

nuwave®

OXYPURE PORTABLE AIR PURIFIER



Owner's Manual

Model 47401 / 47402

Questions or Concerns?

Toll Free: 1-877-689-2838 • help@nuwavenow.com
(Mon-Fri 7:30am-4:30pm CST)

THANK YOU

for purchasing the NuWave OxyPure HEPA 500.



REGISTER YOUR PURCHASE

1. nuwavenow.com/QR
2. Scan the QR code using your mobile device.

RECORD THIS INFORMATION

Model Number: _____

Serial Number: _____

Date of Purchase: _____
(Keep receipt)

Store of Purchase: _____

TECHNICAL SPECIFICATIONS

Voltage: DC24V/1.5A
Wattage: 34W

TIP: You can locate the model and serial numbers, as well as the QR code, on the label on the back of the unit.

CUSTOMER SERVICE

Phone: 1-877-689-2838
(Mon - Fri 7:30am - 4:30pm CST)
Email: help@nuwavenow.com.

Trademark & Copyright Notice
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Welcome to the NuWave® Family!

Congratulations on getting your new NuWave OxyPure HEPA 500 Portable Smart Air Purifier! We are incredibly excited for you to enjoy pure, clean air in your home and want to make sure you get the most out of your OxyPure® experience.

That's what this manual is all about. In it, we have provided detailed operating and care instructions covering every aspect of your new air purifier to make sure the OxyPure is meeting your needs.

Here at NuWave, the relationship we have with our customers only begins with the purchase. We are with you every step of the way because we are dedicated to making your experience as easy and rewarding as possible. So, if you have any questions, comments, or concerns, please don't hesitate to contact Customer Service by calling 1-877-689-2838 (Mon-Fri 7:30am-4:30pm CST) or emailing us at help@nuwavenow.com.

We're glad you're with us, and we know that you will be, too!

Connect with Us!

#nuwavenow



Visit nuwavenow.com to see other great products and accessories.



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Meets California ozone
emissions limit.
CARB certified



U.S Environmental
Protection Agency



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT SAFEGUARDS

HOUSEHOLD USE ONLY • READ ALL INSTRUCTIONS BEFORE USE

ALWAYS KEEP THIS MANUAL HANDY FOR FUTURE REFERENCE.

READ ALL INSTRUCTIONS and WARNINGS: The failure to follow any of the important safeguards, warnings, or instructions for safe use is a misuse of the OxyPure that can void your warranty and create the risk of serious injury. When using the OxyPure, basic safety precautions should always be followed.

1. ONLY use the OxyPure for its intended purpose.
2. To protect against the risk of electrical shock, DO NOT immerse the cord, plug, or any part of the OxyPure in water or any other liquid.
3. Close supervision is necessary when the OxyPure is used by or near children. The OxyPure is not intended for use by children, persons with reduced physical, sensory, or mental capabilities, or those who lack expertise or knowledge of this device.
4. DO NOT operate the OxyPure with a damaged cord, plug, after any malfunction, or if the unit has been dropped or damaged in any way. Contact Customer Service at 1-877-689-2838 or email help@nuwavenow.com for more information.
5. Discard the protective plastic covering the power plug before use.
6. DO NOT run the cord under carpeting. DO NOT cover the cord with throw rugs, runners, or other coverings.
7. DO NOT route the cord under furniture or appliances. Arrange the cord away from high-traffic areas where it will not pose a tripping hazard.
8. DO NOT plug the OxyPure into an outlet or power strip that is being used by other appliances.
9. Remove any dust or water from the plug, if needed.
10. ALWAYS set up the OxyPure on a flat, stable surface.
11. DO NOT set up the OxyPure where it could be pushed, kicked, or tripped over.
12. Leave at least 2-3 feet of space between the OxyPure's vents and any walls.
13. DO NOT install the OxyPure near a heating device, flammable or combustible gases or vapors, or in areas exposed to moisture or water.
14. DO NOT operate the OxyPure on its side.
15. DO NOT place objects on top of the OxyPure.
16. DO NOT sit or stand on, or lean against, the OxyPure.
17. Alteration or modification of any part of the OxyPure, or the use of attachments not recommended by the manufacturer, may cause fire, injury, or damage to property.
18. As with most electrical units, electrical parts are live even when the OxyPure is off. Be sure the OxyPure is unplugged when assembling.

IMPORTANT SAFEGUARDS

HOUSEHOLD USE ONLY • READ ALL INSTRUCTIONS BEFORE USE

19. DO NOT use the OxyPure in a factory or industrial setting where machine oil may be present in the air.
20. Turn the power OFF on the OxyPure before unplugging it.
21. Unplug the OxyPure from outlet when the unit is not in use or will be left unattended for an extended period of time; before putting on or taking off parts; when removing or replacing the filters; and before cleaning.
22. DO NOT operate the OxyPure if an abnormal sound or motion is detected.
23. If a hard or foreign object comes into contact with the fan, do not operate. Turn off and unplug the OxyPure.
24. Inspect the OxyPure for any loose or missing parts before and after each use. If parts are loose, damaged, or missing, contact Customer Service at 1-877-689-2838 or email help@nuwavenow.com.
25. DO NOT pull, lift, drag, pick up, or carry the OxyPure by its cord.
26. DO NOT block the air inlet or outlet vents.
27. DO NOT operate the OxyPure without filters or the Filter Access Panel in place.
28. Be careful when opening the Filter Access Panels so you don't damage the Prefilter.

