

## 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.









## 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% efficiency¹. 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® photocatalytic oxidation (PCO) module generates hydroxyl radicals to destroy harmful organics².

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)



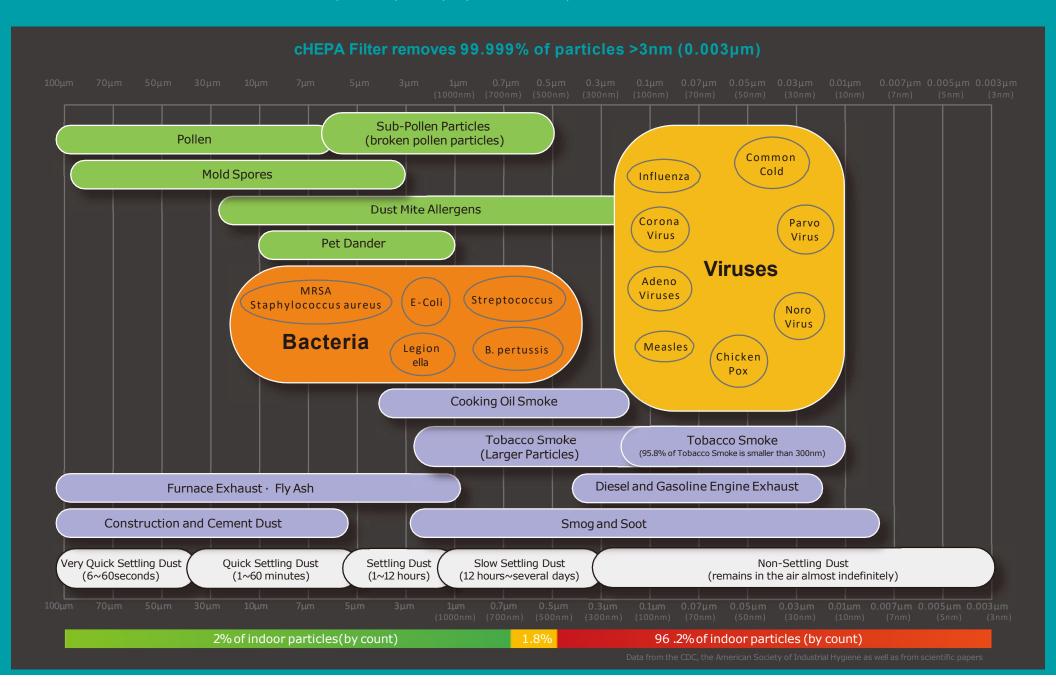
#### **Test Results**

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.

#### Particle Filtration - Airgle cHEPA Filter

Airgle cHEPA filter features medical-grade, clean room level purification with an efficiency of over 99. 999%. The cHEPA removes pollutants as small as 0.003 microns. It powerfully and rapidly removes dust, pollen, tobacco smoke, bacteria, viruses and more.

