airgle®
Precisely Pure

Empty Classrooms. Millions of lost dollars.

How much has **physical distancing** cost your school district? Your students?

If there were a way to provide **mechanical distancing**™ so students and teachers could be in the classroom without fear, even during disease outbreaks, would you take it?

Even in good years, classrooms are incubators for communicable illnesses. And, did you know that in places with poor indoor air quality productivity drops by an astounding 40% on tasks that require cognitive skills.

How much are your students missing out because of poor indoor air quality in your classrooms?

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Air Purification Designed for Hospitals: Available for Your Classrooms

The **Airgle AG900**, originally designed for hospitals, can introduce ***mechanical distancing™*** for your students and teachers by powerfully and rapidly purifying the air. Combined with frequent and consistent surface sanitation, Airgle Clean Room Air Purifiers can help improve productivity and reduce preventable absences through a clean and productive work environment.

But, how? The media says viruses are too small to be captured by filters.

It is true that even standard HEPA filters clean only to 0.3µm. It is also true that nanoparticles, such as viruses, can pass through ordinary filters and may remain airborne almost indefinitely. Influenza and corona viruses can be as small as 0.08 µm. And, the common cold virus is even smaller: only 30nm (0.03µm).

The Airgle **AG900 FDA Class I disinfectant medical device** is different:

- MERV-19, **cHEPA Filter** removes particles as small as 3nm (0.003µm) with a 99.999% efficiency.[1]
- Patented **Titanium Pro**® module sends out millions of hydroxyl radicals into the air to destroy harmful organics, like viruses.[2]
- 6 lbs. of activated carbon blend in the **Gas & Odor Filter** removes dangerous gasses and chemicals.
- The AG900 removes 99.9999% of bacteria.[3]
- Its quiet and highly efficient fan ensures fast room air changes.

An air change is when the entire volume of air in a room has been processed through the purification system. ACH refers to the number of air changes per hour.

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.
3) Third party test results.

Small droplets filled with COVID19 can stay afloat in the air for 3 hours

(National Institutes of Health[4])

Cough droplets spread over 20 feet and sneezes spread over 26 feet

What if you could reduce those 3 hours to 12 minutes or less?

AG900 can purify the entire volume of air in a 617 ft² room in just 12 minutes. (For a 20'x20' room, it takes just 8 minutes.)

Airgle Helps Realize Mechanical Distancing™

Physical distancing keeps people away from potential pathogens. Another option is to keep potential pathogens away from people through ***mechanical distancing™***. The less time a potential pathogen is in the air, the less chance it has to harm.

Airgle recommends at least **5 ACH** (air change per hour) to minimize the time people are exposed to airborne pathogens.

Foam seals and rigid aluminum filter frames ensure a 100% seal, so all air passes through Airgle's Triple Purification before returning to the room.

A minimum of 5ACH and Triple Purification helps realize **Mechanical Distancing™**.

Zero Particles at Air Outlet

Triple Purification

1. 6 lbs. of Activated Carbon blend in the **Gas & Odor Filter** removes VOCs, odors, and ozone.
2. 40 sq.ft. of **cHEPA Filter** removes particles down to 3nm (0.003um). Filtering out virtually all sizes of airbome bacteria, viruses and other harmful particles.
3. Patented **Titanium Pro**® PCO Technology generates mllions of hydroxyl radicals that attach to organic compounds and break them down into CO_2 and water. Generates no ozone.

