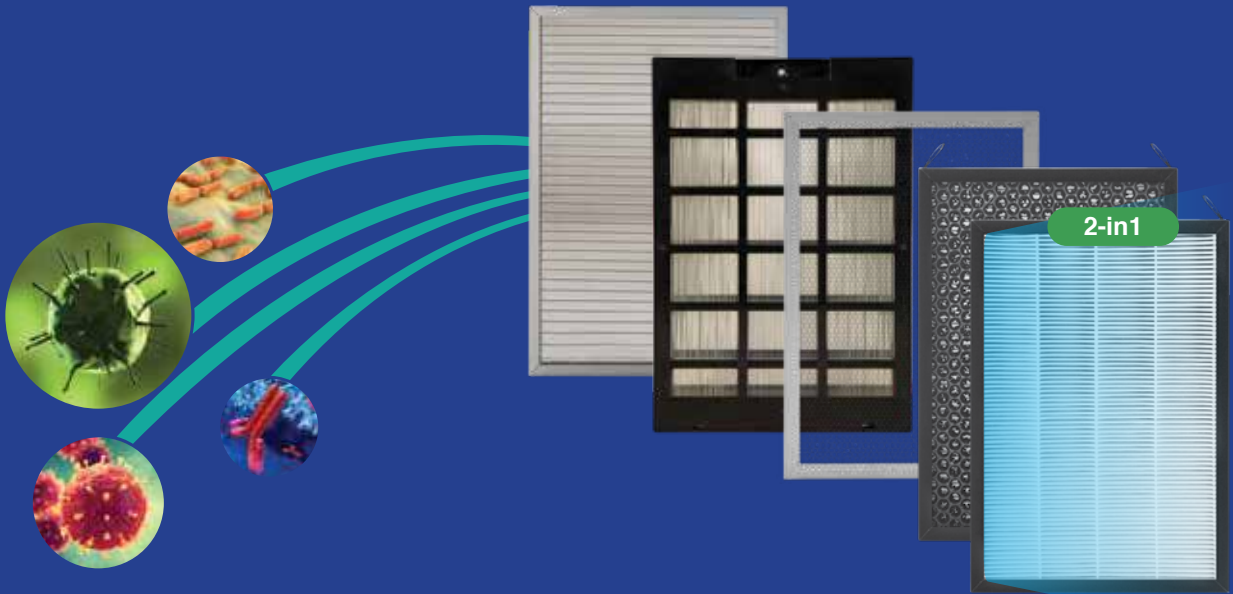


## The Most Advanced Air Purifier on the Market Today



# Air Purifier Efficiency - Pathogens

The OxyPure® removes 99.96% of viruses and 99.99% of bacteria, and mold within 2 hours of detection, removing these potentially deadly contaminants as opposed to simply trapping them alive until the next filter cleanse. **Our revolutionary 5 layer filtration system removes allergens and pathogens from spaces up to 1,200 square feet.†**



† Effective for Large Spaces up to 1,200 square feet with 2 air exchanges per hour. H3N2 Influenza (99.96%) with 1 hour of detection, Staphylococcus Albus (99.99%), Staphylococcus Aureus (99.99%), Aspergillus Niger (99.99%), Escherichia Coli (99.99%) within 2 hours of detection – Intertek™ Testing Services, Ltd. Smoke (100%), Dust (100%) – Intertek™ Testing Services, Ltd.