FILTER CHANGING PRECAUTIONS

1. DO NOT try to clean the HEPA/Carbon filters. Doing so will release dust and other pollutants back into the air. The mesh Prefilter may be washed in warm, soapy water, but must be dried before being reinstalled.
2. ALWAYS use rubber gloves when handling the filters.
3. When removing dirty filters, ALWAYS do so outside or in a well ventilated area.
4. ALWAYS replace your filters with NuWave filters made for your model of air purifier.

ELECTRICAL INFORMATION

These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Power-Supply Cords

A short, detachable power-supply cord is provided to reduce the risk of becoming entangled in, or tripping over, a longer cord. Longer detachable power-supply cords or extension cords are available and may be used if care is exercised in their use. If a longer, detachable power-supply cord or extension cord is used:

1. The marked electrical rating of the extension cord should be at least as great as the electrical rating of the appliance.
2. The longer cord should be arranged so that it will not drape over any countertop or tabletop where it could be pulled on or tripped over unintentionally.
3. The OxyPure should be operated on a separate electrical outlet from other operating appliances due to wattage limitations.

PARTS & ACCESSORIES

PART & ORDER INFORMATION • ASSEMBLY



FRONT

OxyPure HEPA 500
Portable Smart Air Purifier
Model #: 47401 / 47402



BACK

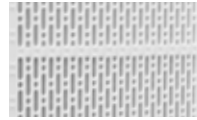
Air Quality Sensor Cover (1)
Part #: H5P1



Power Supply
Part #: H5P5



Opening the right-hand Prefilter Access Panel. The HEPA side of the HEPA/Carbon Filter is visible.
Part #: H5P2



Detail showing the mesh screen in the Prefilter Access Panel.



Assembling the OxyPure

Before using your OxyPure, you need to make sure that the filters are properly installed. With the OxyPure unplugged:

1. Open the Filter Access Panels with their built-in mesh Prefilters on each side of the OxyPure.
2. Remove the HEPA/Carbon Filters from their slots.
3. Remove the plastic wrapping from the new filters.*
4. Fully insert the new HEPA/Carbon Filters into their slots, making sure that the carbon side is inside and the removal tab is visible.
5. Replace the Filter Access Panels, making sure that each is secure.
6. Remove the sticker from the control panel.*

*When using the OxyPure for the first time.

Ordering Parts








To order new Filters and other replaceable parts, find the part number then call NuWave Customer Service at 877-689-2838 (M-F, 7:30am-4:30pm CST), or Email at help@nuwavenow.com order online at www.nuwavenow.com.

GETTING STARTED

CONTROL PANEL • BASIC FUNCTIONS



CONTROLS

ICON	NAME	FUNCTION
	POWER	When the OxyPure is plugged in, the Power button will be red, indicating that the unit is in Standby Mode. Press it once, the LED turns white and the unit activates, either with the last settings used, or in Manual Fan Speed Mode at Fan Speed 1 if the unit is being activated for the first time.
	FAN SPEED	FAN SPEED has two functions. First, it controls the fan speed from low to high. Simply press it until you reach the fan speed you want. Pressing it a 5th time returns you to Fan Speed 1. Second, to use the Pet Lock to keep your settings from being accidentally changed, press and hold FAN SPEED for 1 second. Repeat to unlock the settings again.
	AUTO/ECO	AUTO/ECO lets you use Auto Mode or Eco Mode (see below). Press it once for Auto Mode. Press and hold it for Eco Mode. To quit ECO Mode, press and hold AUTO/ECO for 1 second. The Power button will be lit Yellow when ECO is selected and AUTO will be lit green.
	TURBO	Press TURBO to run the OxyPure at the highest fan speed for up to 2 hours. Press it once for 30 minutes, twice for 1 hour, and 3 times for 2 hours. Pressing TURBO four times turns it off.
	SLEEP	With the unit set up and running the way you want it, press SLEEP to turn off the LED display on the control panel, which helps promote a good night's rest. When the Filter Replacement icon next to it appears yellow, you should consider changing the filter. When it turns red, you MUST change the filter.
	TIMER	Pressing TIMER lets you decide how long the OxyPure remains on, pressing the button once for each of the following: 1hr, 2hrs, 4hrs, 6hrs, 8hrs, and 12hrs. Pushing it a seventh time will turn off the Timer but not the unit. TIMER can be used with AUTO , FAN SPEED , and TURBO (see below).
	AIR QUALITY	The AIR QUALITY indicator turns on as soon as the unit is activated, displaying the current air quality with 4, color-coded Air Quality levels, going from green (clean) to orange, burgundy, and finally red (dirty).