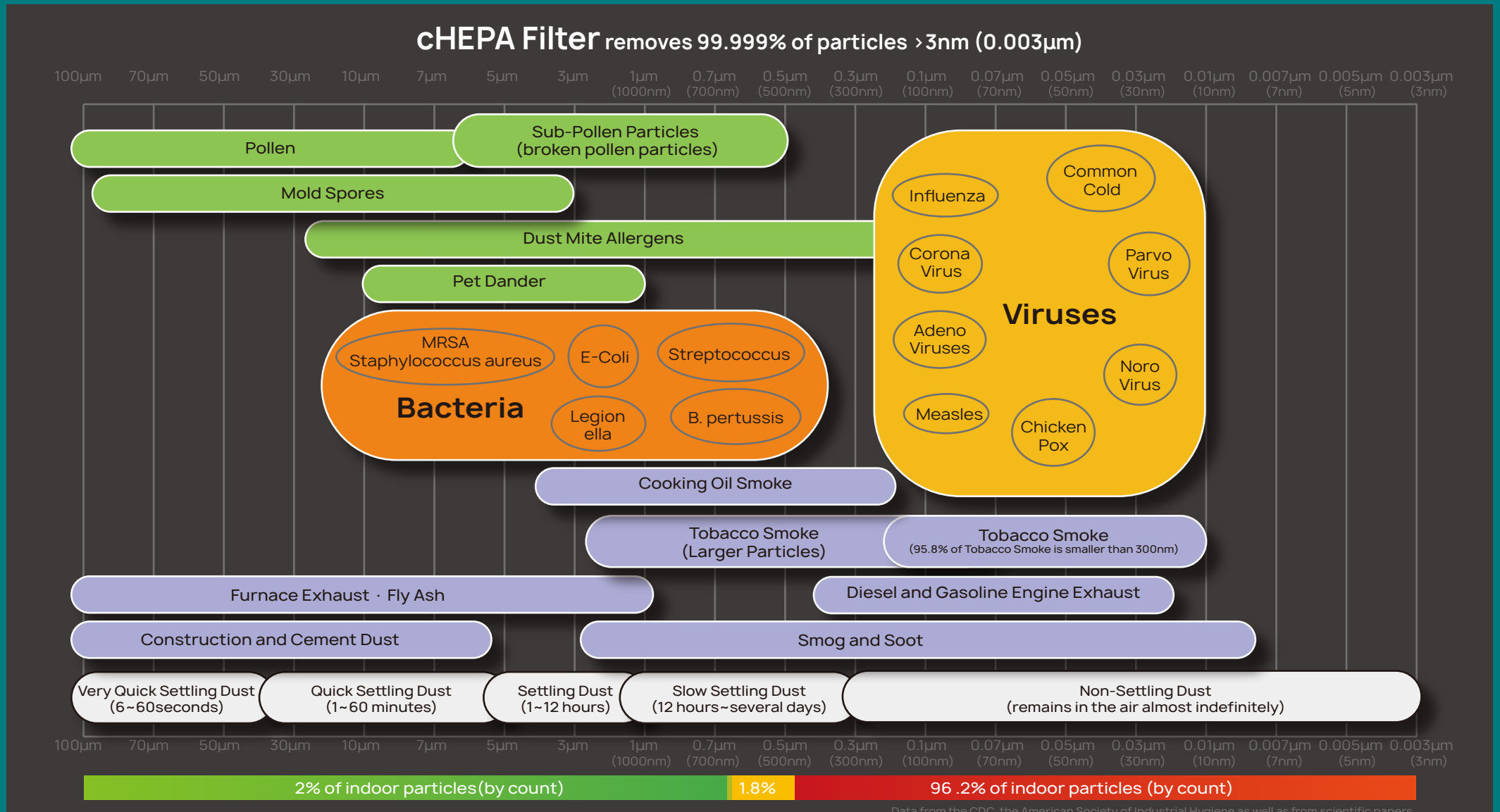
(Filter sizes listed are for the AG900)

4) National Institutes of Health, : https://www.nih.gov/news-events/news-releases/new-coronavirus-stable-hours-surfaces.