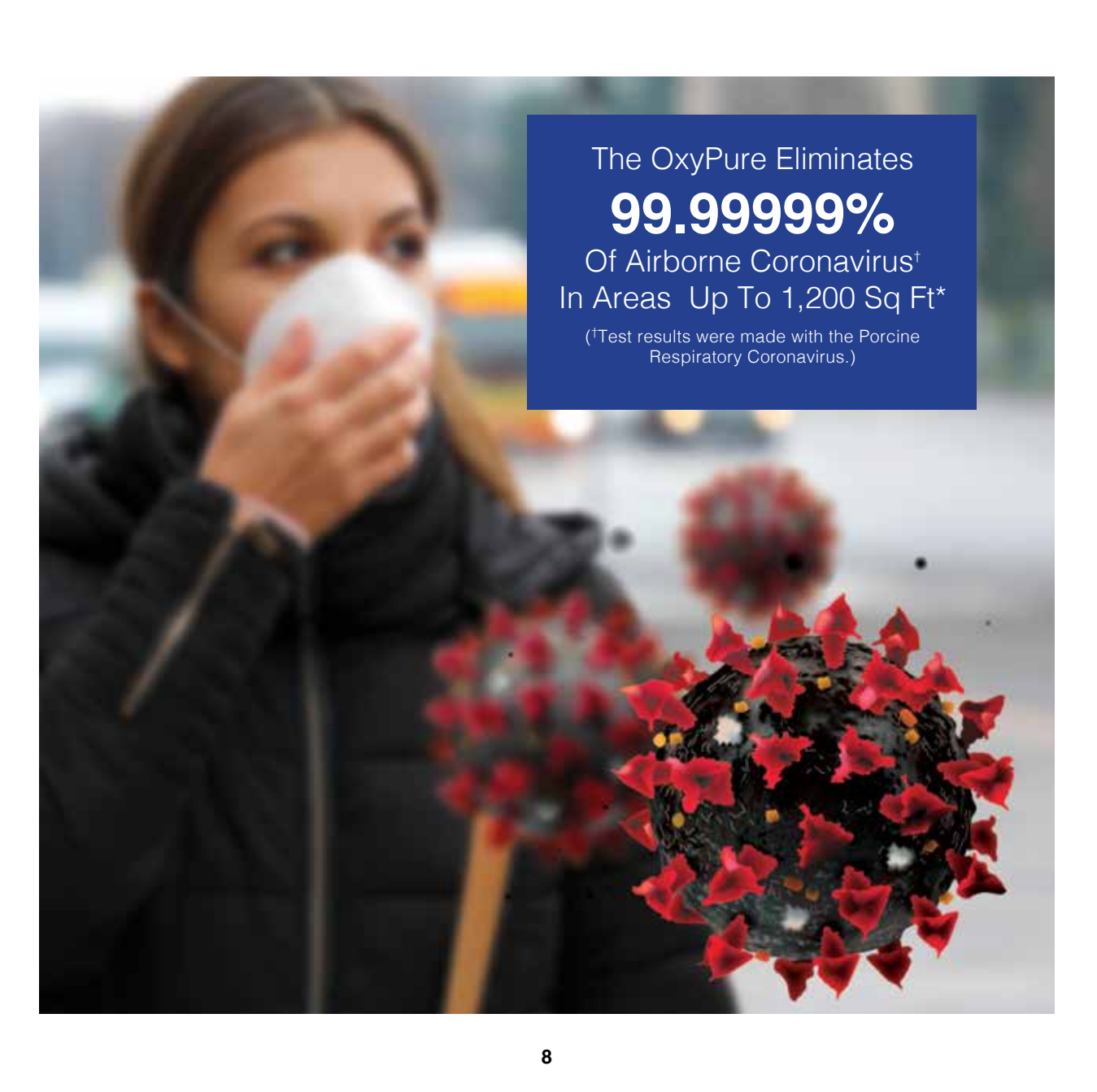
Bacterial and Mold tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. Viral tests were performed in a 10 m<sup>3</sup> (353 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 1 hour by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

## In 2 Hours, OxyPure® Destroys Nearly All Viruses & Bacteria

The OxyPure's advanced technology and versatile design does more than just filter the air, it eliminates indoor air pollution and airborne pathogens quickly and easily.



Bacterial and Mold tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. Viral tests were performed in a 10 m<sup>3</sup> (353 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 1 hour by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).



The OxyPure Eliminates  
**99.99999%**  
Of Airborne Coronavirus<sup>†</sup>  
In Areas Up To 1,200 Sq Ft\*

(<sup>†</sup>Test results were made with the Porcine  
Respiratory Coronavirus.)



# Coronavirus

Coronavirus describes many round viruses, one to two microns in diameter, with knobs on the exterior that provide a crown-like effect, giving this family of viruses its name. While coronaviruses are primarily responsible for minor illnesses such as the common cold, several novel coronaviruses have emerged that are far more dangerous with significantly higher mortality rates.

In 2002, Severe Acute Respiratory Syndrome (SARS) was first reported in Southern China; and in 2012, Middle East Respiratory Syndrome (MERS) emerged in Saudi Arabia. In 2019, a new Coronavirus, SARS-CoV-2, emerged in Wuhan, China, and exploded across the world. That is Covid-19. Symptoms are similar to the flu with fever, cough, chills, muscle pain, headache, sore throat, nasal congestion, nausea or vomiting, and diarrhea.

However, there is also difficulty breathing and a new loss of taste or smell. <sup>1</sup> People with chronic health conditions like diabetes, hypertension, heart disease, asthma, Chronic Obstructive Pulmonary Disease (COPD), and obesity are at greater risk and should take extra precautions to avoid infection, including using an air purifier such as the OxyPure that can remove the coronavirus from the air.

\*The OxyPure Eliminates 98.24% of Airborne Coronavirus on the First Pass. Effective for Large Spaces up to 1,200 square feet with 2 air exchanges per hour. Testing performed at the University of Minnesota of the OxyPure's removal of the Porcine Respiratory Coronavirus, a surrogate for SARS-CoV-2. Based on test results, UofM made a calculation for a 1,200 square foot room with the OxyPure filtering for 8 hours on Level 6 to remove 99.99999% of Coronaviruses. <sup>1</sup>National Foundation for Infectious Disease (nfid.org).

## Testing by the University of Minnesota

The removal efficiency of the OxyPure® was tested against an aerosolized porcine respiratory coronavirus by the University of Minnesota Department of Mechanical Engineering.

The OxyPure was sealed within a custom-built and calibrated wind tunnel designed to ensure a uniform particle (virus) flow and concentration in and out of the OxyPure.

Sampling instruments were placed both upstream and downstream to show the concentrations before the flow entered the OxyPure and after it exited the unit.