NOTICE

To reduce the risk of electric shock, **DO NOT** perform any service or maintenance on this appliance except for that which is contained in these instructions.

INSTRUCTIONS

MANUAL FAN SPEED MODE • TURBO MODE

AUTO Mode

AUTO Mode runs the OxyPure automatically in accordance with the current air quality. To use it:



1. Tap **AUTO/ECO** once to turn on AUTO mode. The upper half circle LED will turn on to indicate that AUTO Mode is active.
2. The unit will operate, automatically adjusting the Fan Speed according to current air quality, increasing when the air is dirty, decreasing as the air gets cleaner.
3. When you wish to deactivate AUTO Mode, simply press **AUTO/ECO** again. The OxyPure will revert to manual FAN SPEED Mode and run at the lowest fan speed.

Note

Regardless of operating mode, pressing **AUTO/ECO** once will turn the mode on, and pressing it again will turn the mode off.

AUTO and FAN SPEED

You **cannot** use the **FAN SPEED** button while in AUTO Mode because pressing **FAN SPEED** in that case will take you out of AUTO Mode and return you to manual FAN SPEED Mode.

While in manual FAN SPEED Mode, if you press **AUTO/ECO**, the OxyPure will switch to AUTO Mode, and it will remain in AUTO Mode until changed again.

AUTO and TIMER

While the OxyPure is running in AUTO Mode, you can set the unit's operating time by pressing the **TIMER** button, setting a time limit of up to 12 hours.

AUTO and TURBO

You can use AUTO Mode and TURBO Mode together, running in TURBO Mode for a time and then switching to AUTO Mode, running at the lowest Fan Speed. See the following page for more information.

FAN SPEED LEVEL	FAN SPEED RPM	AIR QUALITY READING	PM SENSOR READING
1	300	GREEN	0 – 10
2	850	ORANGE	11 – 30
3	1050	BURGUNDY	31 – 50
4	1500	RED	OVER 50

ECO Mode

Like AUTO Mode, ECO Mode also responds to changes in Air Quality. However, because it does not run the fan continuously, ECO Mode is a real energy- and money-saver. To use it:



1. Press and hold the **AUTO/ECO** button for 1 second. The OxyPure will beep, the lower half circle LED will turn on to indicate that ECO Mode is active while the rest of the panel goes dark, and the fan will turn off.
2. When the air quality is bad (PM2.5 level over 50), the OxyPure will turn on automatically and go into AUTO Mode. The Power LED will be lit yellow, and **AUTO/ECO** LED will be lit white.
3. When the air quality is good (PM2.5 level under 5), the OxyPure will automatically turn off again. be turned off automatically.

To quit ECO Mode, press and hold **AUTO/ECO** for 1 second.

Questions about your OxyPure?

Contact our friendly customer service staff from 7:30am to 4:30pm, Monday through Friday CST, at 877-689-2838 or reach us via email anytime at help@nuwavenow.com.

INSTRUCTIONS

AUTO MODE • ECO MODE

Measuring Air Quality: The OxyPure Sensors



The OxyPure measures the indoor Air Quality in your home using a PM2.5 benchmark for particle pollution. "PM" stands for "Particulate Matter", an airborne mixture of solid particles and liquid droplets. "2.5" is the particle size in microns. So, PM2.5 describes fine, easily inhalable particles like dust, pollen, mold, smoke, organic compounds and metals.

The sensors measure these particles in the air, display the results on the control panel, and activate and adjust the fan to eliminate any Air Quality issues.

MANUAL FAN SPEED



This is the basic operating mode for the OxyPure, the one that activates the first time you start the unit, allowing you to manually operate the Fan Speed without worrying about the automatic modes or settings.

There're 4 Fan Speeds:

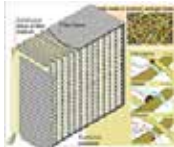
FAN SPEED LEVEL	FAN SPEED RPM
1	300
2	850
3	1050
4	1500

Operating the Fan

Number of Presses	Fan Speed Level	Number of Bars on Panel
1	1	1
2	2	2
3	3	3
4	4	4
5	1	1

Did you know...?

HEPA filters were developed in the 1940s to protect lab workers on the Manhattan Project from the very



HEPA Filter Basics, LadyofHats, Public domain, via Wikimedia Commons

dangerous radioactive dust their work was generating. They work like this: As air is pushed through them, any particles are trapped in the fine mesh of the filter and will not be rereleased into the air. These particles are as small as 0.3 microns, or 0.00011811 inches. That's a particle that is a little over 23 times smaller than a human hair and a True HEPA filter, like those in the OxyPure HEPA, will capture 99% of particles that size or larger!

Note

No matter what mode the OxyPure is in, the unit will always display the current Fan Speed Level.

Pet Lock

The Pet Lock feature disables the control set, so that your pet, or child, or even you cannot accidentally change the OxyPure settings.