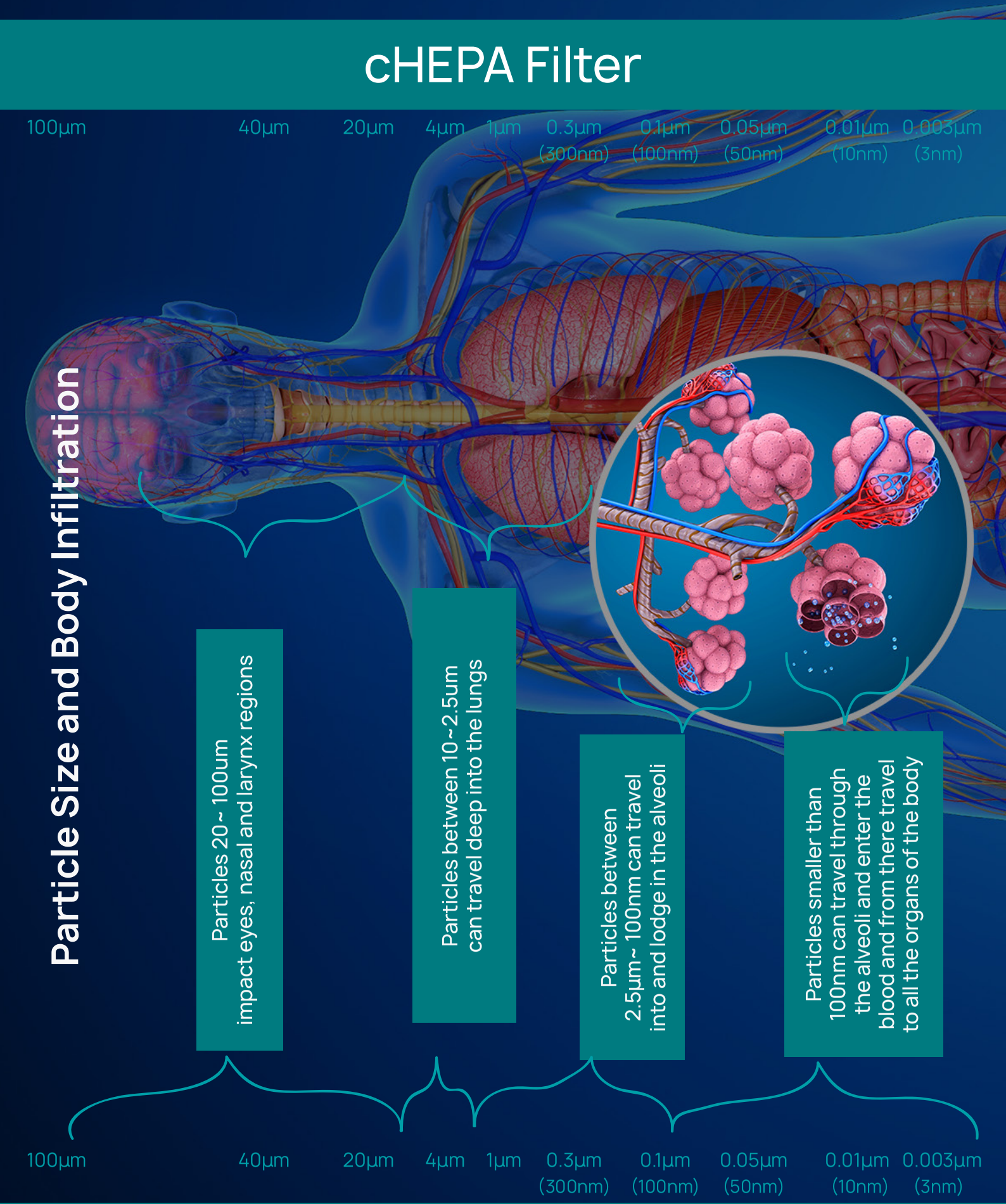
The Airgle Filtration Difference

If pollen and pet dander are the only things in your classroom air, a regular HEPA filter system is probably adequate.

But, if your students and teachers need **protection against viruses**, with average diameters less than 0.1µm, such as the COVID 19 corona virus, the influenza virus, the norovirus, the common cold, or whatever the next pandemic virus may be, you need Airgle. The Airgle **cHEPA Filter** provides medical-grade, clean-room-level purification by removing pollutants as small as 0.003 µm (3nm) with an efficiency over 99.999%.



cHEPA Filter



Length of time particles are suspended in indoor air

seconds			minutes		hours	Permanently suspended - always in the breathing zone
3	12	34	2.25	5 20	8.5	Includes 98% of the germs that cause diseases