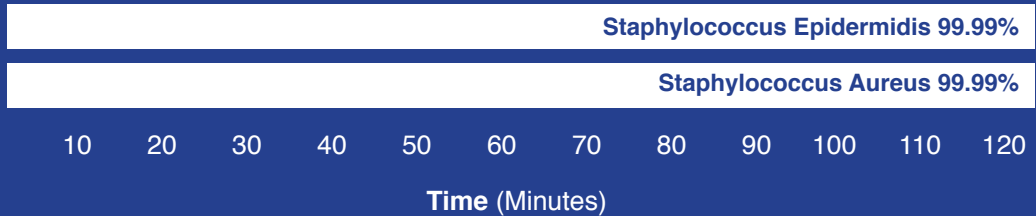


The porcine coronavirus was nebulized upstream for 30 minutes. Aerosolization and sampling experiments were performed three (3) times, with 270 mL of concentrated virus suspension for each test. Following each test, the sampling instruments were swabbed and pooled, and the virus concentration recovered was determined for upstream and downstream samples. Genetic analysis was performed to determine the amount of viral RNA present in the samples upstream and downstream. Finally, swab samples were collected from within the OxyPure Bio-Guard™ and Carbon/HEPA filters immediately following testing, as well as one hour after testing with the OxyPure unit remaining in operation.

<b>1,200 Square Foot Room</b>	<b>Level 1 (70 CFM)</b>	<b>Level 6 (350 CFM)**</b>
2 Hours	57.65945%	98.63923%
4 Hours	82.07278%	99.98148%
6 Hours	92.40951%	99.99974%
8 Hours	96.78614%	99.99999%
<b>Number of Air Changes</b>	<b>Level 1 (70 CFM)</b>	<b>Level 6 (350 CFM)**</b>
2 Hours	0.88	4.38
4 Hours	1.75	8.75
6 Hours	2.63	13.1
8 Hours	3.50	17.5
**Assumes the collection efficiency is not flow rate dependent		

Calculated removal efficiencies and number of air exchanges in a 1,200 ft<sup>2</sup> and 8 ft. ceiling height room (9,600 ft<sup>3</sup>), operating a sealed OxyPure Unit in the Level 1 setting (70 CFM) and the Level 6 setting (350 CFM).

# Staphylococcus Epidermidis



*Staphylococcus epidermidis* (*S. epidermidis*), formerly *Staphylococcus Albus*, which is a round-shaped, bacteria primarily found on the skin, where it can cause skin conditions such as Acne Vulgaris. However, it is also a major cause of medical implant infections, especially with peripheral and central intravenous catheters. *S. epidermidis* contamination is also considered a source of infections with implanted shunts, prosthetic joints, vascular grafts, urinary catheters, eye keratitis and endophthalmitis, as well as inflammation of the chest cavity (Mediastinitis) and bacterial blood infections (Bacteremia).

(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4184040/>)

*Staphylococcus aureus* (*S. aureus*) is a round-shaped, bacteria frequently found on the skin and in the throat, nose, and sinuses. It is spread through human-to-human contact, but it can ride on mucus ejected by sneezing or coughing and remain viable on surfaces for weeks, making it a common cause of infection. Such infections can be as basic as sinusitis, acne, or food poisoning. It can also cause more serious, even life-threatening conditions including pneumonia, meningitis, osteomyelitis, endocarditis, toxic shock syndrome, bacteremia, and sepsis. It is one of the most common hospital-acquired infections, frequently found infecting surgical wounds. This is especially true of antibiotic-resistant strains like *methicillin-resistant S. aureus* (MRSA).

(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4451395/>)

Tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Aspergillus Niger

Escherichia Coli 99.99%

Aspergillus Niger 99.99%

10 20 30 40 50 60 70 80 90 100 110 120

Time (Minutes)

*Escherichia coli* (*E. coli*) is a rod-shaped coliform bacterium that can normally be found in the lower intestines of people and animals. Most types of *E. coli* are harmless, and some are important to a healthy human digestive tract. There are, however, some *E. coli* strains that cause food poisoning and diarrhea, while others cause urinary tract, respiratory infections, and other illnesses.

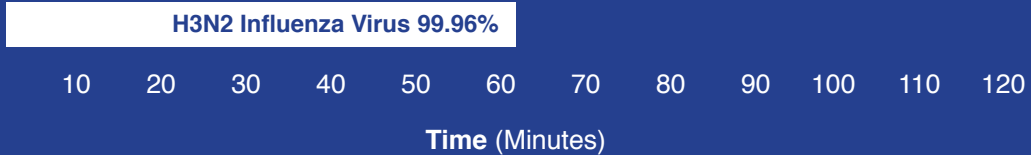
(<https://www.cdc.gov/ecoli/general/index.html>)

*Aspergillus niger* (*A. niger*) is one of fifteen black-spored strains of the *Aspergillus* mold. It is quite common, both indoors, where the black colonies are often mistaken for the harmful *Stachybotrys* (black mold) and in the soil. These spores can also be airborne, where they can be inhaled. In people with healthy immune systems, this is not an issue. For those with compromised immune systems, these spores can cause sinus and lung infections called Aspergillosis, with symptoms that include fever, wheezing, shortness of breath, and cough.

