

aerus active pure technology

Aerus Active Pure Technology: A Deep Dive into Air Purification Innovation

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1. Introduction: The Rise of Aerus Active Pure Technology

The pursuit of cleaner, healthier air has driven significant innovation in air purification technology. Among the advancements, Aerus Active Pure Technology stands out as a system claiming unique capabilities in neutralizing airborne contaminants. This analysis will explore the historical context of Aerus Active Pure Technology, delve into its mechanisms, assess its effectiveness, and discuss its current relevance in addressing indoor air quality concerns.

2. Historical Context: From UV-C to ActivePure

Early air purification technologies primarily relied on HEPA filters to mechanically remove particulate matter. However, these systems often lacked the ability to effectively neutralize airborne bacteria, viruses, and mold spores. The development of UV-C light technology offered a solution for inactivation, but its effectiveness was often limited by direct exposure requirements. Aerus Active Pure Technology represents an evolution,

combining multiple technologies to achieve broader efficacy. Its development built upon earlier research in photocatalytic oxidation (PCO) and UV-C irradiation, seeking a synergistic effect for superior air purification. The initial iterations focused on smaller-scale applications, but subsequent improvements in efficiency and scalability led to its integration into a range of products for both residential and commercial use.

3. Aerus Active Pure Technology: How it Works

Aerus Active Pure Technology is a multi-stage purification system that combines several key components:

High-Efficiency Particulate Air (HEPA) Filtration: This crucial first step physically removes larger particles like dust, pollen, and pet dander.

Photocatalytic Oxidation (PCO): This process employs a titanium dioxide catalyst and UV-C light to break down harmful pollutants at a molecular level. The UV-C light activates the catalyst, which then reacts with pollutants, oxidizing them into harmless byproducts like carbon dioxide and water.

UV-C Irradiation: The UV-C light itself also directly inactivates microorganisms such as bacteria, viruses, and mold spores by damaging their DNA.

Activated Carbon Filtration: In many Aerus Active Pure systems, activated carbon filters further remove odors and volatile organic compounds (VOCs).

The synergistic interaction of these components is crucial to the technology's claimed efficacy. The HEPA filter pre-cleans the air, ensuring that the PCO and UV-C components are not overwhelmed with large amounts of particulate matter, thus maximizing their effectiveness in neutralizing airborne contaminants. The sequence of these processes allows for comprehensive purification, targeting both particulate and gaseous pollutants, along with microorganisms.

4. Effectiveness and Scientific Evidence

The effectiveness of Aerus Active Pure Technology has been supported by several independent studies and laboratory tests. These studies have demonstrated significant reductions in various airborne contaminants, including bacteria, viruses, mold spores, and VOCs. However, it's important to note that the specific efficacy can vary based on factors such as the size of the space, the concentration of contaminants, and the specific model of the Aerus Active Pure system being used.

Further research and independent testing continue to refine our understanding of the technology's capabilities and limitations under diverse environmental conditions. The availability and accessibility of published data on specific testing protocols are crucial for complete transparency and ensuring objective evaluation of the system's performance. While many studies support its efficacy, a comprehensive meta-analysis of all available studies would provide a more robust conclusion regarding overall performance across different scenarios.

5. Current Relevance and Applications

Aerus Active Pure Technology holds considerable relevance in today's world, particularly given growing concerns about indoor air quality and the spread of airborne infectious diseases. Its applications span a wide range:

Residential Settings: Improving air quality in homes, benefiting individuals with allergies, asthma, or respiratory sensitivities.

Commercial Spaces: Enhancing air quality in offices, schools, hospitals, and other public spaces to protect occupants from airborne pathogens and pollutants.

Healthcare Facilities: Contributing to infection control measures in hospitals and clinics by reducing the risk of airborne transmission of pathogens.

The ongoing pandemic underscored the critical need for effective air purification in public spaces, further highlighting the significance of technologies like Aerus Active Pure Technology.

6. Limitations and Considerations

While Aerus Active Pure Technology offers significant advantages, several aspects require consideration:

Maintenance: Regular filter replacement and maintenance are essential for optimal performance.

Energy Consumption: The UV-C lamps and fans consume energy, impacting operational costs.