To Use Pet Lock:

- Press and hold **FAN SPEED** replace until the Pet Lock appears. The padlock-shaped Pet Lock symbol will light-up white, indicating the unit is locked.
- To deactivate Pet Lock, press and hold **FAN SPEED** replace until the Pet Lock symbol will go dark, indicating the unit is unlocked.

INSTRUCTIONS

MANUAL FAN SPEED MODE • TURBO MODE

TURBO Mode

To quickly clear the air, choose TURBO Mode to run the OxyPure at Fan Speed Level 4 (1,500 RPM, the highest setting) for 30 minutes, 1 hour, or 2 hours, after which the unit will run at Fan Speed 1 if no other buttons were pressed. To use it, simply press **TURBO**.



- Press **TURBO** once to run the function for 30 minutes, then go to Fan Speed Level 1.
- Press **TURBO** twice to run the function for 1 hour, then go to Fan Speed Level 1.
- Press **TURBO** three times to run the function for 2 hours, then go to Fan Speed Level 1.

TURBO and AUTO/ECO

As mentioned previously, TURBO, AUTO, and ECO modes can work together to quickly clean, and then maintain, your indoor air quality. To use it, simply press **TURBO** one or more times (see above) and then press **AUTO/ECO** for AUTO Mode or press and hold **AUTO/ECO** for ECO Mode.

- Press **TURBO** once and then **AUTO/ECO**: The unit will run in TURBO Mode for 30 min, then AUTO (ECO) Mode until changed.
- Press **TURBO** twice and then **AUTO/ECO**: The unit will run in TURBO Mode for 1 hour, then AUTO (ECO) Mode until changed.

If **TURBO** is pressed while the unit is in another operating mode, such as AUTO or ECO, the unit will run in TURBO Mode and then return to the previous mode.

Note

TURBO and FAN SPEED do not work together. Pressing **FAN SPEED** while TURBO is activated will simply turn off TURBO Mode and set the Fan Speed Level to 1.

LED Brightness

- The Control Panel LEDs are at full brightness when the panel is in use.
- If no key is touched for 30 seconds, the panel will dim by 30%.
- If a key is touched while the panel is dimmed or off, regardless of mode, it will brighten to 100% again.

SLEEP Mode

Ideal for light sleepers, SLEEP Mode turns off the LED lights on the control panel while keeping the fan active.



Using SLEEP Mode

1. Manually adjust the Fan Speed with the **FAN SPEED** button.
2. Press **SLEEP** to activate SLEEP mode. The control panel will go dark, but the fan will continue to work.

To turn off SLEEP Mode, press any button.

Filter Icon

To alert you to the need to change your HEPA/Carbon filters, there is an LED Filter Icon by the SLEEP Mode button. This icon will light up based on the amount of time the filters have been in use:

- **Under 6 Months.** The icon is OFF.
- **From 6–12 Months.** The icon will turn yellow, indicating that the filters **MAY** be replaced.
- **After 12 Months.** The icon will turn red, indicating that the filters **MUST** be replaced immediately.

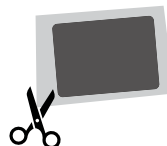
Resetting the Filter Icon

With the OxyPure plugged in, press and hold **SLEEP** until two short beeps sound and the Filter Icon is OFF.

Remember...

ALWAYS remove the plastic wrapping from new filters **BEFORE** using them in the OxyPure.

Failing to do so may damage the motor and other parts of the OxyPure and may void your warranty



INSTRUCTIONS

AUTO MODE • ECO MODE

Timer

You can run the OxyPure for a set period of time with the **TIMER** button. There are 6 different timer selections: 1hr, 2hrs, 4hrs, 6hrs, 8hrs, 12hrs.



Using the Timer

Number of Presses	Running Time	Number of Bars on Panel
1	1 Hour	1
2	2 Hours	2
3	4 Hours	3
4	6 Hours	4
5	8 Hours	5
6	12 Hours	6
7	OFF	0

Using Timer with AUTO and TURBO Modes

If the Timer is used with AUTO and TURBO modes, use them in the following order:

1. Run TURBO Mode.
2. Run AUTO Mode with a set time.

Ordering Parts

Over the lifetime of your OxyPure HEPA 500 Portable Smart Air Purifier, you may find yourself needing a new part or accessory, and if you do, NuWave has you covered.

Ordering new parts and accessories is quick and easy.

