



**airgle**<sup>®</sup>  
Precisely Pure

Airgle<sup>®</sup> For Dental Offices AG900  
Airgle<sup>®</sup> Extraoral Dental Smart FlexHose<sup>™</sup>



Airgle Corp is proud of our partnership with the American Lung Association and the important clean indoor air initiatives we share.

# AG900D

## Airgle<sup>®</sup> Extraoral Dental Smart FlexHose<sup>™</sup>

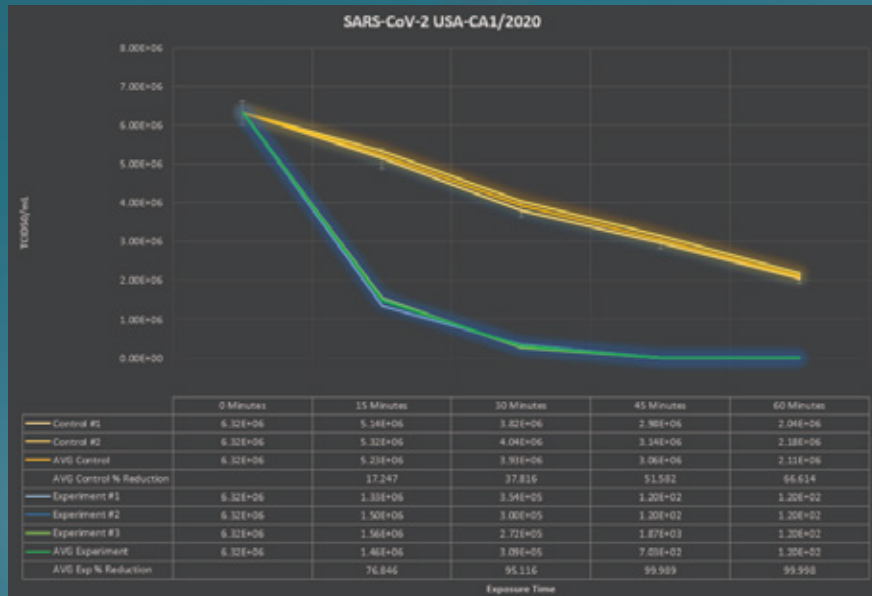
Airgle<sup>®</sup> Extraoral Dental Smart FlexHose is engineered to facilitate the removal of potentially harmful aerosols and droplets produced during procedures that require high-speed scaling and drilling. The attachment's evacuation arm can be maneuvered to place the suction snout near the patient's mouth or chest area when drilling or performing hygiene as a defense against harmful airborne pathogens and infectious material that can threaten the health and safety of patients and staff.

### Summary of Features

- Compatible with AG900
- Mobility
- Air volume/flow control from the hose
- 5 ft evacuation arm
- Evacuation arm rotates 360° degrees
- Disposable snout
- Disposable filter
- Easy installation and removal

# AG900: COVID-19 (SARS-CoV-2) virus reduction of 99.998%

(below the sensitivity limit of detection equipment)



- Purpose  
To evaluate how much airborne virus can be removed by operating the AG900 product
- Testing organization  
Certified BSL-3 laboratory in the United States
- Date of test  
June 14, 2021
- Equipment Tested  
Airgle AG900 Air Purifier
- Sample Virus  
SARS-CoV-2 USA-CA1/2020



COVID-19 (SARS-CoV-2) virus

## Test Results

The Airgle AG900 air purification device performed to manufacturer's specifications and demonstrated a reduction to below testing equipment sensitivity of greater than a 99.998% reduction of recoverable active SARS-CoV-2 virus in the air after 60 minutes of operation. There was no cytopathic effect in the lowest concentration of vero e6 cells, indicating a SARS-CoV-2 virus concentration lower than the limit of detection after a 21-day incubation.

The overall dimensions of the test chamber were approximately 20'x8'x8' with a displacement volume of 1280 cubic feet. Based on cubic foot volume the chamber had 36,245.56 liters of air.