Cost: Aerus Active Pure systems can be relatively expensive compared to simpler air purifiers.

Specific Contaminant Efficacy: While effective against many contaminants, specific performance may vary against certain types of pollutants. More detailed studies are needed to provide granular performance data for specific pathogens and airborne contaminants.

A balanced assessment requires acknowledging these limitations alongside its potential benefits.

7. Conclusion

Aerus Active Pure Technology represents a significant advancement in air purification, combining multiple technologies for a more comprehensive approach to cleaning the air. Its multi-stage system, incorporating HEPA filtration, PCO, and UV-C irradiation, offers a potent strategy for neutralizing various airborne contaminants. While ongoing research is crucial to fully characterize its capabilities under diverse conditions, available evidence suggests its potential benefits in enhancing indoor air quality, particularly in residential and commercial settings. A transparent and accessible body of research is critical for maintaining consumer confidence and ensuring responsible implementation of this promising technology. Its effectiveness, cost, and maintenance requirements must all be weighed when deciding on its suitability for a specific application.

FAQs

1. Is Aerus Active Pure Technology safe for humans and pets? Generally, yes. The byproducts of the PCO process are harmless carbon dioxide and water. However, prolonged direct exposure to UV-C light should be avoided.
1. How often do I need to replace the filters in an Aerus Active Pure system? Filter replacement frequency depends on usage and air quality but is typically indicated by the system or manufacturer guidelines.
1. How effective is Aerus Active Pure Technology against COVID-19? Studies suggest it can significantly reduce the viability of SARS-CoV-2, but complete virus elimination is not guaranteed in all circumstances.
1. Does Aerus Active Pure Technology remove odors? Many models include activated carbon filters to help remove odors and VOCs, but the effectiveness depends on the specific model and the type of odor.
1. What is the energy consumption of Aerus Active Pure systems? This varies depending on the model, but information is typically available in product specifications.
1. Can Aerus Active Pure Technology be used in all types of environments? While adaptable to various settings, optimal performance depends on factors like room size and contaminant levels.
1. What is the price range for Aerus Active Pure systems? The cost varies significantly based on model size and features.
1. How does Aerus Active Pure Technology compare to other air purification technologies? It offers a broader range of contaminant neutralization compared to many HEPA-only systems but is typically more expensive.

1. Where can I purchase an Aerus Active Pure system? They are typically sold through authorized dealers and online retailers.

Related Articles:

1. "A Comparative Analysis of Aerus ActivePure Technology and HEPA Filtration Systems": This article provides a detailed side-by-side comparison of Aerus Active Pure Technology and traditional HEPA filtration systems, highlighting their strengths and weaknesses.
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Patented Cell Design Protect Your Indoor Air and Surfaces 24/7

- Our proprietary ActivePure® Technology uses high-intensity UVC light and a catalytic process to produce scrubber ions and hydro-peroxides that inactivate contaminants on surfaces and in the ...

Features ActivePure Technology proven to reduce viruses, ...

HOW IT WORKS Laundry Pro 2.0 combines the power of our exclusive ActivePure Technology, with the cleaning action of water with hydrogen & oxygen-based molecules to lift dirt and grime ...

The Healthy Home Experts - aerusofburnaby.com

Proof”) THE TECHNOLOGY The Aerus AP500 is our smallest-profile product Powered by ActivePure®, mounting directly int. a standard wall outlet. Patented ActivePure Technology is ...

Aerus' ActivePure Technology Inducted Into Prestigious Space ...

Apr 6, 2017 · ActivePure Radiant Catalytic Ionization (RCI) Technology was initially developed by NASA scientists to eliminate ethylene gas onboard the International Space Station and has ...

The Healthy Home Experts - Aerus

The Aerus Pure & Clean reduced 99.96% of airborne SARS-CoV-2, the virus responsible for COVID-19, within 3 minutes. This military lab test was done on the lowest setting using only ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on

The Aerus Hydroxyl Blaster with ActivePure Technology is an affordable, mobile, plug-and-purify air purifier that works on interior aerosolized pathogens and surface contaminants.

Clinical Trial to Study Impact of ActivePure Technology on ...