Simply take down the name and number for the part you want, then contact Customer Service. You can do that by:







Phone at **877-689-2838**
(M–F, 7:30am–4:30pm CST), or

Email at help@nuwavenow.com

You can even order directly online. Just visit www.nuwavenow.com

REPLACEABLE PARTS

TO ORDER GO TO NuWaveNow.com

	Part Name	Part Description	Part No.
	Air Vent	Top Vent and lid .Removable for easy cleaning.	H5A2
	HEPA/Carbon Filter	Remove lead,dust mites,mold.and mold spores. Lifespan from 6 months to 1 year.	H5P3
	Prefilter Access Panel	Located on both sides, encloses and covers the HEPA/Carbon filters and houses the mesh Prefilters to capture larger particles.	H5P2
	Sensor Cover	Located on the back, encloses and covers the Filter Sensor	H5P1
	Rubber feet	Located on the Bottom of the Unit	H5P4
	Power Supply	Detachable, connect to base of unit and wall outlet.	H5P5

REPLACEABLE PARTS
TO ORDER GO TO NuWaveNow.com

MAINTENANCE

TROUBLESHOOTING GUIDE • CHANGING FILTERS • CLEANING

The OxyPure Does Not Turn On.

1. The unit is not plugged-in.
Plug the unit into an appropriate wall outlet.
2. **POWER** on the control panel is OFF.
Press **POWER**.

If the problem continues, contact our Customer Service team at 1-877-689-2838 or email Customer Service at help@nuwavenow.com.

The Timer Doesn't Work When TIMER is Pressed.

1. The OxyPure is not reading the function selected. Press **FAN SPEED** or **AUTO/ECO**, then press **TIMER**.
2. The fan is not blowing. An appropriate outlet is not being used. Make sure the outlet has appropriate voltage.

If the problem continues, contact our Customer Service team at 1-877-689-2838 or email Customer Service at help@nuwavenow.com.

The Fan Speed Doesn't Change When FAN SPEED is Pressed.

The OxyPure may be in AUTO mode. Set the OxyPure to another operating mode and then press **FAN SPEED**.

Airflow From the Top Vent is Weak.

The Prefilter Access Panel may be dirty, see cleaning instructions.

The HEPA/Carbon filters are dirty. Change the HEPA/Carbon filters.

The Unit Produces Smoke or Odor.

The HEPA/Carbon filters are dirty. Change the HEPA/Carbon filters.

Questions about your OxyPure?

Contact our friendly customer service staff from 7:30am to 4:30pm CST, Monday through Friday at 877-689-2838 or reach us via email anytime at help@nuwavenow.com.

The Filter Icon Won't Reset After Changing The Filters.

1. The Filter Sensor is not reading the clean filter. Turn the OxyPure off, then on again. Press and hold **SLEEP** until the unit beeps. If that doesn't work, turn off and unplug the OxyPure, adjust the filter(s), then plug in the unit and turn it on again.
2. One or both of the Prefilter Access Panel(s) is not securely in place. Make sure they are securely in place.
3. The Filter Sensor is dirty. Clean the Filter Sensor.

If any of these problems continue, contact our Customer Service team at 1-877-689-2838 or email help@nuwavenow.com

Changing the HEPA/Carbon Filter

When the Filter Icon changes color, it is time to change the HEPA/Carbon Filters. There are 2, located on either side of the unit. Proceed as follows:

1. Turn the OxyPure off and unplug it.
2. Take it outside or into a well ventilated area.
3. Wearing disposable rubber gloves, open the Prefilter Access Panels and remove the old HEPA/Carbon filters, placing them in a plastic garbage bag along with the gloves.
4. Unwrap and install the new HEPA/Carbon Filters.
5. Securely close the Filter Access Panels.
6. Plug in the unit and turn it on.

Cleaning the OxyPure

- Depending on the environment, you may need to clean the OxyPure.
- With a damp cloth, wipe down the exterior and vent grids of the unit.
- You can use a gentle, non-abrasive cleaner, but apply it to the cloth, not to the unit.
- Use a dry or slightly wet cotton swab to clean the sensor and remove any moisture with a dry swab.
- Wash the Prefilter Access Panels in warm, soapy water, rinse and dry them thoroughly.

TEST RESULTS

CLEAN AIR DELIVERY RATE • AIRBORNE PATHOGEN REMOVAL

Airborne Virus Elimination Rate

Viruses can stay in the air on floating particles or droplets from coughs and sneezes, or carried in from outside. The OxyPure easily removes these pathogens, helping to protect you and your family.

Influenza A H3N2 is a variant of the 2009 H1N1 pandemic virus. It was first identified in pigs in 2010 and then in people in July 2011. Also known as swine influenza, outbreaks occur during the late fall and winter months with symptoms such as 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>)

Test Parameters	Test Number	Removal Rate
Pathogen: H3N2 Influenza A Host Cell: MDCK Action Time: 1 Hour Chamber: 10m ³	1	>99.99%
	2	>99.99%
	3	>99.99%

Airborne Bacteria and Mold Elimination Rates

Viruses can stay in the air on floating particles or droplets from coughs and sneezes, or carried in from outside. The OxyPure easily removes these pathogens, helping to protect you and your family.

Staphylococcus epidermidis (*S. epidermidis*), 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 in peripheral and central intravenous catheters, 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 spreads through human-to-human contact, as well as on mucus ejected by sneezing or coughing. It remains viable on surfaces for weeks, making it a common cause of infection. Such infections range from sinusitis and acne to pneumonia,

meningitis, osteomyelitis, endocarditis, toxic shock syndrome, bacteremia, sepsis and MRSA in hospitals.

