



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

# Airgle Clean Room Air Purifier

For  
Healthcare Applications



# Purified Air for Healthcare Settings

Sanitizing surfaces is necessary but not sufficient in the fight to halt the spread of HAIs and infectious diseases such as COVID 19. Viruses and bacteria that are airborne, or can become airborne – for example when bedding is changed – need to be removed from the air to limit cross-infection.

Proper air purification to remove viruses and bacteria from the air can reduce cross-infection and HAIs. Studies have shown that non-biologic micro and nanoparticles in the air increase the likelihood of a patient developing pneumonia, therefore, for best patient outcomes, particulate matter should also be removed from the air.

In addition to potentially impacting patient morbidity rates, exposure to viral, bacterial and other contaminants, such as VOCs in the air can have significantly negative impact on hospital employees. Doing everything possible to provide purified air can help reduce employee health concerns.







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



# AG600/900

## Air Purification Designed for Hospitals

The Airgle AG600 and AG900 are air purifiers specifically engineered to help with airborne infection control at hospitals, clinics, dental practices, and other health care facilities.

The AG900 has 6lbs of activated carbon to remove odors and VOCs and the AG600 has 3.5lbs. The cHEPA filter removes particles including nanoparticles as small as 3nm (0.003 $\mu$ m) with a 99.999% efficiency<sup>1</sup>. Nanoparticles, such as viruses, which can pass through ordinary filters and may remain airborne almost indefinitely, are captured by our cHEPA filter. Finally, the patented Titanium Pro<sup>®</sup> photocatalytic oxidation (PCO) module generates hydroxyl radicals to destroy harmful organics<sup>2</sup>.

The Airgle AG600 and AG900 are remarkably quiet and are easy to move around on their integrated casters. They are perfect for treatment rooms and for waiting rooms where airborne cross-infection is a concern.

Medical-Grade Air Purification Technology for use in critical areas to remove

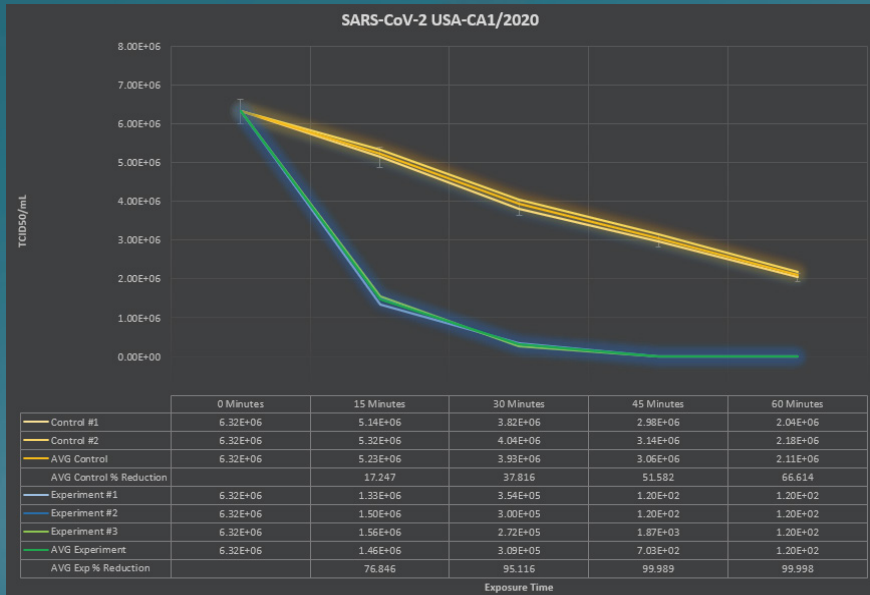
- Particles
- Viruses, Bacteria, Microbes
- Chemicals

1) Third party permeability testing.

