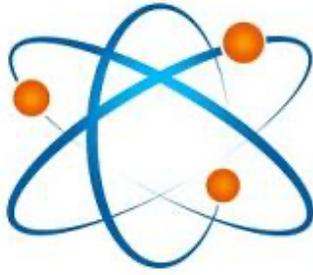


ACTION AIR
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Information Worksheet for the Aerus Air Scrubber & Purification Unit

1. The Air Scrubber by Aerus® utilizes 3 different technologies: Active Pure® to kill viruses, plus ionization to prevent dust, and ozone to eliminate odors. The technologies are UV light, ionic oxidizers, and filtration of organic organisms (ie mold, allergens, virus strains).
2. Proven to kill RNA viruses on contact by researchers at the University of Cincinnati. RNA viruses include bird flu, swine flu, SARS, Ebola, MRSA and the common cold. Note: The coronavirus (Covid-19) is also an RNA virus.
3. The Aerus Air Scrubber is scientifically proven to reduce the number of employee sick days and the number of common cold and flu outbreaks in office and other work environments. Device earns back the expense of purchase by reducing overtime and other sick leave related costs & revenue loss.
4. Proven to assist in reducing the number of incidents for those with chronic respiratory issues. The advantage this system has over the others is that it sends out VOC (Volatile Organic Compounds) killing molecules to attack them where they are as opposed to the others who have to rely on the HVAC system to bring the contaminants to them.
5. The air scrubber carried by Action Air is the only product on the market with the prestigious Certified Space Technology seal of approval by the Space Foundation which was created in cooperation with NASA. Scaled down version of the unit on the space shuttle.
6. In addition to bacteria, the air scrubber particles destroy viruses, organic microbes, fungi and mold (+ black mold) not only in the air but on surfaces such as counter tops, light switches, cell phones, toys and door knobs, preventing cross contamination.
7. Also eliminates odor causing bacteria (without using ozone). Protects against allergy/asthma contaminants that trigger respiratory issues & chronic pulmonary conditions. This Air Scrubber is proven to actually improve a person's productivity from exposure to healthier, cleaner air and surfaces.
8. Average Active Pure Cell lifespan is 2-3 years. Reduced dust collection on surfaces so you don't have to dust as often.
9. The scientific research was performed by Kansas State University and was later validated by the University of Cincinnati.
10. Besides making people feel better, Aerus has said that the air scrubber technology also helps extend the life of a home's HVAC system
As cleaning particles surround small particles that could potentially damage coils & blowers are no longer able to pass through the filter and cause damage to the HVAC System.



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ALTERNATIVE PRODUCTS TO AIR SCRUBBERS & WHY THEY ARE NOT AS EFFECTIVE OR SAFE

a) Ionizers – Reduce dust in the air and can kill **some** viruses but every ionizer is different, -creating inconsistencies for the protection against viruses & pathogens.

b) HEPA Filters – Most Viruses are too small and unless they somehow get trapped by directly hitting the fibers in the filter, then it is likely that at least some of the virus will pass right by and continue into the air distribution system. Even true HEPA filters will only filter out completely microns down to .3 microns with 99.97% efficiency rate. Since viruses are much smaller than the filter fiber weave and can completely pass through even true HEPA filters. HEPA filters catch **some** viruses, but smaller strains still pass through & can increase contagion contraction at-risk behavior in people due to belief that the filter protects from all virus strains. Standard filters are unlikely to be of much assistance in capturing viruses, of any sort. The viruses are too small and pass easily through the gaps in the filters.

c) UV Lamps – UV light kills viruses that come within a certain distance in inches from the lamp for at certain amount of time, so they cannot purify your whole home. (A hand held 4 inch long UV light takes up to 20 minutes to disinfect a 36 square inch sized area, picture a container that is 6 inches in length on each side, the UV light source must be within 4 inches of the surface area for a 20 minute timeframe to allow for proper/complete disinfection). They are not very effective at ridding any virus from the ducting system as they are not likely to be exposed to the UV light for a long enough period to do damage to the VOC's.

d) Ozone Generators – High levels of ozone kills viruses but is dangerous to humans and animals so should only be used at times when humans and animals are not in the home. The primary use of ozone with airflow systems is to serve as a odor neutralizer.

e) One other thing to think about is many of these products such as the HEPA filters (or any high efficiency filter) is going to restrict HVAC airflow. A static pressure reading has to be taken prior to installation and often time, duct modifications are necessary to keep the system running properly. If the static pressure (resistance to airflow) gets too high, your systems components such as the compressor and ECM motors can fail prematurely. Most of the things listed above should not be attempted to be installed by anyone other than a licensed & insured HVAC Service Provider.

https://spinoff.nasa.gov/Spinoff2015/cg_7.html

<https://www.google.com/amp/s/www.anthonypnc.com/blog/killing-viruses/amp/>

<https://www.whitcherplumbing.com/aerus-air-scrubber>

<https://legacyac.com/how-air-filters-air-quality-products-effect-viruses-like-covid-19/>