(<https://www.cdc.gov/fungal/diseases/aspergillosis/symptoms.html>)

Tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Influenza A H3N2



Influenza viruses are seen in a number of different animals as well as in human beings. When influenza viruses cross from animals to humans, they are called “variant” viruses. Influenza A H3N2 variant viruses (also known as “H3N2v” viruses) with the matrix (M) gene from the 2009 H1N1 pandemic virus were first identified in pigs in 2010 and detected in people in July 2011. Also known as swine influenza, outbreaks occur during the late fall and winter months similar to outbreaks of seasonal influenza in humans, with similar symptoms including fever/chills, cough, sore throat, runny or stuffy nose, muscle/body aches, headaches, fatigue, and vomiting and diarrhea (primarily in children).

(<https://www.cdc.gov/flu/swineflu/variant-flu-in-humans.htm>)

Tests were performed in a 10 m<sup>3</sup> (353 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 1 hour by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Energy STAR Certified

The U.S. Environmental Protection Agency (EPA) has published specifications of energy efficiency using a Clean Air Delivery Rate (CADR) to Watt ratio. The unit must produce at least 50 CADR for smoke. Minimum performance is 2.9 CADR/Watt and the standby power requirement is 2.0 Watts. Further, the EPA's ozone standard allows for 70 parts per billion (ppb) as a safe level for environmental ozone.

Criteria	Measured	Standard
Measured Smoke CADR (ft <sup>3</sup> /min.)	356.1	>50
Total Energy Consumption (Watts)	117.8	--
Smoke CADR/Watt (ft <sup>3</sup> /min/W)	3.0	>2.9
Standby Power (Watts)	0.7	<2.0
Ozone Production (Weighted 24hr. Avg.)	0.000 ppb	<70 ppb

The EPA standard for ozone particulate allowance is 70 parts per billion (ppb) for all states, excluding the State of California. The ozone particulate allowance for California is 50 ppb.

## Negative Ions

In addition to producing no ozone, the OxyPure<sup>®</sup> also produces no extraneous negative ions (anions). Similar electrostatic air purifiers create anions as part of their normal function and these negative ions remain in the air in large concentrations. Unlike other air purifiers, the OxyPure does not create anions.

OxyPure <sup>®</sup> Configuration	Background Concentration of Negative Ions (ions/cm <sup>3</sup> )	Average Concentration of Negative Ions (ions/cm <sup>3</sup> )
Highest Fan Speed Tested on the Floor	<10	<10

Tests were performed in a 60 m<sup>3</sup> (2,118 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 1 hour respectively by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Built to Capture Even the Smallest Particles

The OxyPure has been tested against Dust, Smoke, and Pollen, particles as small as 0.09 microns, to ensure that it will clean the air in your home quickly and efficiently. It has been shown to remove 100% of these indoor air pollutants while still putting out over 300 ft<sup>3</sup>/min of clean, healthy air.



## 10 Microns

Fertilizer, Pollen, Plant and Flower Allergens, Mold Spores, and Dust Mites



## 4 Microns

Iron Dust, Textile Dust, Fiberglass Installation, and Tobacco Smoke



## 3 Microns

Cement Dust, Burning Wood, and Mold Spores



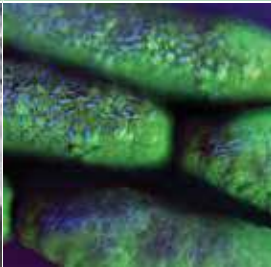
## 2.5 Microns

Combustion Related, Motor Vehicles, and Industrial Emissions



## 2 Microns

Lead Dust, Carbon Black Dust, Spores, and Asbestos



## 1 Micron

Fiber Glass, Coal Dust, Anthrax, and Auto and Car Emissions



## 0.5 Microns

Talcum Dust and Copier Toner



## 0.2 Microns

Bacteria, Carbon Black Dust, and Insecticide Dust





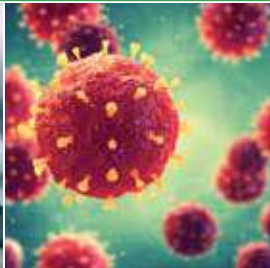
**0.2 Microns**

Burning Wood Smoke and Coal Flue Gas



**0.1 Microns**

Paint Pigments, Clay, Lead and Radioactive Fallout



**0.09 Microns**

Viruses and Atmospheric Dust



**ODORS**

Household Fumes, Smoke, and Cooking Odors



**FORMALDEHYDE**

Carpets, Flooring, Furniture, and Adhesive



**BENZENE & VOCs**

Cleaning Products, Floor Polishes, Dyes, and Paint



**NITROGEN**

Nitrogen Dioxides from Gas Stoves and Car Exhausts



**OZONE**

Pollutants Emitted by Power Plants, Refineries, and Chemical Plants

# Pollen

Every year, pollen triggers common seasonal allergies. Each spring, summer and fall, plants release pollen to fertilize other plants of the same species. For the most part allergic reactions come from tree, weed and grass pollens that are released into the air, while insect-fertilized plants such as roses, or cherry trees, tend not to cause allergic reactions.