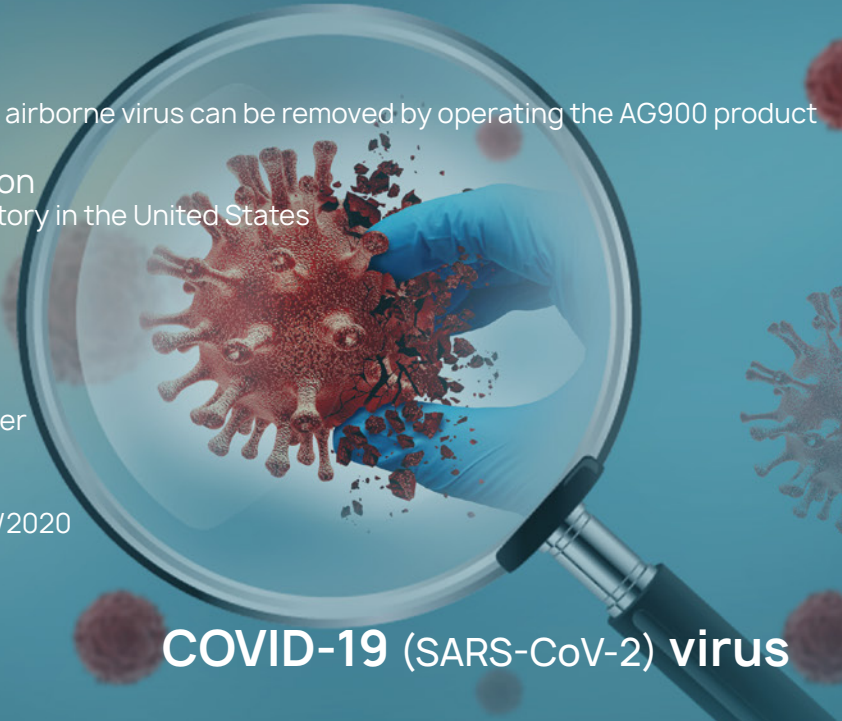
2) Thousands of research papers detail the ability of hydroxyl radicals to inactivate or destroy viruses, bacteria, VOCs and other organic materials in the air and on surfaces.

# 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.



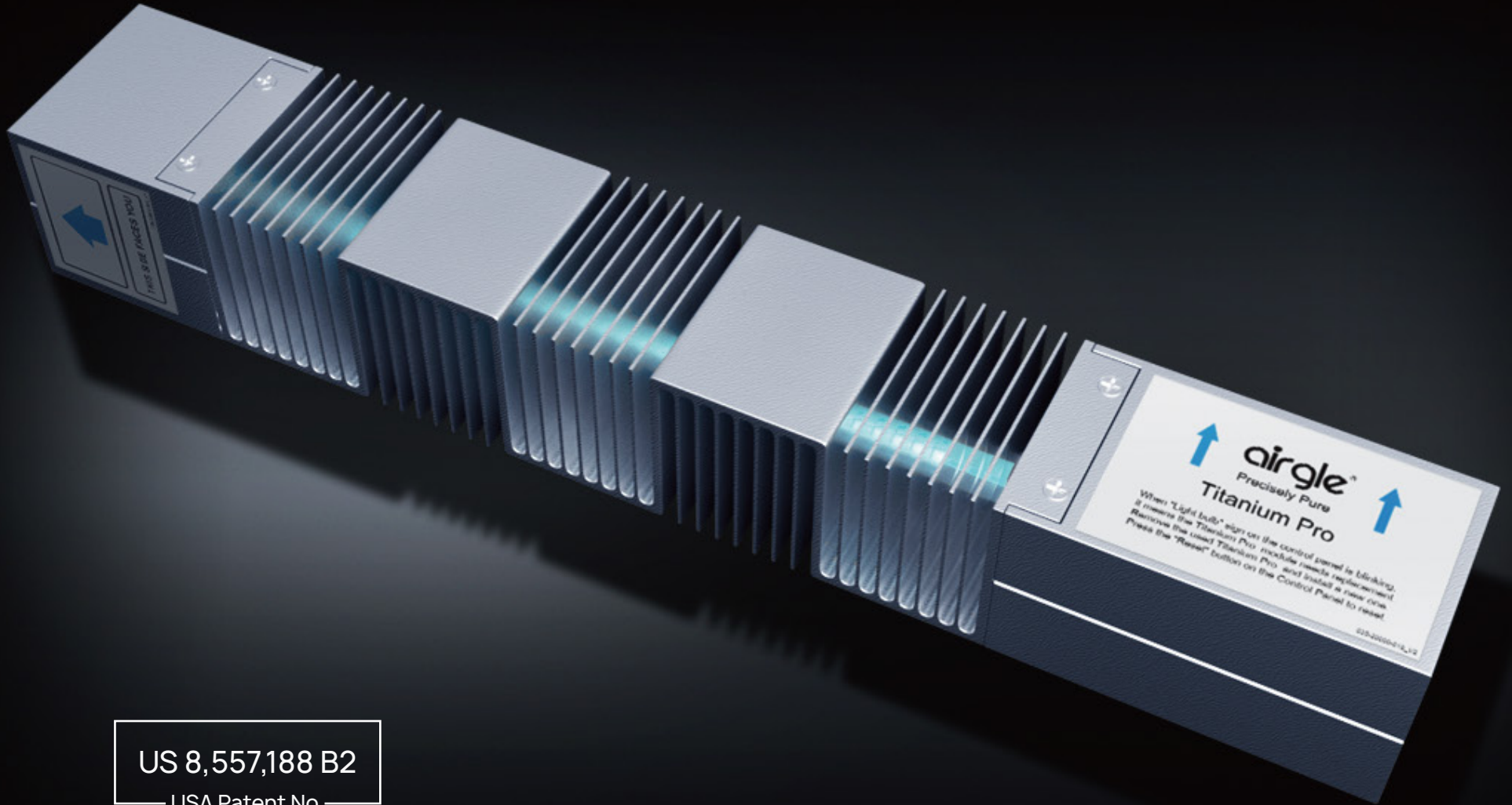
## Microbial mitigation Bacteria and Virus

