

Frequently Asked Questions



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Is the Purus Air Hypochlorous Acid (HOCl) solution safe?

Hypochlorous Acid is all natural and friendly to people, pets, plants and property. HOCl is in our white blood cells to fight disease. It has been an effective, safe cleaner in hospitals and healthcare for over a century. Purus Air Hypochlorous Acid (HOCl) solution is registered with the EPA (registration number 921081) and is on the CDC List N of coronavirus killing disinfectants. Our solution contains no harsh chemical additives. The HOCl particle has a positive charge in the dry fog seeking the negatively charged pathogen or bacteria. When the HOCl particle bonds the pathogen's cell walls are destroyed, killing it. It takes 200 parts per million (ppm) for COVID-19, stronger viruses like C-diff need 450 ppm. Purus Air produces a dry fog of our HOCl solution which stays suspended in the air, this **Purus Effect kills pathogens (viruses and bacteria) for several hours in the air and on surfaces**

What does the CDC recommend for treating spaces for coronavirus?

Only treating surfaces doesn't kill COVID in the air where it lives. COVID is a 6-to-8-micron airborne virus coming from infected people's voice box and can spread up to 30 feet. It will sit from one to eight hours in the air depending on airflow. COVID is primarily transmitted through the air.

"The principal mode by which people are infected with SARS-CoV-2 (the virus that causes COVID-19) is through exposure to respiratory droplets carrying infectious virus.

Airborne transmission consists of exposure to smaller droplets and particles at greater distances or over longer times.

"Spread from touching surfaces is not thought to be the main way the virus spreads." CDC, October 5, 2020 and January 19, 2021

What's the difference between a dry fogger and a wet sprayer?

It is easy to differentiate between a fogger and a sprayer, it all depends on the particle size that the device produces. Purus Air produces a dry fog of 5-micron size particles, this is very small. By comparison the average human hair is 40 microns thick. To produce a dry fog the device needs to produce particles of 10 microns or smaller. **A device that produces particles larger than 10 microns will shoot a wet spray and is considered a sprayer not a fogger.** Unlike Purus Air, a sprayer produces wet particles over 10 microns in size that will not be safe to use on electronics, furniture, carpets, curtains, paper and other sensitive materials. The heavier particles from a sprayer will almost immediately fall to the floor and not kill pathogens in the air. A dry fog will touch all surfaces and reduce the chance of human error from using traditional spray-and-wipe or point-

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and-shoot methods that only affect what is contacted directly. **To determine if a device is a dry fogger or a wet sprayer check the particle size that the device produces.**

I already have a cleaning protocol and have spent money on devices. Why do I need Purus Air?

Purus Air fights COVID in the air as well as on surfaces which is the complete source of virus transmission. A cleaning protocol for surfaces is good but will be mostly ineffective to kill a primarily airborne pathogen like COVID. UV light is ineffective in spaces where the light cannot hit or may be ineffective on black or dark surfaces like keyboards. Devices that produce particles bigger than 10 microns produce wet droplets that fall to surfaces quickly so have a short effective range and time to kill airborne pathogens and usually use harsh chemicals. Purus Air's small 5-micron HOCl particles are dry, producing the **Purus Effect which keeps the HOCl particles airborne like a gas, killing pathogens and bacteria in the air and on surfaces for several hours.**

The Purus Air's dry particles do not harm or destroy electronics, surface finishes, furniture, papers, fabrics or other materials. The all-natural HOCl solution kills pathogens and bacteria better than bleach, but contains no harsh chemicals delivering unintended consequences that harm people, pets, plants or property. Once the Purus Air treatment has finished in an area all surfaces can still be wiped down to follow your existing protocols.

How do you know if my Purus Air system is working?

Our Purus Air app (launching 2021) that comes with the system helps you to record who, where and when the Purus Air was used. The Purus Air app also records how much solution was used and for how long. The app can also record before and after application surface bacteria loads so you can prove that the treatment worked. We also have air quality measurement available that can be sent to a qualified lab to test for the presence of specific pathogens including coronavirus.