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

Escherichia coli (*E. coli*) is a rod-shaped coliform bacterium normally found in the lower intestines of people and animals. While most strains of *E. coli* are harmless, some cause food poisoning and diarrhea, urinary tract and 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. Indoors it is often mistaken for the harmful *Stachybotrys*. The spores can become airborne, where they can be inhaled. For those with compromised immune systems, this can cause sinus and lung infections called Aspergillosis, with symptoms including fever, wheezing, shortness of breath, and cough. (<https://www.cdc.gov/fungal/diseases/aspergillosis/symptoms.html>)

Test Parameters	Action Time (hours)	Sterilization Rate
Pathogen: <i>Staphylococcus aureus</i> # of Tests: 3 Chamber: 30m ³	2	>99.98%
Pathogen: <i>Staphylococcus albus</i> # of Tests: 3 Chamber: 30m ³	2	>99.98%
Pathogen: <i>Escherichia coli</i> # of Tests: 3 Chamber: 30m ³	2	>99.98%
Pathogen: <i>Aspergillus niger</i> # of Tests: 3 Chamber: 30m ³	2	>99.97%

Did you know...

When you cough, each cough expels enough air to fill a 1.5 liter container in a plume that extends several feet and carries some 3,000 droplets of mucus, saliva and other material at speeds of up to 50 miles per hour! That's nothing, though, compared to a sneeze.

When you sneeze, those 3,000 droplets will increase to as many as 40,000, mostly less than 10 microns across, travelling at speeds that can exceed 200 miles per hour. They can travel over 8 feet and up to 20 feet into the air, high enough to get into ventilation systems.

This is why an good air purifier is so important, especially during cold and flu season. Clean air is the first step to good health, and with the OxyPure, you will know your air is pure and healthy.

www.livescience.com/3686-gross-science-cough-sneeze.html
www.self.com/story/germs-sneezing-coughing

TEST RESULTS

ENERGYSTAR • FORMALDEHYDE • CADR

EnergySTAR Certification

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 being tested must produce a CADR of at least 50 for smoke. Minimum performance is 2.0 CADR/Watt and the standby power requirement is 2.0 Watts. The OxyPure passed the test handily.

Criteria	Standard	Measured
Smoke CADR (ft ³ /min.)	>50	150.6
Total Energy Consumed (Watts)	--	38
Smoke CADR/Watt (ft ³ /min./W)	>2.9	3.9
Standby Power (Watts)	<1	0.76

Electrical Safety

Along with energy efficiency comes safety. The California Air Resources Board (CARB) ensures that every air purifier sold in California meets certain standards for electrical safety and performance.

The OxyPureHEPA500 was tested for electrical safety against the ANSI/UL507 electrical safety standards, and were found to be fully compliant.

Test	Standard	Measured
Electrical Safety	ANSI/UL507	Compliant

Formaldehyde, VOCs, and Fumes

Formaldehyde is a colorless, strong-smelling gas that belongs to a family of chemicals called Volatile Organic Compounds (VOCs). Most people think of it as a preservative for medical specimens and mortuary work, but it is also used in a variety of other ways, such as making particleboard, plywood, and fiberboard; glues and adhesives; permanent-press fabrics; paper product coatings; and some insulation materials. It is also used to make other chemicals and as a preservative in certain foods, antiseptics, medicines, and cosmetics.

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.

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>

The OxyPure was tested against formaldehyde to see how well the unit would remove it, as similar gases, VOCs and fumes.

Gases, VOCs, Fumes	Removal Rate	Time (Min.)
Formaldehyde	97.4%	240

Clean Air Delivery Rate & Removal Efficiency

The Clean Air Delivery Rate (CADR) measures clean air flow out of the unit against different air pollutants, in this case smoke, dust and pollen.

There are a number of different factors that go into CADR from particle size and composition to fan speed to filter cleanliness. You can see this in the following chart:

Particulate Matter (Size in microns)	CADR (Ft ³ /Min.)	Removal Efficiency
Smoke (0.1µm-1µm)	150.6	100% in 100 minutes
Dust (0.5 µm-3 µm)	149.8	100% in 2 hours
Pollen (5 µm-11 µm)	181.5	100% in 40 minutes

Notice that while the particle size for each is the same, the CADR for each kind of particle is markedly different, with dust having the lowest CADR while pollen has the highest by a wide margin.

Smoke, dust and pollen are not the only particle pollutants that can find in your home. The table on the next page will introduce you to some of them and put their size into perspective for you.

POLLUTANTS

INDOOR POLLUTANTS • ALLERGIES & SLEEP

The NuWave OxyPure HEPA 500 can handle a wide variety of indoor air pollutants. Many of these are far too small to be seen with the human eye, but they all have the potential to cause serious health problems.