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 show the AG900 and the AG600 achieve a 6-log reduction (99.9999%) in bacteria.

# Titanium Pro® UV Module

Effectively destroys chemicals, bacteria, viruses, and TVOCs



US 8,557,188 B2

— USA Patent No. —

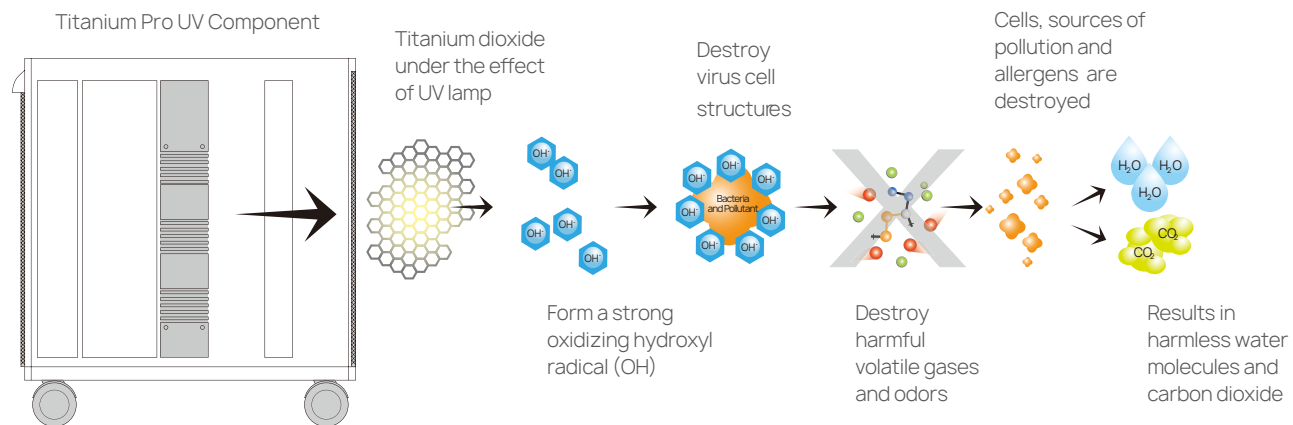


# Titanium Pro<sup>®</sup> UV PCO Technology

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  $\text{TiO}_2$ , a stable and harmless substance widely used in American food additives and cosmetics. Under UV irradiation,  $\text{TiO}_2$  emits strong oxidizing hydroxyl radicals.