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

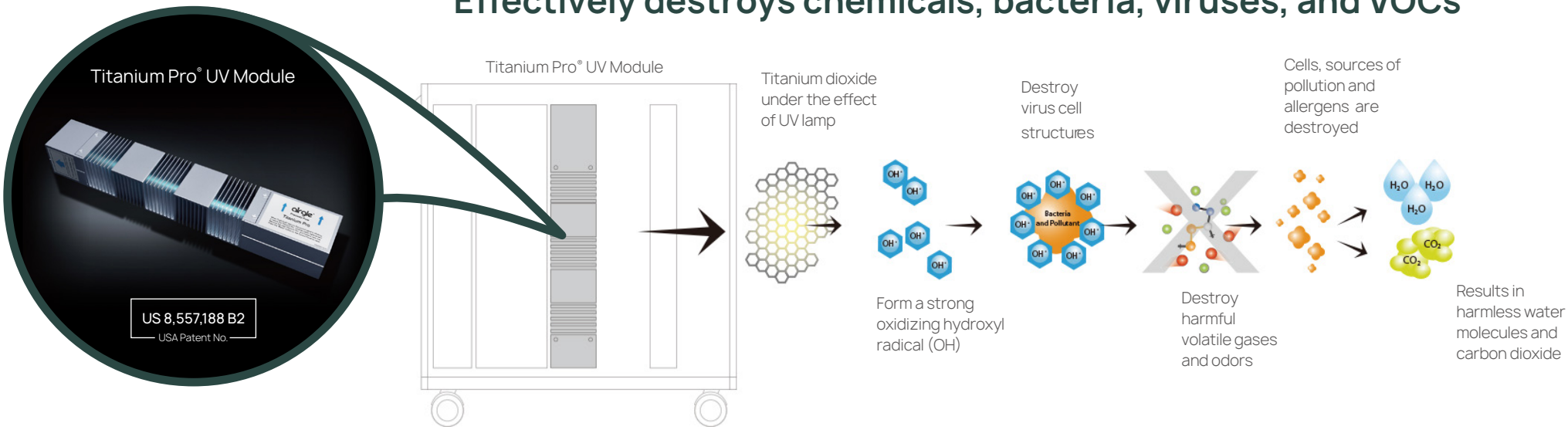
The Airgle Titanium Pro® Difference

Every minute, the patented, state-of-the-art **Titanium Pro®** module sends out millions of hydroxyl radicals* into the air - molecules made up of oxygen and hydrogen atoms. Hydroxyl radicals chemically react with airborne organic pollutants, breaking them into simple molecules such as carbon dioxide and water. They destroy living spores, bacteria, molds and viruses. Hydroxyl radicals also break down volatile organic compounds (VOCs) such as the odor-causing gasses from cleaning fluids, as well as other unpleasant odors.

Room air is pulled into the Airgle unit where it is filtered and purified first by the **Gas & Odor Filter**, and then by the **cHEPA Filter**. The **Titanium Pro®** then adds its hydroxyl radicals to the air just cleaned by those two powerful filters, before it is circulated back into the room. In other words, the air drawn into the Airgle unit will already be pre-purified by those hydroxyl radicals!

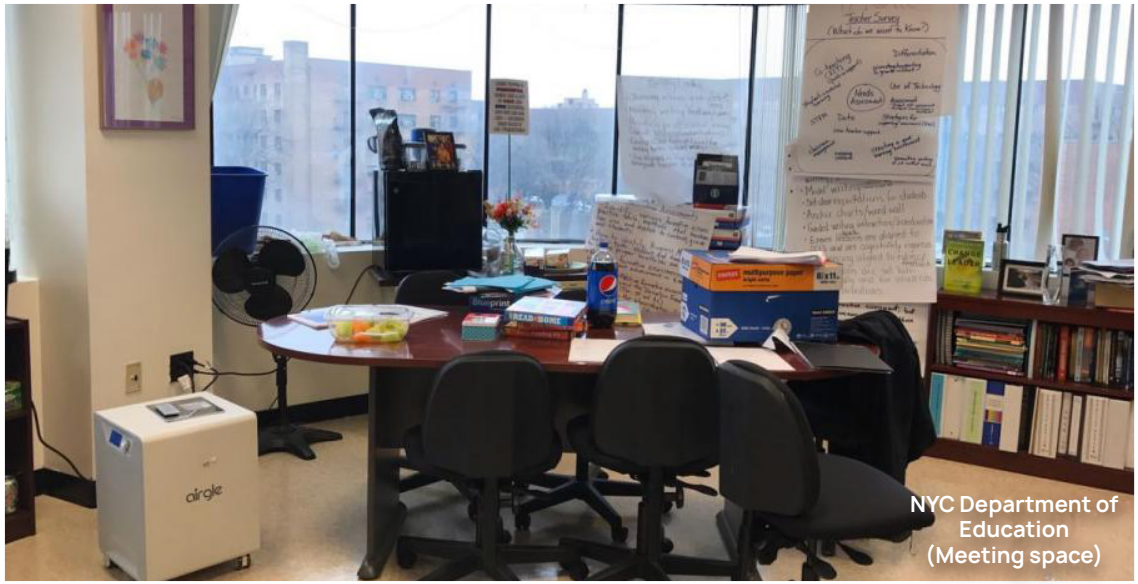
- 14 watt UVC Lamp
- Plug and play technology
- Very efficient at room temperature
- No chemical additives
- No residual ozone
- High oxidation yields for odors and VOCs
- Low energy consumption
- Works in humid conditions
- Long service life
- Low maintenance requirement