Dec 16, 2020 · Aerus Medical Guardian with ActivePure Technology, a U.S. FDA Class II Medical Device, reduces bacteria and viruses in the air by 99.99% within 30 minutes and surface ...

FREQUENTLY ASKED QUESTIONS (FAQs)

- Attaches to the existing heating and cooling system • Uses our proprietary ActivePure® Certified Space Technology™ • Destroys up to 99% of surface and airborne contaminants
- ...

The Healthy Home Experts - US Air Purifiers

The Aerus Pure & Clean reduced 99.96% of airborne SARS-CoV-2, the virus responsible for COVID-19, within 3 minutes. This military lab test was done on the lowest setting using only ...

Aerus ActivePure Technology Announces SARS-CoV-2 Test ...

The Aerus Hydroxyl Blaster with patented ActivePure Technology is a free-standing portable air and surface purification system intended for the reduction of the SARS-CoV-2 coronavirus and ...

Protecting Indoor Air and Surfaces - aerusofaugusta.com

THE TECHNOLOGY carbon, and ActivePure Technology. Patented ActivePure Technology is an advanced surface and air purification technology. It has been proven to reduce over 99.9% of ...

Protecting Indoor Air and Surfaces - Germ Solutions USA

Over a decade of testing, patented ActivePure® Technology has been proven to reduce over 99.9% of many common airborne and surface contaminants including viruses, bacteria, mold, ...

NASA-Based ActivePure Technology® Rapidly Eliminates ...

Within 3 minutes, ActivePure Technology-based Aerus® Pure & Clean and Vollara® Air & Surface Pro units, calibrated to their lowest setting of only 29 cubic feet per minute of air movement, ...

Protecting Indoor Air and Surfaces - aerusofwesthartford.com

THE TECHNOLOGY The Aerus® Pure Cloud provides ActivePure Technology in the form of a 2' x 2' ceiling tile for situations when a portable unit cannot fit in the room. Patented ActivePure ...

ActivePure Validation - Accurate Home Services

Test Results for ActivePure® SARS-CoV-2 (COVID-19) on Surfaces 93.3% reduction 97.99% reduction 99.98% reduction OVER 99.9% of SARS-CoV-2 on surfaces • Tested at MRIGlobal • ...

Protecting Indoor Air and Surfaces - aerusofaugusta.com

THE TECHNOLOGY The Aerus® Beyond Guardian Air combines multiple complementary technologies, including HEPA, activated carbon, and ActivePure Technology. Patented ...

ActivePure Technologies Expands Senior Leadership

ActivePure, a NASA-based technology, is a patented air and surface disinfection technology used in more than 100 products to provide safe and clean environments reducing viruses and ...

AIR PURIFICATION SYSTEM

May 13, 2020 • • Replacing the UVC bulb with a genuine Beyond by Aerus part • Annually and replacing the ActivePure® Cell with a genuine Beyond by Aerus part every 2 years (proof of ...

Protecting Indoor Air and Surfaces - aerusde.com

THE TECHNOLOGY The Aerus Pure & Clean combines multiple complementary

technologies, including HEPA, activated carbon, and ActivePure Technology. Patented ActivePure ...

Aerus ActivePure Technology Announces SARS-CoV-2 Test ...

The Aerus Hydroxyl Blaster with patented ActivePure Technology is a free-standing portable air and surface purification system intended for the reduction of the SARS-CoV-2 coronavirus and ...

Aerus ActivePure Technology Announces SARS-CoV-2 Test ...

The Aerus Hydroxyl Blaster with patented ActivePure Technology is a free-standing portable air and surface purification system intended for the reduction of the SARS-CoV-2 coronavirus and ...

description applications the technology specifications

The Air Scrubber Plus by Aerus substantially reduces odors, visible smoke in the air, and microbial populations on surfaces*, utilizing the patent pending ActivePure® Technology. ...

Aerus Air Filtration Products - ozone-medical.fr

Units with ActivePure® Technology pull free oxygen and water molecules in the air through ActivePure®'s patented honeycomb matrix. The technology creates powerful oxidizers, known ...

GUARDIAN HEATER - aerusoffortworth.com

efficiency that only comes from the Beyond by Aerus Guardian Heater. Our proprietary ActivePure Technology sends out oxidizers to remove contaminants and odors as the air is heated. The ...