Precisely Pure



# AG900D

## Disposable snouts and filters

Potentially infectious micro-droplets in the air are a serious concern. Selecting an air purification system that has an extraoral attachment is important, but you don't want large droplets of blood and saliva to contaminate the inside of it. We designed the AG900D with hygiene in mind. The disposable and easily removable snout improves spot collection of particles and droplets aerosolized by dental procedures. The disposable filter keeps large droplets and particles from entering the attachment and from becoming lodged in the Evacuation Arm prior to reaching the AG900 purifier.



# Environmental control for dental offices

Dentists and dental technicians are, quite rightly, concerned about infection from and between their patients. The CDC said dentistry was the most "at risk" profession in the USA even before the pandemic.

NIH research shows that micro-droplets containing viable, viral particles stay in the air for more than 3 hours. That research did not even address micro-droplets ejected from a patient's mouth during dental procedures.

These environments require specialized air purification solutions so that dental offices are safe and clean.

**Physical distancing** works by separating people and reducing the viral threat. But, that is not practical in a dental or medical practice. We provide **Mechanical Distancing™** to remove the virus from where people are and taking it out of the air as quickly as possible.



# Directional air flow conforms to CDC guidelines

Under the New CDC guidelines portable air filtration units should be near the patient's chair, but not behind DHCP. Airflow should be directed across the patient away from the DHCP.

The casters ensure that the unit is easy to position. This combined with Airgle's directional airflow allows the DHCP to properly position the unit to ensure that air is not drawn or blown toward the DHCP.

"During this uncertain time amidst the reopening of my dental practice, both my staff and patients take comfort knowing that Airgle's advanced purification system can clean the air in my treatment room every six minutes! Knowing that the air coming out of it is completely free of any contaminants is very reassuring. I can't wait for the extraoral evacuator attachment, which we'll position close to where our heads are, in order to collect the aerosol very near the source, is even more comforting. There are less expensive units on the market, but I feel that I've spent my money well. Great product and I would definitely recommend it."

Dr. Toby Kravitz DDS, FAGD

## AG900D Extraoral Dental Smart FlexHose

Designed to be attached and detached in seconds, the AG900D Extraoral FlexHose attachment allows DHCP to concentrate the intake of the AG900 right near the patient's mouth to pull droplets out of the air before they begin circulating.

The FlexHose accessory can be easily detached when not needed so that the AG900 can purify and sanitize the entire volume of the operatory air.



"Airgle air purification systems are without question, the most extraordinary purifiers in the industry. They are the only hospital-grade system, which possess a highly discriminating cHEPA filter, far exceeding the specifications of traditional HEPA, but also incorporating a powerful UV light and hydroxyl radicals radicals, which oxidizes and breaks apart bacteria and viruses."

Dr. Tyler Orehek, DC, M.Sc.

"I personally recommend the Airgle AG600. I'm a dentist with over 20 years of experience. The Airgle is compact, seamless and quiet. You can immediately feel the difference and even my patients notice. I have peace of mind knowing that my practice is using a hospital-grade product, which is effective down to .003 microns."

Sincerely,  
Dr. Tamara Garrett, DDS

"I have been running the Airgle systems in each operatory of my dental practice since we reopened from the COVID-19 closure. The AG600 units are just the right size for my 12'x12' operatories. Even at high speed, they do not distract from talking with patients or assistants. What I like the most are the filtration specs of the Airgle AG600. I like that the Airgle is capable of 99.999% filtration down to .003 microns, which is far smaller than the finest aerosols or even an individual viral particle.

On a side note, my first patient today was a severe allergy sufferer. Unprompted, she stated that she wanted to stay in the dental office because she could breathe so much better after being in the office for an hour because of how clean the air was. Thought you'd like to know."

Dr. Thomas Blake, DDS



"The Airgle AG600 has allowed us to continue practicing dentistry in a safe environment. It has put both the employees and the patients minds at ease. The pass through air design allows us to strategically position and move air away from the providers. The craftsmanship and finish are outstanding. In a tight dental operatory space, everything about the design just makes sense! We would expect them to outperform anything else on the market. In addition to their ultra-fine filtration capabilities, the VOC removal makes the dental office air healthier then we could have ever imagined. I had researched many products on the market but was left feeling uncertain about performance capabilities of competitors products. If it wasn't for Dr. Tyler's commitment towards customer service and education, we would have never gained the knowledge to make an informed decision towards purchasing the very best air purification systems available."