How much Purus Air HOCl solution will I need?

It depends on the amount of space you are treating and how frequently. An easy-to-use calculation is that a Purus Floor Model running for one hour or less will use one gallon of Purus HOCl solution to treat 7500 square feet of space with a 10-foot-high ceiling.

Can I use another solution in the Purus Air machine?

No, our Purus Air Hypochlorous Acid (HOCl) solution and Purus Air antimicrobial solution (AMS) are **specially formulated** to work best with the nebulizer that creates the dry fog. Use of another solution will void the Purus Air warranty and may damage the Purus Air machine. For more information on **Purus Water** and how it will **purify your water supplies from pollutants, viruses and bacteria** please ask us for more information.

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How long will the Purus Air fog stay in the treated air with the Purus Effect of continuing to kill pathogens in the air?

Depending on the treated area's HVAC system the dry fog HOCl particles will continue **the Purus Effect** killing pathogens and bacteria in the air and on surfaces for several hours. The Purus Effect will last longer with more applications over time and more frequent applications.

How frequently do I need to apply Purus Air?

We recommend first using our Purus Air 90-day or one-year antimicrobial solution (AMS) on all surfaces to prevent viruses and bacteria from living on the surfaces. The amount of Purus HOCl solution that should be used is based on the foot traffic and use of the area. Some heavily trafficked areas would need fogging once a day, perhaps using Purus Air backpacks for touch ups and small spaces such as vehicles, elevators, bathrooms, etc. Other areas like conference rooms or private offices could be treated every other day or a couple of times a week. Your Purus Air distributor will work with you to create a suggested protocol for using Purus Air in your spaces.

How long does the Purus Air antimicrobial solution remain effective?

We have two antimicrobial solutions: our standard Purus AMS lasts 90 days. **Our long lasting Purus Air antimicrobial solution (AMS) lasts up to a year.** Most antimicrobial sprays do not last more than 24 hours.

What is quat?

Quat is the common name for quaternary ammonium chloride compounds of which there are about 300 varieties, all with varying anti-microbial efficacies. Quats are generally surfactants with cationic (positive) charges. Due to their surfactant make-up, quats contribute cleaning power to their formulas. Quats can be very abrasive and may be harmful to surfaces, humans and animals unlike our all-natural Purus Air HOCl solution.

Can Purus Air be installed in the HVAC system?

No, the Purus Air HOCl particles would evaporate in the HVAC system. We recommend that the HVAC system fan be turned off in the area to be fogged for 30 minutes. This will allow the fog to do its work maximizing the **Purus Effect**. Once the HVAC fan is turned on and recirculating the air the Purus Air dry fog will clean the ductwork as it goes through the system. We do recommend applying the Purus Air one year antimicrobial on the HVAC system filters for added protection against pathogens and bacteria in the airflow.

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How will Purus Air work with my smoke detection system?

It will depend on the smoke detection system that you have. Where possible, we recommend temporarily turning the smoke detector system off in the area to be treated for one hour. Your Purus Air distributor will work with you to determine the best protocol for using Purus Air with your smoke detection system.

How does Purus Air compare to UltraViolet (UV) light treatments?

UltraViolet lights will kill viruses when the UV light hits them. UV light cannot kill in the shadows and areas where the light cannot shine to hit the hidden viruses and pathogens. Purus Air produces a fog that behaves like a gas. The dry fog fills the air killing viruses and the **Purus Effect will continue killing pathogens and bacteria for several hours.** The Purus Air particles travel on the air currents killing on all surfaces the air touches. UV lighting systems are expensive investments costing \$150,000 or more. The UV systems are typically big, bulky machines that are not readily portable to all area in your space unlike our Purus Air backpack. UV light is dangerous to people's eyes and skin if they are exposed. UltraViolet light may be ineffective to kill viruses on black or dark surfaces like keyboards and may cause materials like textiles, plastics or polymers to degrade. **Purus Air is safe for humans, animals, surfaces and materials.**

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