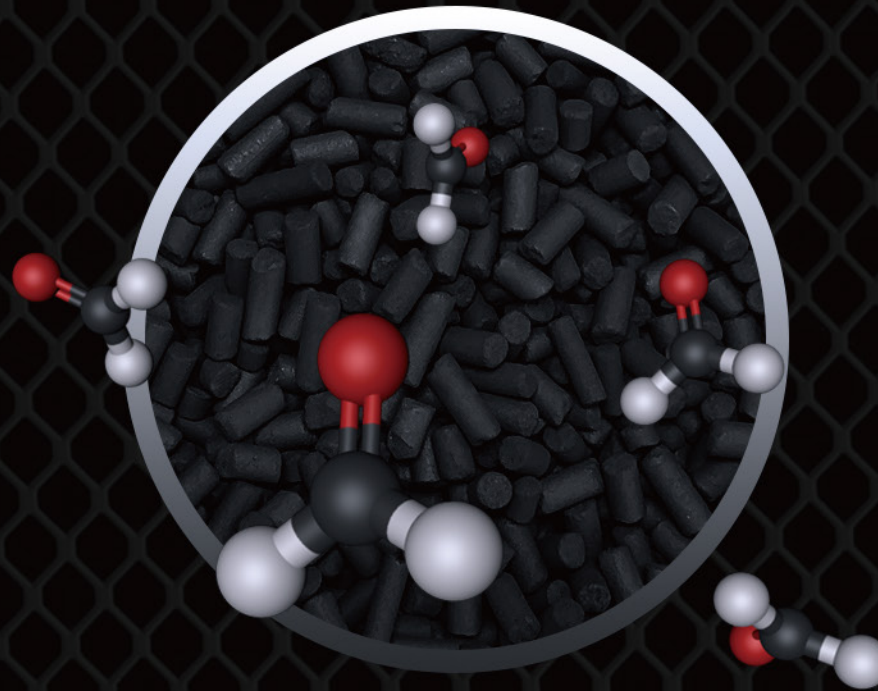
In health-care settings, Titanium Pro<sup>®</sup> provides added protection from harmful pathogens and unpleasant odors. The hydroxyl radicals and superoxide ions oxidize airborne organic pollutants, breaking them into simple molecules such as carbon dioxide and water. They destroy living spores, bacteria,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