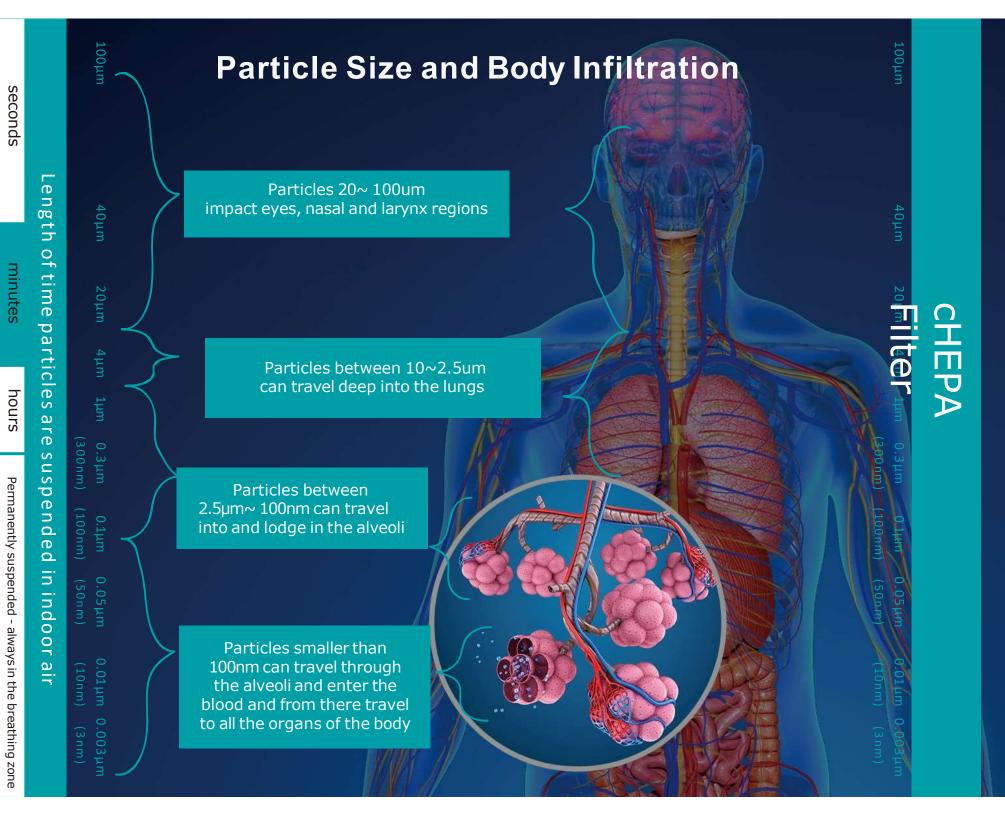


#### Airgle cHEPA Filter - MERV 19

Airgle cHEPA filter features medical-grade, clean room level purification with an efficiency of over 99. 999%. The cHEPA removes pollutants as small as 0.003 microns. It powerfully and rapidly removes dust, pollen, tobacco smoke, bacteria, viruses and more.

#### cHEPA Filter removes 99.999% of particles >3nm (0.003µm

MERV Rating	Air Filter will trap Air Particles size .03 to 1.0 microns	Filter Type ~ Removes These Particles	
MERV 1	<20%		
MERV 2	<20%	Fiberglass & Aluminum Mesh	
MERV 3	<20%	Pollen, Dust Mites, Spray Paint, Carpet Fibers	
MERV 4	<20%	, , , , , , , , , , , , , , , , , , ,	
MERV 5	<20%	Okasar Bisar a Li Elli	
MERV 6	<20%	Cheap Disposable Filters	
MERV 7	<20%	Mold Spores, Cooking Dusts, Hair Spray, Furniture Polish	
MERV 8	<20%		
MERV 9	<20%		
MERV 10	<20%	Better Home Box Filters	
MERV 11	<20%	Lead Dust, Flour, Auto Fumes,Welding Fumes	
MERV 12	<20%	3	
MERV 13	Less than 75%		
MERV 14	75%~84%	Superior Commercial Filters	
MERV 15	85%~94%	Bacteria, Smoke, Sneezes	
MERV 16	95% or Better	Daotoria, Griove, Griove	
MERV 17	99.97%		
MERV 18	99.997%	HEPA & ULPA	
MERV 19	99.9997%	Airgle cHEPA Viruses, Carbon Dust, >0.3 μm	
MERV 20	99.99997%	Viidoco, Garbon Bast, 20.0 μm	



Data from American Society of Industrial Hygiene as well as from scientific papers

Includes 98% of the germs that cause diseases



# 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.



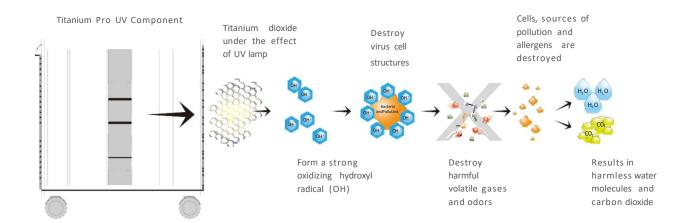
### Titanium Pro® UV PCO Technology

Years of hard work by the Airgle R&D team led the development of the state-of-the-art Titanium Pro® UV photocatalytic oxidization (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>3</sub> emits strong oxidizing hydroxyl radicals.