Dr. Huckleby, DMD  
Dr. Aleksic, DDS  
Dr. Goroski, DMD  
Twin Cranes Dental Group

"I feel very confident using the Airgle AG600 units in my dental clinic. After lots of research and COVID-19 webinars, I felt I needed to address the aerosol issues at the source. Having the units in each operatory definitely improves the air quality via rapid air turnover and through the unique oxidizing process generated from the patented UVC-Titanium Dioxide module. Plus, the units have a modern and sophisticated design which look great in any space."

Shannon Allison, DDS, PA  
Allison and Associates





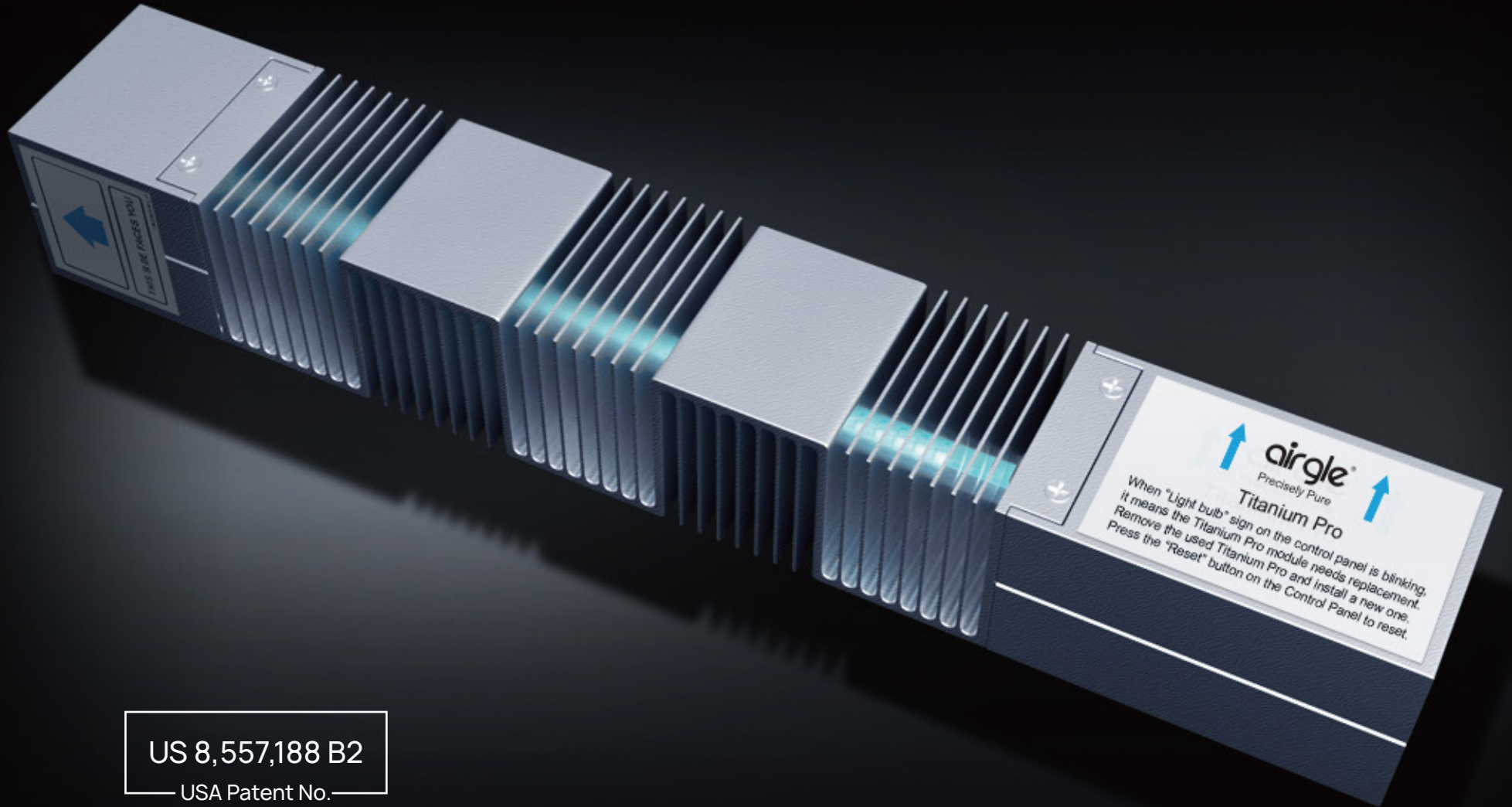
## Microbial mitigation Bacteria and Virus