ActivePure Technologies To Hire 50 New Employees at ...

Jan 15, 2021 • Aerus Medical recently began a two-year clinical trial with the Cleveland Clinic to study the impact of ActivePure Technology on surgical site infections; and • In June 2020, the ...

The Healthy Home Experts - Aerus

The Beyond by Aerus Guardian Heater combines ActivePure Technology with a ceramic heater, offering you a wallet and eco-friendly heating and indoor space purifying option for the colder ...

The Healthy Home Experts

THE TECHNOLOGY The Aerus AP500 is our smallest-profile product Powered by ActivePure®, mounting directly into a standard wall outlet. Patented ActivePure Technology is the most ...

Features ActivePure Technology proven to reduce viruses, ...

THE TECHNOLOGY The AirScrubber by Aerus® attaches directly to the HVAC system ductwork to reduce viruses, bacteria, and other contaminants in the ambient air and on surfaces while ...

GUARDIAN HEATER - Aerus of Augusta

efficiency that only comes from the Beyond by Aerus Guardian Heater. Our proprietary ActivePure Technology sends out oxidizers to remove contaminants and odors as the air is

heated. The ...

Air Scrubber Mobil - M.E. Flow

MOBILE BY AERUS WITH CERTIFIED SPACE TECHNOLOGY™ The Air Scrubber Mobile by Aerus is a pocket-sized unit that significantly reduces unpleasant odors, contaminants and ...

Protecting Indoor Air and Surfaces - Zehnacker

THE TECHNOLOGY The Aerus® Mobile is a device intended for the reduction of contaminants in the ambient air in smaller indoor and personal spaces. Ideal for travel, work stations, small ...

HYDROXYL B L A S T E R - aerusofaugusta.com

The ActivePure® Technology built into each Aerus Pure & Clean is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

Quality of Life Home Improvement Questionnaire - Columbia ...

The ActivePure® Technology built into each Air Scrubber by Aerus is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

BEYOND BY AERUS 2015 - irp-cdn.multiscreensite.com

ActivePure Certified Space Technology after 30 min. >90% Exposure Minutes % Reduction of Airborne Pathogens 0 100 90 80 70 60 50 40 30 20 10 0 5 10 15 20 25 30 0 5 10 15 20 25 30 ...

www.beyondbyaerus.com

Aerus of Kansas City, KS 11216 Johnson Drive Shawnee, KS 66203 Re: Aerus Beyond Guardian Air with ActivePure Technology and Lux Guardian Angel Dear Joseph, As the administrator of ...

MOBILE - Aerus

Technology built into each Aerus Mobile is based on a variation of the technology ... • ActivePure® has been tested in independent labs and proven effective on bacteria, viruses, ...

Aerus Recognized at Space Symposium and 2018 Space ...

May 29, 2018 · worldwide owners of ActivePure Technology, the most powerful air and surface purification technology ever discovered, and the only one in its class recognized by the Space ...

Home - Mountain West Institute (MWI)

ActivePure. TECHNOLOGY ACTIVE-PURE TECHNOLOGY INSTALLED IN HOSPITAL OPERATING ROOMS Bacteria Fungi 95.7 83.4 Surface Bacteria 4W/cm 90.1 REDUCTION' ...

For Air and Surfaces in Dentistry - Angel Care Dental

Aerus' ActivePure Technology inducted into the Prestigious Space Technology Hall of Fame: one of only 75 technologies to receive such an honor in 30 years Early generation of NASA ...

Protecting Indoor Air and Surfaces - aerusofcolumbus.com

THE TECHNOLOGY The Aerus® Mobile is a device intended for the reduction of contaminants in the ambient air in smaller indoor and personal spaces. Ideal for travel, work stations, small ...

Quality of Life Home Improvement Questionnaire

The ActivePure® Technology built into each Air Scrubber by Aerus is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

HYDROXYL B L A S T E R - aerusofbrewer.com

The ActivePure ® Technology built into each Aerus Pure & Clean is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

Features ActivePure Technology proven to reduce viruses,...

THE TECHNOLOGY The AirScrubber by Aerus® attaches directly to the HVAC system ductwork to reduce viruses, bacteria, and other contaminants in the ambient air and on surfaces while ...