In health-care settings, Titanium Pro\* provides added protection from harmful pathogens and unpleasant odors. The hydroxy| 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.

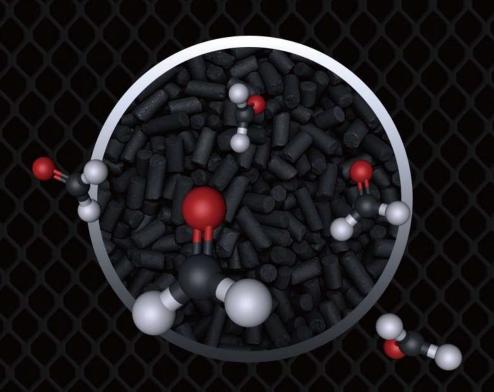
- 7 14 watt UVC Lamp
- Plug and play technology
- Very efficient at room temperature
- No chemical additives
- No residual ozone

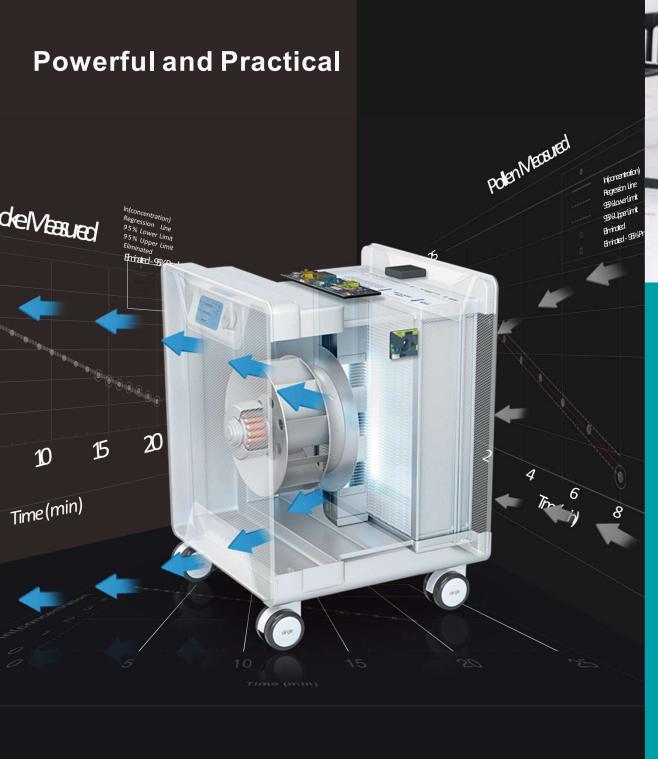
- i High oxidation yields for odors and VOCs
- Low energy requirements
- Works in humid conditions
- Long service life
- **Low maintenance requirement**



## Chemical/Odor Filtration

Chemicals used for surface sterilization release VOCs into the air. The AG900 features 6 lbs. of activated carbon to captures 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.







#### **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.















# 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.



## Hospitals use Airgle Hospitals and health systems in America at the forefront of the COVID-19 outbreak



#### Virtua:

14,000 employees provide safe, high-quality, tertiary care, including a nationally recognized cardiovascular program, complemented by community-based care programs.

#### **Grady:**

The largest hospital in the state of Georgia and the public hospital for the entire city of Atlanta. And the 5th largest public hospital in the United States, as well as one of the busiest Level I trauma centers in the country.

#### **Marshall Hospital:**

Marshall Medical Center is a nonprofit community healthcare provider located in the heart of the Sierra Foothills. Since opening our doors in 1959, Marshall has been proud to maintain our status as an independent hospital whose governance remains local.

#### **Wagner Indian Health System:**

Yankton Medical Clinic, P.C. is a multi-specialty clinic with 43 physicians covering 17 specialties, more than 220 employees, 4 clinic locations and 15 outreach locations in Nebraska and South Dakota.