Size (µm)	Particles and Pathogens
10	Fertilizer, Pollen, Plant and Flower Allergens, Mold Spores, and Dust Mites
4	Iron Dust, Textile Dust, Fiberglass Installation, and Tobacco Smoke
3	Cement Dust, Burning Wood, and Mold Spores
2.5	Combustion Related, Motor Vehicles, and Industrial Emissions
2	Lead Dust, Carbon Black Dust, Spores, and Asbestos
1	Fiber Glass, Coal Dust, Anthrax, and Auto and Car Emissions
0.5	Talcum Dust and Copier Toner
0.2	Bacteria, Carbon Black Dust, Insecticide Dust, Burning Wood Smoke, and Coal Flue Gas
0.1	Paint Pigments, Clay, Lead and Radioactive Fallout
0.09	Viruses and Atmospheric Dust

Gases, VOCs, and Fumes

Pollutant	Examples
ODORS	Household Fumes, Smoke, and Cooking Odors
VOCs	Formaldehyde and Benzene from Carpets, Flooring, Furniture, Glues, and Cleansers.
FUMES	Nitrogen Dioxide from Gas Stoves and Car Exhausts
OZONE	Pollutants Emitted by Power Plants, Oil Refineries, and Chemical Plants

Did you know...



When you react to any allergen or irritant, it is your body's immune system working to clear away the harmful or irritating substance by generating antibodies to hunt down the intruder while releasing histamine and a variety of other substances that cause the typical symptoms seen in allergic reactions, which can range from the barely noticed to the mildly irritating to the deadly.

The OxyPure can help with airborne allergens such as pollens, dust, dustmites, mold spores, wood and coal ash, and any other particle that might be floating around in your home's air, eliminating them so that you breathe easier day and night.

Sleep is Important



Allergies can do more than just make you itch and sneeze. They can keep you up, or keep your spouse up, as you snore and even choke your way through the night. In addition to robbing you of rest, nights like this can leave you dragging through the day and even lead to things like weight gain, headaches, cognitive changes and confusion. It could even be a sign of something even more dangerous, sleep apnea.

There are as many causes for excess snoring as there are symptoms of it, ranging from bone structure to swelling to obesity and even pregnancy, but two of the most common are congestion due to allergies and colds, and the use of antihistamines to relieve that congestion and sleeping pills to try a get at least some rest.

If allergies are your problem, instead of relying entirely on pills that can make things worse (never, of course, stop any medication without your doctor's advice), do something about the allergens in your air with a good air purifier with a high CADR and good HEPA/Carbon filters like the OxyPure. The cleaner the air, the less your allergies will bother you. It's that simple with OxyPure.

WARRANTY

MANUFACTURER WARRANTS • WARRANTY DOES NOT COVER • OBTAIN SERVICE • MANUFACTURER'S OBLIGATION

THE MANUFACTURER WARRANTS

NuWave, LLC warrants that OxyPureHEPA 500 Portable Smart Air Purifier will be free from manufacturer defects for 1 year from the date of purchase, under normal household use, and when operated in accordance with the Manufacturer's written instructions. The Limited Warranty covers the Original Purchaser only. The Manufacturer will provide the necessary parts and labor to repair the product at the NuWave LLC Service Department. After the expiration of the warranty, the cost of the parts and labor will be the responsibility of the owner.

THE WARRANTY DOES NOT COVER

The Limited Warranty is voided if repairs are made by an unauthorized dealer, or the serial number data plate is removed or defaced. Normal deterioration of finish due to use or exposure is not covered by this Warranty. This Limited Warranty does not cover failure, damages, or inadequate performance due to accident, acts of God (such as lightning), fluctuations in electric power, alterations, abuse, misuse, misapplications, corrosive-type atmospheres, improper installation, failure to operate in accordance with the Manufacturer's written instructions, abnormal use, commercial or rental uses, or resold units. NuWave LLC reserves the right to void the Limited Warranty, where allowable by law, for products purchased from an unauthorized dealer.

TO OBTAIN SERVICE

The owner shall have the obligation and responsibility to pay for all services and parts not covered by the warranty; prepay the freight to and from Service Department for any part or system returned under this warranty; and carefully package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include in the package the owner's name, address, daytime telephone number, a detailed description of the problem, and your Return Goods Authorization (RGA) number. Call 1-877-689-2838 or email help@nuwavenow.com to obtain the RGA number. Provide the cooking system model & serial number and proof of date of purchase (a copy of the receipt) when making claims under this warranty.