Aerus Active Pure Technology (book) - x-plane.com

Aerus Active Pure Technology Brendan G. Carr. Aerus Active Pure Technology: Spinoff 2018 Government Publications Office, 2018-04-03 But you don't have to look that far to appreciate ...

The Healthy Home Experts - US Air Purifiers

The Aerus Pure & Clean provides continuous surface decontamination and air purification in real time without the use ... and ActivePure Technology. Patented ActivePure Technology is the ...

Aerus Expands Healthy Home Footprint in Europe with Vitha ...

Oct 16, 2017 · Together, Vitha Group S.P.A. and Aerus have come together to bring Aerus' ActivePure Technology to homes and businesses across Europe with the Beyond Guardian ...

HYDROXYL B L A S T E R - aerusofkingston.com

The ActivePure ® Technology built into each Aerus Pure & Clean is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

NL First Province in Canada to Test ActivePure Technology ...

Jun 1, 2020 · and surfaces 24 hours a day. For more information on AERUS and its remarkable technology visit www.activepure.com About PFS Health Solutions The PFS Health Solutions is ...

Around-the-Clock Protection for Your Indoor Spaces

The ActivePure Technology built into each Air Scrubber by Aerus® is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

Aerus Medical Guardian Unit Receives FDA Clearance as a ...

We are pleased to announce that the Aerus Medical Guardian with ActivePure® Technology has been cleared by the FDA as a Class II Medical Device for our Sister Company, Aerus. The ...

NASA-Based ActivePure Technology® Rapidly Eliminates ...

Dec 20, 2020 · Within 3 minutes, ActivePure Technology-based Aerus® Pure & Clean and Vollara® Air & Surface Pro units, calibrated to their lowest setting of only 29 cubic feet per ...

Aerus Pure & Clean - Aerus of Augusta

Aerus Pure & Clean 00746 Model A1040A* *MEETS CALIFORNIA OZONE EMISSIONS LIMIT. CARB CERTIFIED Power Consumption 43 Watts Max Recommended Treatment Space 500 ...

Aerus ActivePure Technology Announces SARS-CoV-2 Test ...

The Aerus Hydroxyl Blaster with patented ActivePure Technology is a free-standing portable air and surface purification system intended for the reduction of the SARS-CoV-2 coronavirus and ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on ...

ABOUT AERUS' ACTIVEPURE TECHNOLOGY: Aerus is the global leader in active, continuous surface and air purification systems for health care, education, commercial and public facilities, ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on Surfaces in Lab Results Aerus ActivePure Air and Surface Purifier Provides 99.98% SARS-CoV-2 Surface Reduction Rate in ...

Features ActivePure Technology proven to reduce viruses, ...

The ActivePure Technology built into each Air Scrubber by Aerus® is based on a variation of the technology originally developed for use on the International Space Station and is recognized ...

bmc-inc.com

ABOUT AERUS' ACTIVEPURE TECHNOLOGY: Aerus is the global leader in active, continuous surface and air purification systems for health care, education, commercial and public facilities, ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on Surfaces in Lab Results Aerus ActivePure Air and Surface Purifier Provides 99.98% SARS-CoV-2 Surface Reduction Rate in ...

ActivePure

Aerus Móvil Tecnología Eléctrico Mecánico Dimensiones Peso Temperatura de funcionamiento Cobertura Garantía ActivePure TECHNOLOGY 50111: A1018D Certificado CARB: Estándar ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on Surfaces in Lab Results Aerus

ActivePure Air and Surface Purifier Provides 99.98% SARS-CoV-2 Surface Reduction Rate in ...

Aerus ActivePure Technology Air Purifier Kills COVID-19 on ...

ActivePure Technology is available in a wide range of products, both portable and installed, and is sold by a limited number of companies including Aerus, Aerus Enterprise Solutions (AES) and ...

FEATURES AND BENEFITS - Air Scrubbers

The Air Scrubber Mobile by Aerus with ActivePure® Technology Works to Eliminate the Competition! FEATURES AND BENEFITS Made in the USA 2017 Space Technology Hall of ...

[Aerus Active Pure Technology](#)

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