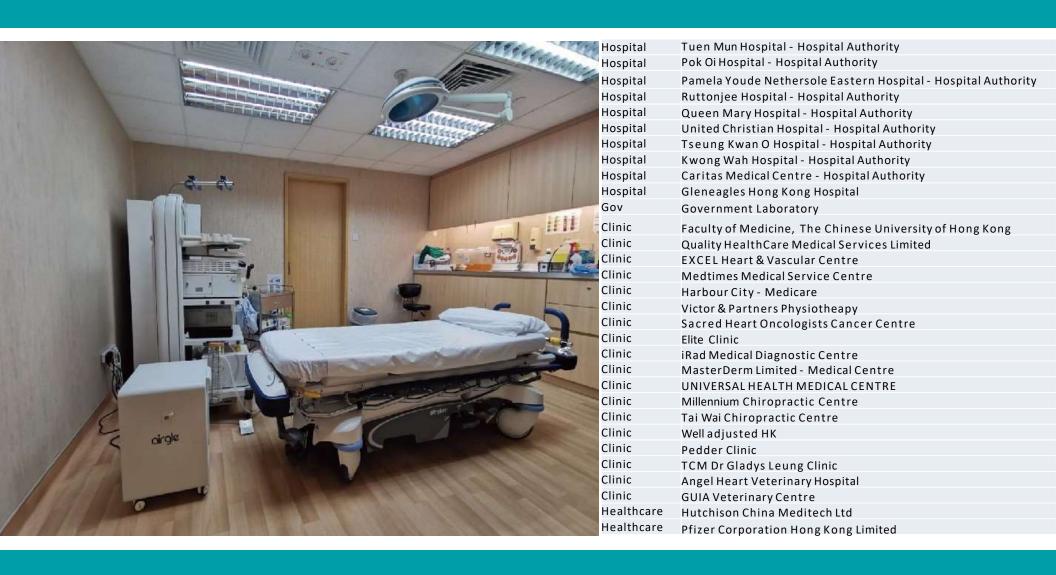
#### Winnebago Comprehensive Healthcare System

Primary care clinics acts as principal point of healthcare services to patients of all ages - evaluation and treatment is usually provided by general practitioners and family medicine doctors.

#### **12 Clans Unity Hospital:**

A full-service state of the art facility, providing inpatient, outpatient and emergency care to the Winnebago community and Native American patients within the region.

## Hospitals use Airgle Hong Kong hospitals at the forefront of the COVID-19 outbreak



## Hospitals use Airgle Hospitals the Middle East at the forefront of the COVID-19 outbreak











uwait	MOH - Sabah Hospital	
uwait	MOH - Mubarak Hospital	
uwait	MOH-Farwaniya Hospital	
uwait	MOH - Adan Hospital	
uwait	MOH - Amiri Hospital	
uwait	MOH - Kuwait Cancer Center	
(atar	Hamad Al Khor Hospital	
JAE	Minister of Health	
JAE	Umm-Al Quwain Hospital	
JAE	Abdullah Bin Omran Hospital	
JAE	Khorfakan Hospital	
JAE	Shaam Hospital	
JAE	Clevland Hospital	
JAE	Tawam Hospital	