- 💡 10-14 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



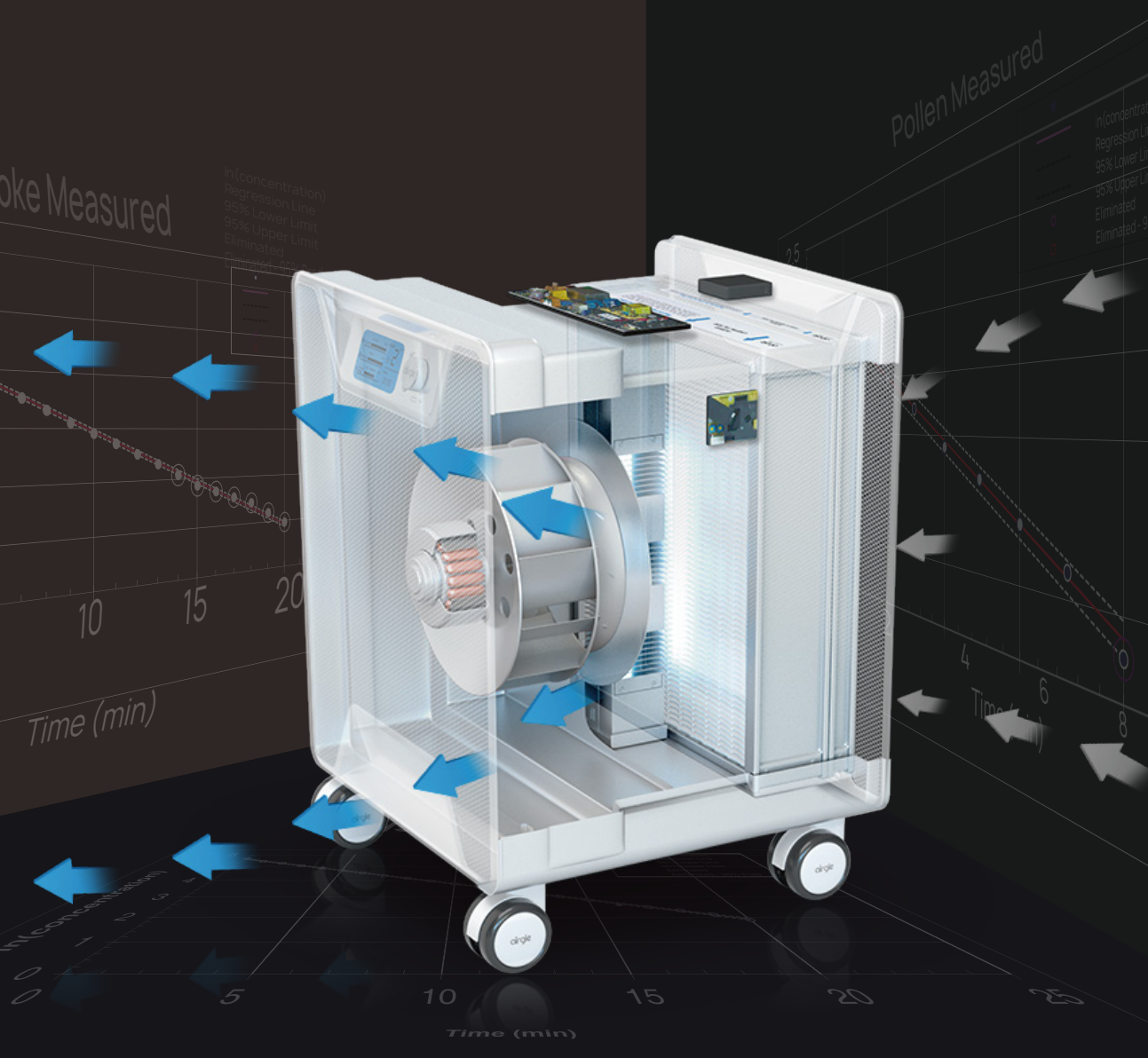
# Chemical/Odor Filtration

Chemicals used for surface sterilization release VOCs into the air. The AG900 features 6 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

# Maximum Air Flow and Fast Purification

The National Institutes of Health have said that COVID-19 laden droplets from coughs and sneezes can stay in the air for 3 hours or more. VOCs remain airborne indefinitely and many other airborne pathogens have very slow precipitation rates and can remain in the air for many hours or even days. The less time a pathogen remains in the air, the lower the chance of cross-infection. That is why Airgle recommends a minimum of 5 Air Changes per Hour (ACH)<sup>3</sup>. The AG900 provides 5 ACH for a 617 sq. ft. room – that is one ACH every 12 minutes. Used in a 20' x 20' room, the AG900 provides one ACH every 8 minutes.

3) Each time the entire volume of air in a room is purified is called an Air Change per Hour (ACH).





# Technological Design

Featuring an inlet seal design and aluminum housing, the Airgle Air Purifier's technological aesthetic embodies a North American standard of excellence. Each component of the product's performance and durability complies with the UL507 Safety Certification as well as the California State Government and AHAM Standards.



Machine Sealed



Ultra-Quiet Motor



Infrared Remote Control



Triple Filtration



Aluminum Housing



360 Degree Casters

# The smart control technology in the Airgle APP enables administrators to remotely monitor and control all the Airgle units in the hospital.

Features include:

- Admin access to remotely manage hundreds of devices
- Real time monitoring of air quality
- Remote regulation of speed operation
- Advanced timer setup, creation of unique time/date templates for all/some wards
- Filter replacement reminders



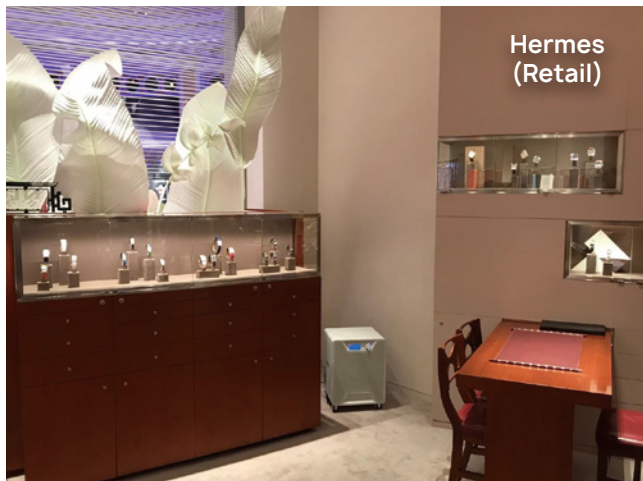


# Aluminum Frame Filters meet CDC Recommendations

Airgle filters are framed in aluminum which meet CDC recommendations for filters because metal frames can provide greater protection against bacteria and mold than paper, wood or Styrofoam.