MANUFACTURER'S OBLIGATION

The Manufacturer's obligation under this Limited Warranty is limited, to the extent allowable by law, to repairing or replacing any part covered by this Limited Warranty which upon examination is found to be defective under normal use. The Limited Warranty is applicable only within the continental United States and only to the original purchaser of the manufacturer's authorized channels of distribution. THE LIMITED WARRANTY MAY NOT BE ALTERED, VARIED OR EXTENDED EXCEPT BY A WRITTEN INSTRUMENT EXECUTED BY THE MANUFACTURER. THE REMEDY OF REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS LIMITED WARRANTY IS EXCLUSIVE. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES TO ANY PERSON, WHETHER OR NOT OCCASIONED BY NEGLIGENCE OF THE MANUFACTURER, INCLUDING WITHOUT LIMITATION, DAMAGES FOR LOSS OF USE, COSTS OF SUBSTITUTION, PROPERTY DAMAGE, OR OTHER MONEY LOSS.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation exclusions may not apply. This Limited Warranty gives specific legal rights, and there may also be other rights which vary from state to state. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED ABOVE, THE MANUFACTURER MAKES NO WARRANTIES EXPRESSED OR IMPLIED ARISING BY LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO ANY OTHER PERSON. READ YOUR OWNER'S MANUAL. IF YOU STILL HAVE ANY QUESTIONS ABOUT OPERATION OR WARRANTY OF THE PRODUCT, PLEASE CONTACT NUWAVE LLC.

DISPUTE RESOLUTION PROCEDURE

For disputes relating to use of the website or use or purchase of a NuWave product or service (collectively "Disputes"), you agree to first contact NuWave LLC at (877) 689-2838, or legal@nuwavenow.com. If we cannot resolve your dispute informally, any and all disputes shall be submitted to final and binding arbitration. You may start the arbitration process by submitting in writing a demand to the American Arbitration Association ("AAA") and sending a copy to NuWave. NuWave will pay all filing costs. A single arbitrator of the AAA will conduct the arbitration in a location convenient to you or by phone. The arbitrator's award will be binding and may be entered as a judgment in a court of competent jurisdiction. The arbitration will be conducted in accordance with the provisions of AAA's Commercial Arbitration Rules and Mediation Procedures in effect at the time of submission of your demand for arbitration. See https://www.adr.org/sites/default/files/CommercialRules_Web.pdf. Except as may be required by law as determined by an arbitrator, no party or arbitrator may disclose the existence, content, or results of any arbitration hereunder without prior written consent of both parties.

A. WAIVER OF RIGHT TO SUE. By agreeing to arbitration, you understand that, to the maximum extent permitted by law, you are agreeing to waive your right to file suit in any court, to a court hearing, a judge trial, or a jury trial.

B. CLASS ACTION WAIVER. To the maximum extent permitted by law, you expressly agree to refrain from bringing or joining any claims in any representative or class-wide capacity, including but not limited to, bringing or joining any claims in any class action or class-wide arbitration.

C. OPT OUT PROCEDURE. To request to opt out of arbitration you must contact NuWave LLC at 1-877-689-2838 (Mon–Fri 7:30am–4:30pm CST), or email help@nuwavenow.com. You will have 30 days from the date of product delivery to opt out of arbitration with respect to any dispute arising out of or relating to use or purchase of any NuWave product. If more than 30 days have passed, you are not eligible to opt out of arbitration and will have waived your right to sue or participate in a class action with respect to the dispute arising out of your purchase or use of a NuWave product. For any dispute arising out of your use of NuWave's website, you have 30 days from the date you provided information to the website to opt out of arbitration. If more than 30 days have passed, you are not eligible to opt out of arbitration and you will have waived your right to sue and participate in a class action with respect to the dispute arising out of your use of NuWave's website.

D. SOME MATTERS ARE NOT SUBJECT TO ARBITRATION. Notwithstanding the foregoing, the following shall not be subject to arbitration and may be adjudicated only in the state and federal courts of Illinois: (i) any dispute, controversy, or claim relating to or contesting the validity of our intellectual property rights and proprietary rights, including without limitation, patents, trademarks, service marks, copyrights, or trade secrets; (ii) an action by a party for temporary, preliminary, or permanent injunctive relief, whether prohibitive or mandatory, or other provisional relief; or (iii) interactions with governmental and regulatory authorities. You expressly agree to refrain from bringing or joining any claims in any representative or class-wide capacity, including but not limited to, bringing or joining any claims in any class action or any class-wide arbitration.

WARNING

STATE OF CALIFORNIA PROPOSITION 65

WARNING

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and Bisphenol A (BPA) and lead, which are known to the State of California to cause birth defects or other reproductive harm.

For more information go to: www.P65Warnings.ca.gov.

ADVERTENCIA

Este producto puede exponerle a químicos, incluidos el plomo, el cual es conocido en el Estado de California por causar cáncer y Bisfenol A (BPA) y plomo, los cuales son conocidos en el Estado de California por causar defectos de nacimiento u otros daños reproductivos.

Para mayor información, visite: www.P65Warnings.ca.gov.

READ YOUR OWNER'S MANUAL

If you still have any questions about operation or warranty of this product, please contact NuWave LLC at 1-877-689-2838 (Mon–Fri 7:30am–4:30pm CST), or email help@nuwavenow.com.

nuwave®

OXYPURE PORTABLE AIR PURIFIER

FOR HOUSEHOLD USE ONLY

DC24V, 1.5A, 34 Watts

Model: 47401 / 47402

For patent information please go to:

www.nuwavenow.com/legal/patent

Designed & Developed in USA

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