#### Saudi Arabia Medical





MINISTRY OF HEALTH	MOH IBRAHIM BIN HAMAD OBAIDULLAH (SAIF) HOSPITAL
MINISTRY OF HEALTH	MOH UMM AL QUWAIN HOSPITAL
MINISTRY OF HEALTH	MOH ABDULLAH BIN OMRAN HOSPITAL
MINISTRY OF HEALTH	MOH MUSHAIRIF HEALTH CENTER
MINISTRY OF HEALTH	MOH AL HAMIDIA HEALTH CENTRE
MINISTRY OF HEALTH	MOH AL KHAZAN HEALTH CENTER
MINISTRY OF HEALTH	MOH AL MADINA HEALTH CENTER
MINISTRY OF HEALTH	MOH AL QURRAYAH HEALTH CENTER
MINISTRY OF HEALTH	MOH MURBAH HEALTH CENTRE
MINISTRY OF HEALTH	MOH AL QIDFAH HEALTH CENTER
MINISTRY OF HEALTH	MOH ALJEER HEALTH CENTER
MINISTRY OF HEALTH	MOH JULPHAR MEDICAL CENTRE RAK
MINISTRY OF HEALTH	MOH AL RAMS HEALTH CENTRE
MINISTRY OF HEALTH	MOH AL HALA MEDICAL CENTRE
MINISTRY OF HEALTH	MOH AL KHULAIBIYA HEALTH CENTRE
MINISTRY OF HEALTH	MOH ALTAWYEEN HEALTH CENTER
MINISTRY OF HEALTH	MOH AL KADRA HEALTH CENTER
MINISTRY OF HEALTH	MOH AL SHAWKA HEALTH CENTER
MINISTRY OF HEALTH	MOH AL MANAI HEALTH CENTER
MINISTRY OF HEALTH	MOH WADI ASFENI HEALTH CENTER
MINISTRY OF HEALTH	MOH AL MUZAIARAH HEALTH CENTER
MINISTRY OF HEALTH	MOH FALAJ AL MULLA HEALTH CENTRE
MINISTRY OF HEALTH	MOH AL MANAMA HEALTH CENTER
MINISTRY OF HEALTH	MOH AL MAEREED HEALTH CENTER
MINISTRY OF HEALTH	MOH DIBBA AL HASAN HEALTH CENTRE
MINISTRY OF HEALTH	MOH ALJAZIRAH HEALTH CENTER
MINISTRY OF HEALTH	MOH AL DHAIT HEALTH CENTER
MINISTRY OF HEALTH	MOH AL DIGDAGGA HEALTH CENTER
MINISTRY OF HEALTH	MOH KHATT HEALTH CENTER
MINISTRY OF HEALTH	MOH SAIF BIN ALI HEALTH CENTER
MINISTRY OF HEALTH	MOH AL LULUEYAH HEALTH CENTER
MINISTRY OF HEALTH	MOH SHAMAL HEALTH CENTRE
MINISTRY OF HEALTH	MOH RAK PHC
MINISTRY OF HEALTH	MOH AL BIDYA HC
MINISTRY OF HEALTH	MOH AL DADNA HC
MINISTRY OF HEALTH	MOH FAMILY PROMOTION HC
MINISTRY OF HEALTH	MOH MURSHID HC
MINISTRY OF HEALTH	MOH KHORFAKKAN SPECIALIZED DENTAL CENRE
MINISTRY OF HEALTH	MOH HAMRIYA HEALTH CENTER







الإمارات العربية التحدة وزارة الصححة و وقساية المجتمع















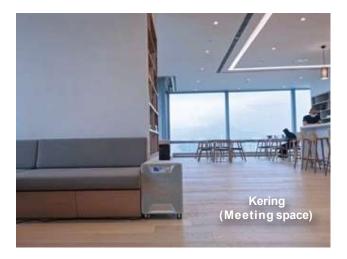
#### **Global Organizations Trust Airgle**

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.







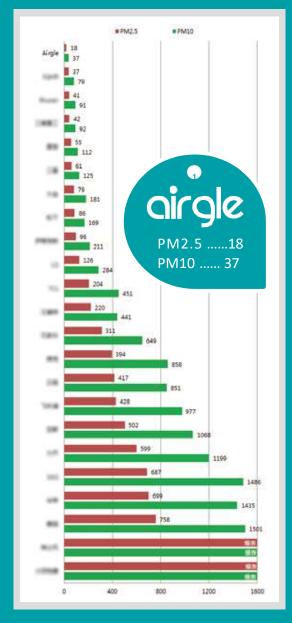




# unicef airgle

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



#### **Third Party Testing**





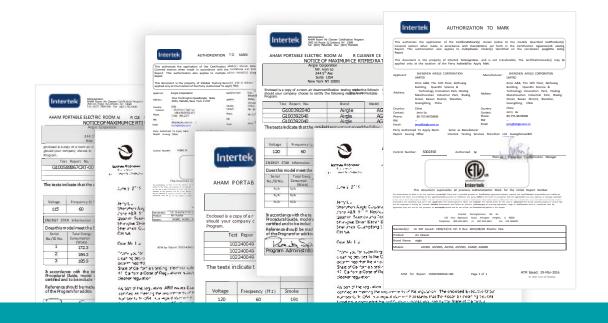
- 1 Third party testing of particle 2.5 and 10 microns removal rate by ZOL.com.cn for 23 leading brands of air purifiers (unit: UG/M³, the small residue, the better result)
- 2 Third party testing of smoke particle removal rate by ZOL.com.cn for 23 leading brands of air purifiers (unit: seconds, the less time used to remove, the better result)
- 3 Third party testing of applicable area by ZOL.com.cn for 23 leading brands of air purifiers (unit: m² the large area, the better result)