Airgle's aluminum filter frames are rigid so changes in temperature and humidity won't cause them to change shape or degrade. That is a key component to maintaining the 100% seal that ensures all the air passing through the Airgle Clean Room Air Purifier passes through the filters, rather than leaking through without filtration.





Hermes  
(Retail)



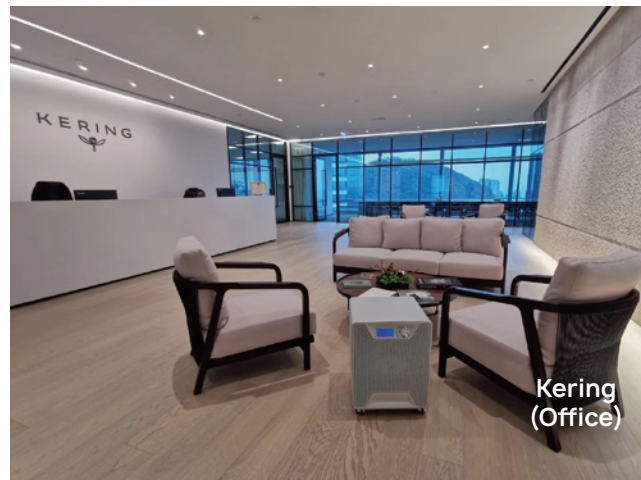
H&M  
(Retail)



Pfizer  
(Retail)

## Global Organizations Trust Airgle

Companies around the world have turned to Airgle to let their staff and their guests know that they care about the air. Especially now, it is important for the peace of mind of all the people who gather in your establishment to know that you are doing your best to keep the air they breath safe and healthful.



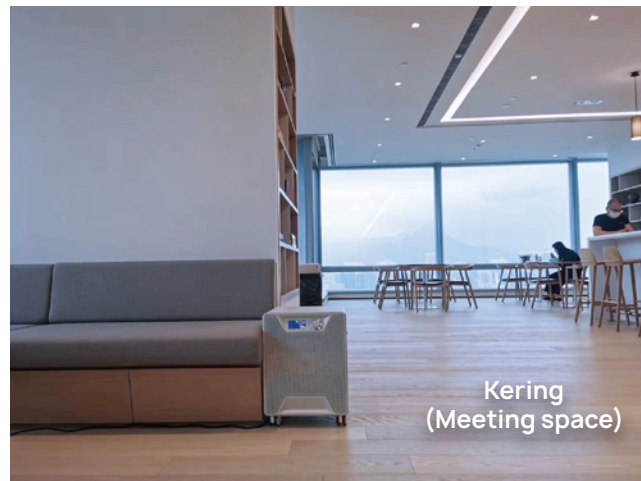
Kering  
(Office)



Philip Morris  
(Office)



NYC Department of  
Education  
(Meeting space)



Kering  
(Meeting space)