(<https://www.aafa.org/pollen-allergy/>)

Time (Minutes)	Pollen					
	11.14	10.37	9.647	8.977	8.354	7.774
10	99.82%	100%	99.89%	99.82%	99.18%	100%
20	100%	100%	100%	100%	100%	100%
30	100%	100%	100%	100%	100%	100%
40	100%	100%	100%	100%	100%	100%
50	100%	100%	100%	100%	100%	100%
60	100%	100%	100%	100%	100%	100%
70	100%	100%	100%	100%	100%	100%
80	100%	100%	100%	100%	100%	100%
90	100%	100%	100%	100%	100%	100%
100	100%	100%	100%	100%	100%	100%
110	100%	100%	100%	100%	100%	100%
120	100%	100%	100%	100%	100%	100%
<b>Units: Microns Fan speed: High</b>						

Separate tests were performed on each particle size in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

Of the plants that do cause seasonal allergies, grasses are the most common, followed by weeds such as ragweed, sagebrush, pigweed, lamb's quarters and tumbleweed. Highly allergenic pollens are also produced by birch, cedar and oak trees.

Time (Minutes)	Pollen					
	7.234	6.732	6.24	5.829	5.425	5.048
10	100%	97.44%	100%	100%	100%	100%
20	100%	100%	100%	100%	100%	100%
30	100%	100%	100%	100%	100%	100%
40	100%	100%	100%	100%	100%	100%
50	100%	100%	100%	100%	100%	100%
60	100%	100%	100%	100%	100%	100%
70	100%	100%	100%	100%	100%	100%
80	100%	100%	100%	100%	100%	100%
90	100%	100%	100%	100%	100%	100%
100	100%	100%	100%	100%	100%	100%
110	100%	100%	100%	100%	100%	100%
120	100%	100%	100%	100%	100%	100%
<b>Units: Microns Fan speed: High</b>						

Separate tests were performed on each particle size in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Dust Mites

Dust mites are a serious allergen. They are microscopic members of the family *Arachnida*, which also includes spiders, scorpions, chiggers, and ticks. They prefer temperatures at or above 70°F with a relative humidity of 75-80% and die when the humidity falls below 40-50%. They are rarely found in dry climates.

(<https://exhalenow.com/dust-allergies/>)

Time (Minutes)	Dust Mites				
	3.0	2.8	2.5	2.3	2.0
10	92.30%	95.34%	99.20%	98.62%	95.80%
20	97.43%	97.67%	99.20%	100%	98.95%
30	100%	100%	100%	100%	99.37%
40	100%	100%	100%	100%	100%
50	100%	100%	100%	100%	100%
60	100%	100%	100%	100%	100%
70	100%	100%	100%	100%	100%
80	100%	100%	100%	100%	100%
90	100%	100%	100%	100%	100%
100	100%	100%	100%	100%	100%
110	100%	100%	100%	100%	100%
120	100%	100%	100%	100%	100%
<b>Units: Microns Fan speed: High</b>					

Separate tests were performed on each particle size in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

Time (Minutes)	Dust Mites				
	1.8	1.6	1.4	1.2	1.0
10	95.20%	95.06%	95.97%	94.12%	94.34%
20	99.57%	99.61%	99.72%	99.60%	99.59%
30	99.85%	99.80%	99.89%	99.84%	99.95%
40	100%	99.80%	99.96%	99.86%	99.92%
50	100%	100%	100%	100%	99.95%
60	100%	100%	100%	100%	99.97%
70	100%	100%	100%	100%	100%
80	100%	100%	100%	100%	100%
90	100%	100%	100%	100%	100%
100	100%	100%	100%	100%	100%
110	100%	100%	100%	100%	100%
120	100%	100%	100%	100%	100%
<b>Units: Microns Fan speed: High</b>					

Separate tests were performed on each particle size in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Dust

Dust has long been known as a major cause of year-round allergy symptoms like runny or stuffy nose, itchy/watery eyes and sneezing. It can also aggravate asthma leading to symptoms such as wheezing, coughing, and shortness of breath.

It is a mixture of many substances from fabric fibers, skin particles, animal dander, microscopic creatures called mites, bacteria, parts of cockroaches, mold spores, food particles and other debris. You can be allergic to one or more of these substances, and, when they are inhaled, they cause an allergic reaction.

(<https://www.allergypartners.com/effects-secondhand-smoke-2/>)

Time (Minutes)	Dust				
	0.9	0.8	0.7	0.6	0.5
10	94.12%	94.25%	93.94%	93.85%	94.07%
20	99.72%	97.56%	99.67%	99.69%	99.49%
30	99.92%	99.87%	99.90%	99.84%	99.83%
40	99.92%	99.91%	99.92%	99.92%	99.91%
50	99.95%	99.95%	90.88%	99.96%	99.95%
60	99.95%	99.94%	99.94%	99.96%	99.95%
70	99.95%	99.97%	99.97%	99.96%	99.95%
80	99.95%	99.98%	100%	100%	100%
90	99.97%	99.98%	100%	100%	100%
100	100%	100%	100%	100%	100%
110	100%	100%	100%	100%	100%
120	100%	100%	100%	100%	100%
<b>Units: Microns Fan speed: High</b>					

Separate tests were performed on each particle size in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Tobacco Smoke/Other Particles