Titanium Pro® module breaks apart organics, chemicals, bacteria and viruses in the air. This patented photocatalytic oxidation (PCO) technology features a catalytic metal plate, electronics, germicidal UV lamp and ballast in one disposable module designed for easy insertion and removal. The Titanium Pro® safely breaks down harmful chemicals and odors down to 0.1 micron in size, while effectively killing bacterial and viral pollutants.

Third-party testing shows the AG900 achieves a 6-log reduction (99.9999%) in bacteria.

# Titanium Pro<sup>®</sup> UV Module

Effectively destroys chemicals, bacteria, viruses, and TVOCs



US 8,557,188 B2

— USA Patent No. —

# Titanium Pro<sup>®</sup> UV PCO Technology

Years of hard work by the Airgle R&D team led the development of the state-of-the-art Titanium Pro<sup>®</sup> UV photocatalytic oxidation (PCO) module. The substrate surface of the nano-titanium dioxide carrier is coated with TiO<sub>2</sub>, a stable and harmless substance widely used in American food additives and cosmetics. Under UV irradiation, TiO<sub>2</sub> emits strong oxidizing hydroxyl radicals.

In health-care settings, Titanium Pro<sup>®</sup> provides added protection from harmful pathogens and unpleasant odors. The hydroxyl radicals and superoxide ions oxidize airborne organic pollutants, breaking them into simple molecules such as carbon dioxide and water. They destroy living spores, bacteria, molds and viruses. They also break down VOCs, chemical gases and unpleasant odors in the air.

💡 14 watt UVC Lamp

🔌 Plug and play technology

⏱ Very efficient at room temperature

🧪 No chemical additives

🌍 No residual ozone

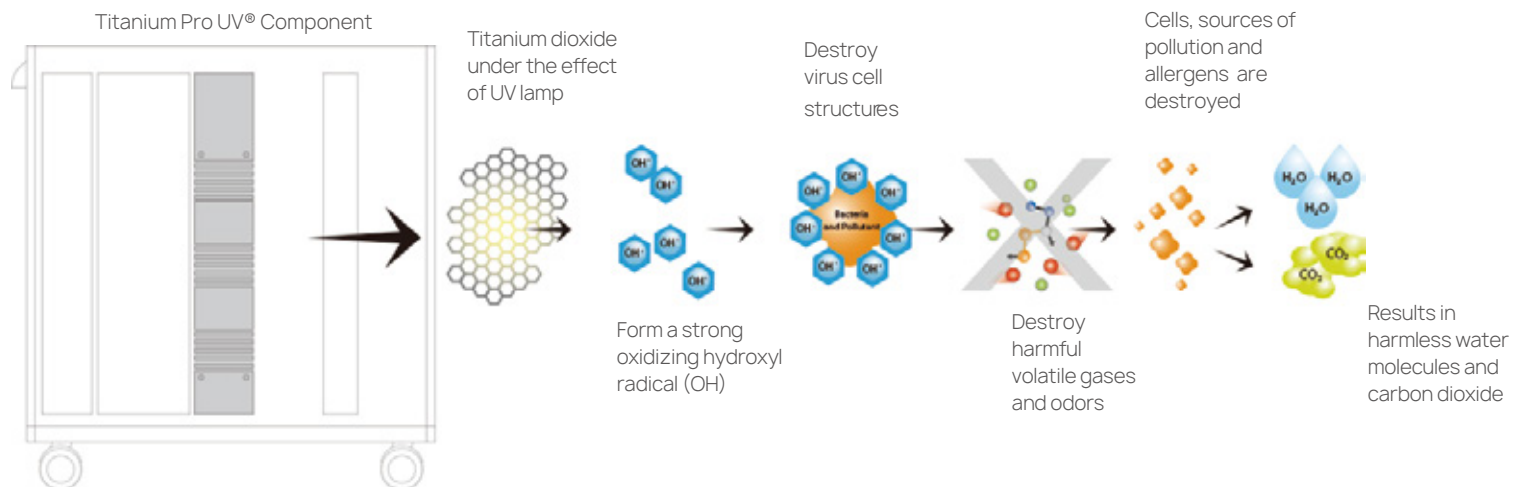
🧪 High oxidation yields for odors and VOCs