unicef  | airgle

**Airgle Has Been Awarded A Long Term Arrangement (LTA)  
For Air Purifiers By United Nations Children's Fund (UNICEF)**

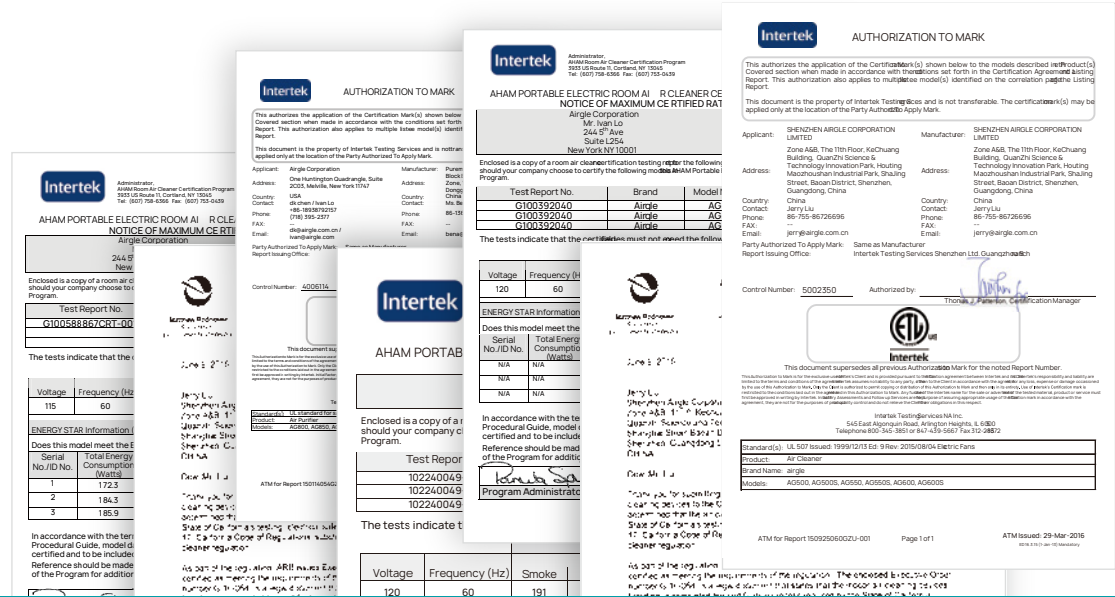
UNICEF Works in over 190 countries and territories to protect the rights of every child

# Certification

Association of Home Appliance Manufacturers



**Independently Tested.  
Consumer Trusted.**



**Intertek AUTHORIZATION TO MARK**

**AHAM PORTABLE ELECTRIC ROOM AIR CLEANER CERTIFIED RAT**

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**Independently Tested.  
Consumer Trusted.**

Dehumidifiers Room Air Cleaners Room Air Conditioners

www.AHAMVerifide.org

Search Room Air Cleaners

Brand Name: Airgle

Dust CADR: Equals

Pollen CADR: Equals

Tobacco Smoke CADR: Equals

Volts/Frequency: English

Room Size (Sq Ft): Calculate Rm Size

ENERGY STAR®: Only show ENERGY STAR®

View Listing By: Brand Name Room Size

Search Room Air Cleaners:

Compare

Expand All Collapse All

Airgle	Brand	Model Number	Room Size (sq. ft)	Dust	Pollen	Tobacco Smoke	ENERGY STAR®
<input type="checkbox"/>	Airgle	AG600	296	197	191	191	Yes
<input type="checkbox"/>	Airgle	AG600S	296	197	191	191	Yes
<input type="checkbox"/>	Airgle	AG550	304	235	224	196	Yes
<input type="checkbox"/>	Airgle	AG500	369	253	239	238	Yes
<input type="checkbox"/>	Airgle	AG500S	369	253	239	238	Yes
<input type="checkbox"/>	Airgle	PurePal AG900	617	400	379	398	Yes
<input type="checkbox"/>	Airgle	PurePal AG800	698	> 400	> 450	> 450	Yes



Meets California ozone emissions limit: CARB certified.