Tobacco smoke is a danger not only to the smoker, but to those who share that smoker's air. In addition to lung cancer, secondhand smoke has already been implicated in cardiac disease as well as respiratory conditions such as asthma, pneumonia, bronchitis, reduced lung function, sinusitis, and COPD. In addition, secondhand smoke is a factor in middle ear disease, sensorineural hearing loss, sudden infant death syndrome, premature birth, impaired fetal growth and development, dental caries, cancers in locations other than the lungs, renal disease, and atherogenesis. (<https://exhalenow.com/dust-allergies/>)

Time (Minutes)	Tobacco Smoke & Other Particles						
	0.3	0.2	0.19	0.18	0.17	0.16	0.15
10	96%	98.1%	98.29%	97.78%	97.79%	97.64%	97.58%
20	100%	99.89%	100%	97.91%	99.97%	99.98%	99.93%
30	100%	100%	100%	100%	100%	100%	100%
40	100%	100%	100%	100%	100%	100%	100%
50	100%	100%	100%	100%	100%	100%	100%
60	100%	100%	100%	100%	100%	100%	100%

**Units: Microns Fan speed: High**

Time (Minutes)	Tobacco Smoke & Other Particles					
	0.14	0.13	0.12	0.11	0.1	0.09
10	97%	96.8%	96.40%	95.67%	95%	94.56%
20	99.96%	99.91%	99.93%	99.92%	99.91%	99.94%
30	100%	99.98%	100%	100%	100%	99.98%
40	100%	99.99%	100%	100%	100%	99.97%
50	100%	100%	100%	100%	100%	100%
60	100%	100%	100%	100%	100%	100%

**Units: Microns Fan speed: High**

Separate tests were performed on each particle size in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Air Purifier Efficiency

## What is formaldehyde?

Formaldehyde is a colorless, strong-smelling gas used in making building materials and many household products. It is used in pressed-wood products, such as particleboard, plywood, and fiberboard; glues and adhesives; permanent-press fabrics; paper product coatings; and certain insulation materials. It is also used to make other chemicals.

Formaldehyde is quickly broken down in the air – generally within hours. It is commonly used as an industrial disinfectant, and as a preservative in funeral homes and medical labs. It can also be used as a preservative in some foods and in products, such as antiseptics, medicines, and cosmetics.

## How are people exposed to formaldehyde?

The main way people are exposed to formaldehyde is by inhaling it. In liquid form it can be absorbed through the skin. People can also be exposed to small amounts by eating foods or drinking liquids containing formaldehyde.

## Can formaldehyde cause cancer?

Exposure to relatively high amounts of formaldehyde in medical and occupational settings has been linked to some types of cancer in humans, but the effect of exposure to small amounts is less clear. Studies of people exposed to formaldehyde in the workplace have also found a possible link to cancer of the nasal sinuses.

At present, the limit is at 0.70 parts per million (ppm) on average over an 8 hour workday. The highest concentration that a worker can be exposed to is 2 ppm, and that can only occur over 15 minutes. (<https://www.cancer.org/cancer/cancer-causes/formaldehyde.html>)

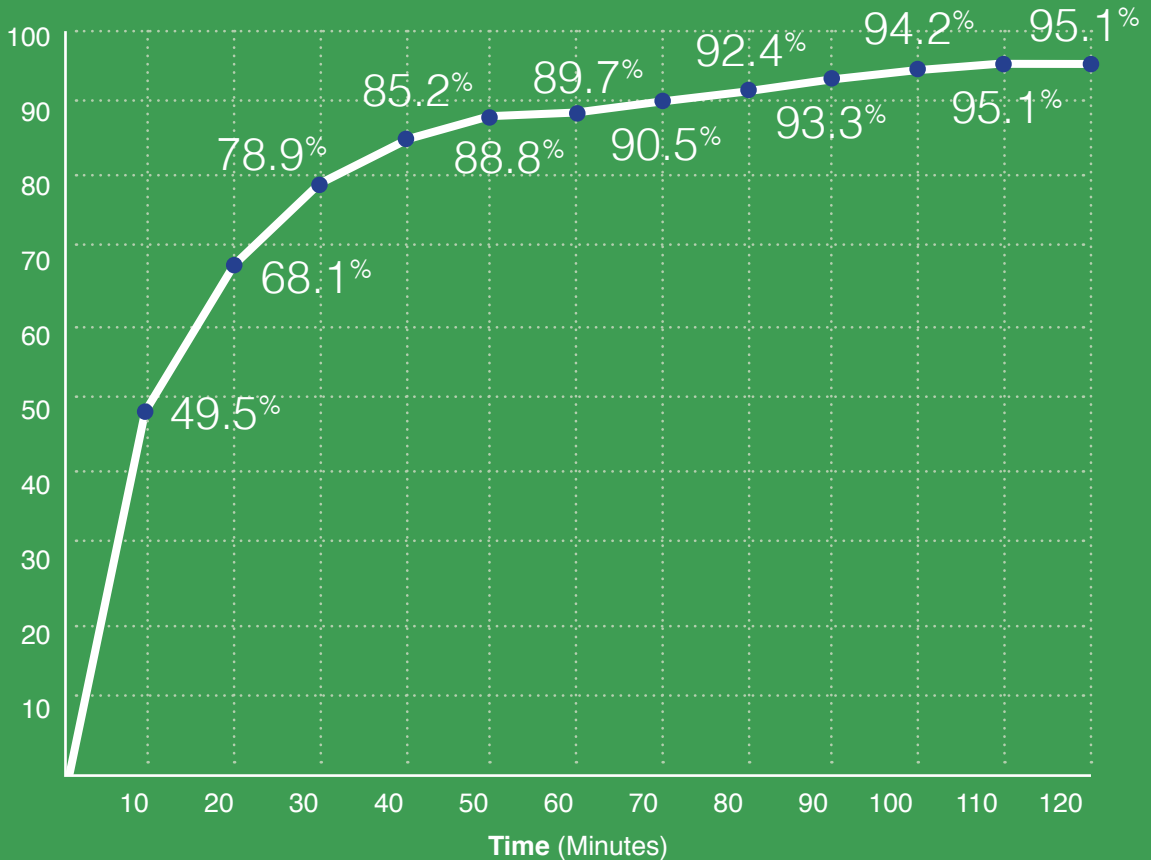
Gases, VOCs & Fumes	Removal Rate	Time (Minutes)
Formaldehyde	95.19%	120 minutes

Tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).



# Removal of Formaldehyde

## Removal Rate



**Units:** Microns

**Fan speed:** High

**Hours:** 2

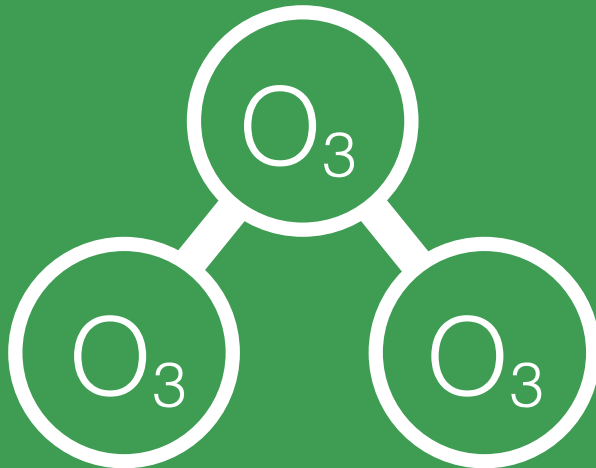
**Room size:** 30 m<sup>3</sup> (1,059 ft<sup>3</sup>)

Tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# Ozone & You

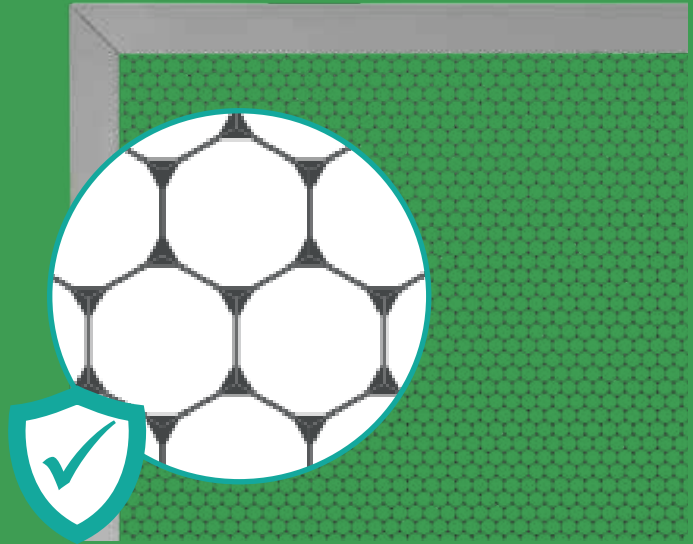
Ozone in the upper atmosphere is important for life on Earth, but ground-level ozone is hazardous. Created by the reaction of pollutants like the nitrogen oxides and volatile organic chemicals produced by car exhaust with sunlight and stagnant air, ground-level ozone is highly irritating, triggering numerous health issues including chest pain, coughing and shortness of breath, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma.

Despite this, some air purifiers produce ozone to clean the air and eliminate odors. However, they are also dangerous, and users of these machines are cautioned against being in the same room with them because of the toxic effects of the ozone they create. In fact, in 2010, these machines were outlawed in the State of California for that reason. OxyPure is certified for sale in California because it does not create ozone, but more than that, it also degrades the existing ozone in the air, reducing it to 0 parts per billion (ppb).



# CARB Certified

Ground level ozone concentrations (measured in parts per billion or ppb) varies depending on where you live. You can live in places where it is fairly low, like Oahu in Hawaii, which averages 49ppb<sup>1</sup>; or in places like Chicago, which averages 72ppb<sup>2</sup>. The national average hovers around 70ppb<sup>3</sup>, which is also the current EPA standard. The CARB-Certified OxyPure's Ozone filter drops the ozone concentration in your home to 1ppb, 70 times lower than current EPA limits and well below the ozone concentration you would find outside anywhere in the U.S.



The OxyPure is certified by the California Air Resources Board. It has passed independent testing for both ozone emissions and electrical safety and is certified for sale in California as it produces less than the benchmark 50 parts per billion (ppb) concentration.