#### Certification

Association of Home Appliance Manufacturers



















Room Size



Technical Information				
Specifications	Airgle AG900	Airgle AG600		
Maximum Clean air delivery	400cfm	219cfm		
	Smoke: 398 cfm	Smoke: 191cfm		
Clean Air Delivery Rate (CADR)	Dust: 400 cfm	Dust: 197cfm		
	Pollen: 379 cfm	Pollen: 191 cfm		
	Speed 1=108cfm,	Speed 1=42cfm,		
	Speed 2=148cfm,	Speed 2=81cfm,		
Clean Air delivery for all five fan speeds (in cfm)	Speed 3=186cfm,	Speed 3=128cfm,		
	Speed 4=231cfm,	Speed 4=182cfm,		
	Speed 5 (Turbo)=400cfm	Speed 5 (Turbo)=219cfm		
	Speed 1: 33 dB(A),	Speed 1: 33 dB(A),		
	Speed 2: 45 dB(A),	Speed 2: 45 dB(A),		
Noise level	Speed 3: 50 dB(A),	Speed 3: 50 dB(A),		
	Speed 4: 59 dB(A),	Speed 4: 58 dB(A),		
	Speed 5 (Turbo): 68 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-	100-240V 50Hz - 60Hz		
Maximum energy consumption	135W	55W		
	Stand by=0.4W,	Stand by=1.5W,		
	Speed 1=42W,	Speed 1=17.5W,		
	Speed 2=55W,	Speed 2=21.7W,		
Rated power	Speed 3=68W,	Speed 3=28.9W,		
•	Speed 4=80W,	Speed 4=39W,		
	Speed 5 (Turbo)=135W	Speed 5 (Turbo)=55.8W		
ENERGY STAR (Dust CADR/Watt)	3.0	3.5		
Room size (ft²)	617 ft <sup>2</sup>	296 ft²		
Fan motor		BLDC Motor		
Control panel	Speed control	Speed control knob, buttons and indicators		
Air intake		Rear		
Air outlet		Front		
Housing material	Aluminun	n with sandblast e ect		
Performance				
Performance certification	AHAM, EnergyStar and	AHAM, EnergyStar and other International Testing Agency		
Certified filtration e iciency	Greater than 99.999%	Greater than 99.999% for particles ≥ 0.003 microns (μm)		
Titanium Pro UV	Yes			
Bacteria	99.9999%	99.9999%		

Ozone	Zero C	zone	
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		
сНЕРА	cHEPA, 2.0 Inch depth, Medical-grade, PP material, Surface	cHEPA,2.0 Inch depth,Medical-grade, PP material, Surface	
	area: 40 sq. ft. MPPS e iciency: 99.999% @ 0.003µm	area: 26 sq. ft. MPPS e iciency: 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		
	<ul> <li>Smart Control Cloud Computing Technology with the APP</li> <li>Real time monitor air quality and regulate speed and more on APP</li> </ul>		
APP Features	Admin access, easily manage up to thousands of devices		
	Build a database of customers and o er repeat sales. Filter replacement reminders		
	Easily manage your rental customers		
	<ul> <li>Advanced Timer setup, unique time/date templates for all/some managed customers</li> </ul>		
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	
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## 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 <u>Air</u> with a <u>Great Level of Efficiency</u> has made us a world class provider of air purification. Internationally Airgle Holdings includes businesses in Canada, Japan, Hong Kong (SAR China), South Korea, Singapore, Vietnam, Thailand, Malaysia, India, United Arab Emirates, Saudi Arabia, and China.



Precisely Pure

AIRGLE® CUSTOMER CARE Toll-Free: (866) 501-7750

info@airgle.com

www.airgle.com