⚡ Low energy requirements

☂ Works in humid conditions

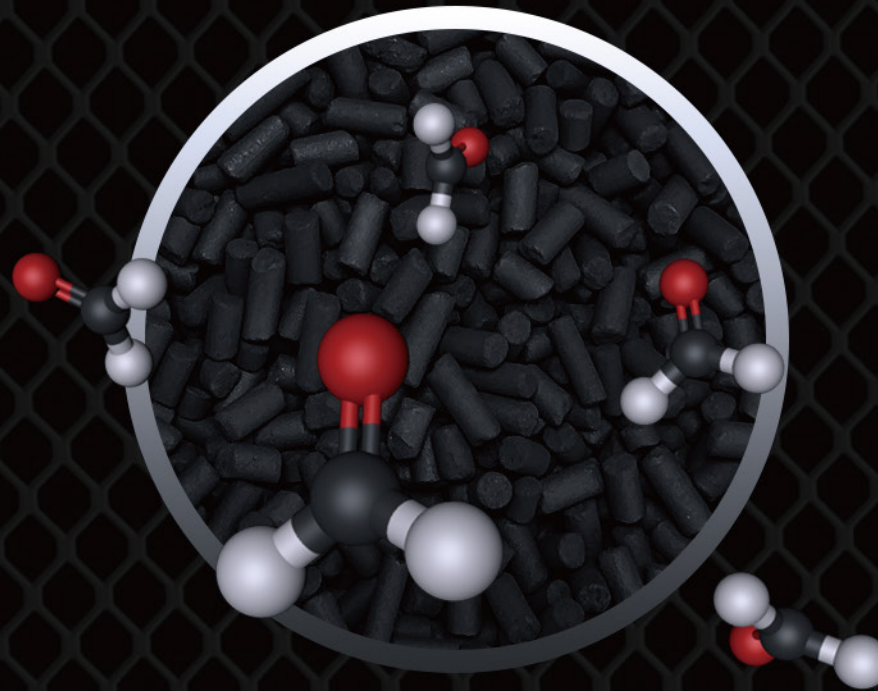
👍 Long service life

🔧 Low maintenance requirement

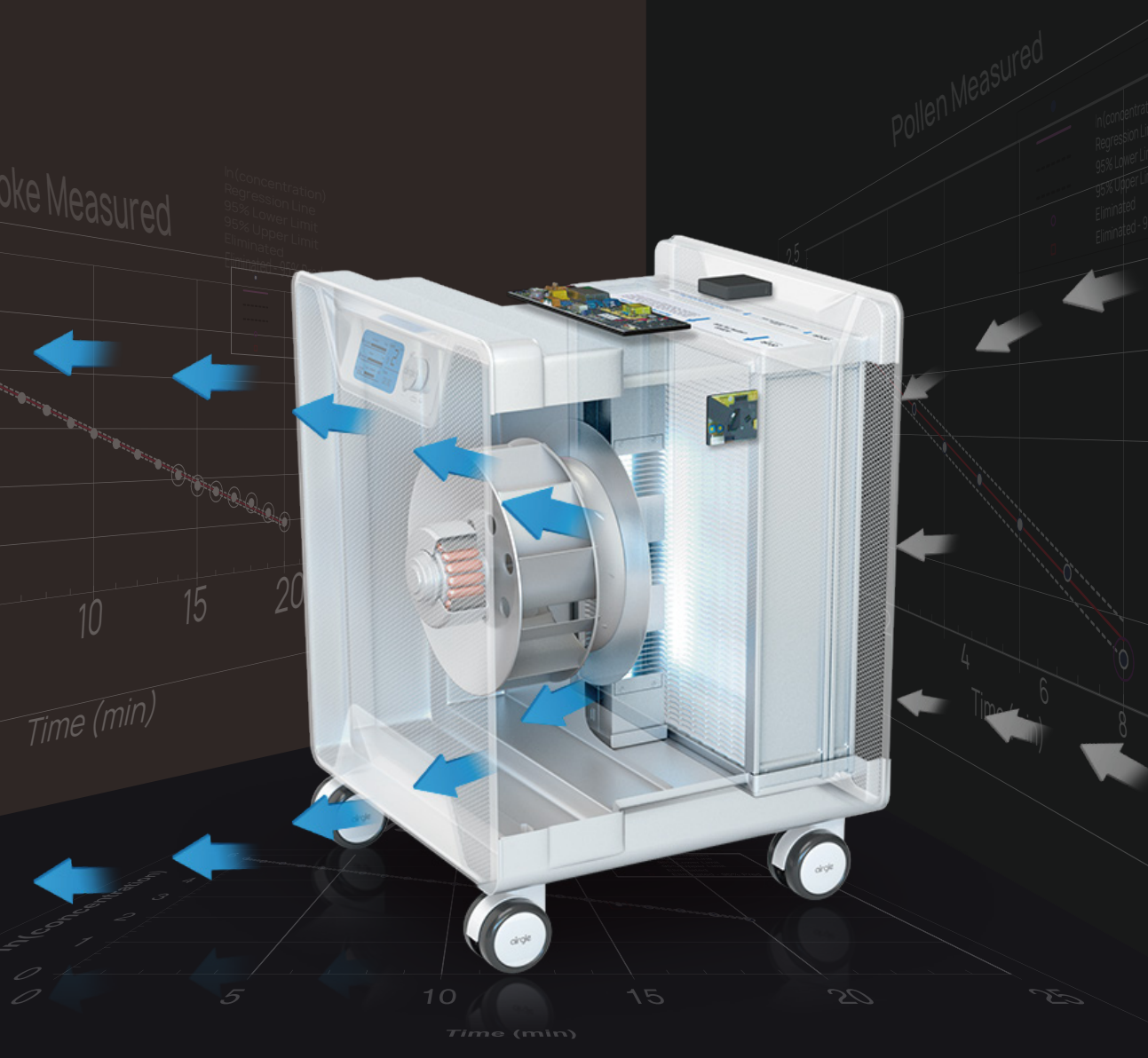


# Chemical/Odor Filtration

Chemicals used for surface sterilization release VOCs into the air. The AG900 features 4.4 lbs. of activated carbon to capture chemicals, tobacco smoke, odors, and volatile organic compounds (VOCs). Coconut shells produce extremely high surface area when turned into activated carbon. This allows a higher capacity per pound to capture VOCs and other pollutants than other types of activated carbon. In addition, coconut shells are a completely renewable resource.



# Powerful and Practical



## Key Features:

- Ultra-quiet motor technology
- Aluminum housing
- Easy-to-replace Filters
- Handy remote control
- Ozone-free technology
- Energy Star qualified
- Programmable LCD control panel
- Auto & night modes
- Variable timer
- System control setting
- Continuous air quality monitoring
- Plug and play technology
- FDA-cleared as a Class II Medical Device

# The Art of Air Purification



## About Airgle:

In 1999 in New York, we began our mission to design and manufacture the safest, most reliable, and most effective air purification systems on the market. Our dedication to purifying Air with a Great Level of Efficiency has made us a world class provider of air purification. Internationally Airgle Holdings includes businesses in United States, United Kingdom, Canada, Germany, Austria, Denmark, Switzerland, Japan, South Korea, India, Singapore, Thailand, Vietnam, Saudi Arabia, United Arab Emirates, Qatar, Kuwait, Russia, China (the Mainland, Hong Kong and Macao) and Others.

airgle®

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