Test	OxyPure®	Standard Limit
Ozone Concentration (Parts per Billion)	0.000 ppb	<50 ppb
Electrical Safety	Compliant	ANSI/UL 867

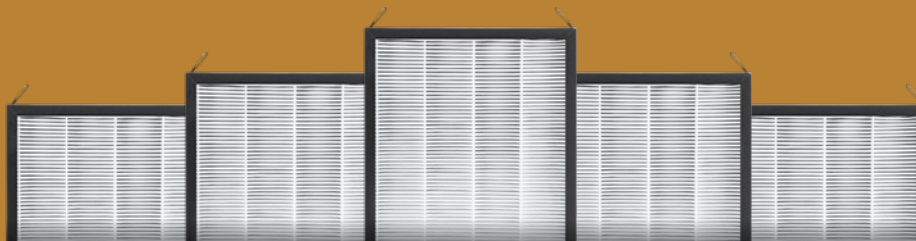
The EPA standard for ozone particulate allowance is 70 parts per billion (ppb) for all states, excluding the State of California. The ozone particulate allowance for California is 50 ppb.

Tests were performed at Fan Speed Levels 1 and 6 for 24 and 8 hours respectively by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

Tests were performed in a 30 m<sup>3</sup> (1,059 ft<sup>3</sup>) chamber at Fan Speed Level 6 for 2 hours by Intertek™ Labs. The full test reports can be found at [www.nuwaveoxypure.com/tests](http://www.nuwaveoxypure.com/tests).

# 5 Years of Savings!

The cost of replacement HEPA/Carbon filters can add significantly to your initial cost of purchase. You receive up to 5 HEPA/Carbon filters to eliminate that expense. Each filter has a lifespan of 1 year depending on the environment.



Air Purifier	Purchase Price	Cost After 1 Year	Cost After 5 Years*
<b>Blueair Blue Pure 211</b> (Annual filter Cost: \$120)	\$250	\$370	\$850
<b>Honeywell HPA300</b> (Annual filter Cost: \$127)	\$250	\$377	\$885
<b>NuWave OxyPure</b> (Annual filter Cost: \$0)*	\$600	\$600	\$600
<b>Alen Breathesmart</b> (Annual filter Cost: \$104)	\$600	\$704	\$1,120
<b>Blueair Classic 605</b> (Annual filter Cost: \$160)	\$900	\$1,060	\$1,700
<b>LG Puricare 360</b> (Annual filter Cost: \$120)	\$1,299	\$1,599	\$2,599

\*Annual cost within 5 years. †Varies with certain models.

# OxyPure® and the Low Cost of Ownership

With any air purifier, there are two ongoing expenses to consider beyond unit price: filter replacement costs and energy costs.

Three of the four OxyPure filters are designed to be cleanable and have useful lifespans of up to 20 years, while the fourth will last up to a year\* before requiring a replacement.



18/8 Stainless-Steel  
Pre-Filter  
*(Washable)*

Bio-Guard™  
Filter  
*(Washable)*

Ozone Removal  
Filter  
*(Cleanable with  
vacuum)*

HEPA/Carbon  
Filter

\*Depending on amount of use and environment.

## NuWave OxyPure® Energy Consumption & Cost.

Based on current California (CA) and Illinois (IL) energy rates.

Wattage	Daily ( kWh)	Daily Cost	
		CA	IL
8.9	0.21	\$0.04	\$0.03
8.9	Monthly ( kWh)	Monthly Cost	
		CA	IL
	6	\$1.19	\$0.79
8.9	Yearly ( kWh)	Yearly Cost	
		CA	IL
	78	\$14.30	\$9.50

The OxyPure can run 24 hours a day, seven days a week, all year round for under \$10 USD\*.

While on Auto, the OxyPure will operate at Fan Speed 1 until it detects poor air quality. It then automatically runs at the top fan level (6) until the air improves. It will go back to Fan Speed 1 once it no longer detects poor air quality. This unique OxyPure feature is a huge energy-saver.

\*Based on continuous operation at Fan Speed 1 with April 2020 rates of 12.19¢/kWh (Illinois) and 18.34¢/kWh (California).

# OxyPure: The Most Advanced Air Purifier for a Reason



## **Protect Your Family**

From Lead, Mold, Dust, Pollen, Smoke, Pet Dander, Allergens, Bacteria, Viruses, Gases & Volatile Organic Compounds (VOCs).



## **Breathe Easier**

Indoor air pollution is one of the leading causes of sleep and respiratory problems, and with conventional air purifiers, the cost of clean air can mount up fast. Not so with the OxyPure!



## **Sleep Better Than Ever**

With clean air and a Sleep Mode that turns off all indicator lights and allows for flexible fan speeds and noise levels to promote ideal sleeping conditions.

**nuwave**  
**OxyPure®**  
**Smart Air Purifier**

**nuwaveoxypure.com**



For more revolutionary products from NuWave, visit: **[nuwavenow.com](http://nuwavenow.com)**

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For patent information please go to: [nuwavenow.com/legal/patent](http://nuwavenow.com/legal/patent)

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