## Technical Information

Specifications	Airgle AG900	Airgle AG600
Maximum Clean air delivery	400cfm	219cfm
Clean Air Delivery Rate (CADR)	Smoke: 398 cfm Dust: 400 cfm Pollen: 379 cfm	Smoke: 191cfm Dust: 197cfm Pollen: 191 cfm
Clean Air delivery for all five fan speeds (in cfm)	Speed 1=108cfm, Speed 2=148cfm, Speed 3=186cfm, Speed 4=231cfm, Speed 5 (Turbo)=400cfm	Speed 1=42cfm, Speed 2=81cfm, Speed 3=128cfm, Speed 4=182cfm, Speed 5 (Turbo)=219cfm
Noise level	Speed 1: 33 dB(A), Speed 2: 45 dB(A), Speed 3: 50 dB(A), Speed 4: 59 dB(A), Speed 5 (Turbo): 68 dB(A)	Speed 1: 33 dB(A), Speed 2: 45 dB(A), Speed 3: 50 dB(A), Speed 4: 58 dB(A), Speed 5 (Turbo): 65 dB(A)
Air cleaner dimensions (HxWxD)	25 x 17.7 x 18.1 in.	15 x 15.6 x 20.2 in.
Air cleaner weight (incl. filters)	56.5 (lbs.)	35.3 (lbs.)
Power requirements	100-240V 50Hz - 60Hz	
Maximum energy consumption	120W	55W
Rated power	Stand by=0.4W, Speed 1=42W, Speed 2=55W, Speed 3=68W, Speed 4=80W, Speed 5 (Turbo)=120W	Stand by=1.5W, Speed 1=17.5W, Speed 2=21.7W, Speed 3=28.9W, Speed 4=39W, Speed 5 (Turbo)=55.8W
ENERGY STAR (Dust CADR/Watt)	3.0	3.5
Room size (ft <sup>2</sup> )	617 ft <sup>2</sup>	296 ft <sup>2</sup>
Fan motor	BLDC Motor	
Control panel	Speed control knob, buttons and indicators	
Air intake	Rear	
Air outlet	Front	
Housing material	Aluminum with sandblast effect	

## Performance

Performance certification	AHAM, EnergyStar and other International Testing Agency	
Certified filtration efficiency	Greater than 99.999% for particles $\geq$ 0.003 microns ( $\mu\text{m}$ )	
Titanium Pro UV	Yes	
Bacteria	99.9999%	99.9999%

Ozone	Zero Ozone	
Certified air delivery	10% (+ or - 10 cfm) of specified air delivery	
T.V.O.C Test	99%	99%
Leak tested	Yes	

### Filter Configuration

Pre-filter	One layer of pre-filter: metal grill capturing large particles	
cHEPA	cHEPA, 2.0 Inch depth, Medical-grade, PP material, Surface area: 40 sq. ft. MPPS efficiency: 99.999% @ 0.003µm	cHEPA, 2.0 Inch depth, Medical-grade, PP material, Surface area: 26 sq. ft. MPPS efficiency: 99.999% @ 0.003µm
cHEPA dimensions (LxWxD)	19.1 x 15.9 x 2.0 in.	16.14x 13.58x 1.97 in
Carbon media	6 lbs. of enhanced carbon blend	3.5 lbs. of enhanced carbons blend
Carbon Filter dimensions (LxWxH)	19.1 x 15.9 x 3.1 in.	16.14 x 13.58x 1.97 in.
Tio <sub>2</sub> UV light	US Patented Plug and Play Technology -14W	US Patented Plug and Play Technology -10W
Average filter life	12 months	12 months
cHEPA & Carbon Filter weight (net weight)	13.7 (lb.)	8.6 (lb.)
cHEPA & Carbon Filter weight (Gross weight)	19.1 (lb.)	12.8 (lb.)
cHEPA & Carbon Filter dimensions (LxWxH) (With packing)	20.5 x 17.64 x 7.44 in.	17.6 x 15.3x 6.3 in.

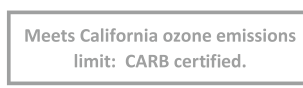
### Control Panel Features

Intelligent filter life monitor	Yes
Timer	1-12H
Speeds	LCD 1, 2, 3, 4, 5 (Turbo)
Auto mode	Sensor checks pollution level and automatically adjusts fan speed for best performance
Sleep mode	Close backlight\ LED display\ LCD display
APP Control	iOS and android

APP Features	<ul style="list-style-type: none"> <li>● Smart Control Cloud Computing Technology with the APP</li> <li>● Real time monitor air quality and regulate speed and more on APP</li> <li>● Admin access, easily manage up to thousands of devices</li> <li>● Build a database of customers and offer repeat sales. Filter replacement reminders</li> <li>● Easily manage your rental customers</li> <li>● Advanced Timer setup, unique time/date templates for all/some managed customers</li> </ul>
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### Accessories

Standard accessories	Remote control (battery included) (1), Casters (4), Owner's Instruction (1)	
Name	Airgle Clean Room Air Cleaner	Airgle Room Air Cleaner AG600
UPC Code	AG900: 799975978253	AG600: 713382679091
	AF900HC: 713382679015	AF600HC: 601279631324
	AF900T: 799975978284	AF600T : 713382679213





# 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.

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