Effectively destroys chemicals, bacteria, viruses, and VOCs



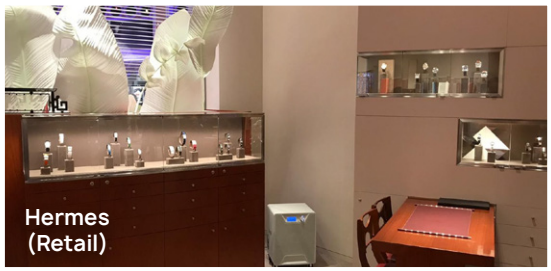
* The Titanium Pro® module creates hydroxyl radicals by exposing titanium oxide (TiO_2) to ultraviolet light. Hydroxyl radicals are naturally occurring molecules in the atmosphere. In fact, they are often referred to as the "detergent of the troposphere" because hydroxyl radicals destroy many airborne pollutants by breaking apart the molecules of the pollutant.

Additionally, titanium oxide is a stable and harmless substance that is widely used in American food additives and cosmetics: so, it is totally safe in your classroom or office.



Global Organizations Trust Airgle

Especially now, it is critical for the peace of mind of all the people who gather in your establishment to know that companies are doing their best to keep the air safe and healthful. For that, many international organizations have turned to Airgle's air purifying technology.



Airgle's hospital customers in Hong Kong successfully combatted COVID 19

Hospital	Tuen Mun Hospital - Hospital Authority
Hospital	Pok Oi Hospital - Hospital Authority
Hospital	Pamela Youde Nethersole Eastern Hospital
Hospital	Ruttonjee Hospital - Hospital Authority
Hospital	Queen Mary Hospital - Hospital Authority
Hospital	United Christian Hospital- Hospital Authority
Hospital	Tseung Kwan O Hospital- Hospital Authority
Hospital	Kwong Wah Hospital - Hospital Authority
Hospital	Caritas Medical Centre - Hospital Authority
Hospital	Gleneagles Hong Kong Hospital
Clinic	Faculty of Medicine, The Chinese University of Hong Kong
Clinic	Quality HealthCare Medical Services Limited
Clinic	EXCEL Heart & Vascular Centre
Clinic	Medtimes Medical Service Centre
Clinic	Harbour City - Medicare
Clinic	Victor & Partners Physiotheapy
Clinic	Sacred Heart Oncologists Cancer Centre
Clinic	Elite Clinic
Clinic	iRad Medical Diagnostic Centre
Clinic	MasterDerm Limited - Medical Centre
Clinic	UNIVERSAL HEALTH MEDICAL CENTRE
Clinic	TCM Dr Gladys Leung Clinic
Healthcare	Hutchison China Meditech Ltd
Healthcare	Pfizer Corporation Hong Kong Limited

Centralized Control with the APP

AG900

- Centrally & remotely manage 100s of devices
- Manage devices in multiple locations
- Create advanced time/date templates for all/some areas
- Remotely regulate speed & operation
- Monitor air quality in real time
- Notify filter replacement
- Manage devices for tenants/clients
  - Use database for repeat sales, including filter replacements

How much has Physical Distancing cost your school district?

Can you afford to not introduce ***Mechanical Distancing™*** in your schools?

Contact your distributor for a consultation based on your needs *. Discounts may be available for multi-unit purchase.

* The actual cost of deploying Airgle air purifiers in your office depends on work space size, employees per workspace, the ACH required for each workspace, and available discounts.

Technical Information

Specifications	Airgle AG900
Maximum Clean air delivery	400cfm
Clean Air Delivery Rate (CADR)	Smoke: 398 cfm Dust: 400 cfm Pollen: 379 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
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)
Air cleaner dimensions (HxWxD)	25 x 17.7 x 18.1 in.
Air cleaner weight (incl. filters)	56.5 (lbs.)
Power requirements	100-240V 50Hz - 60Hz
Maximum energy consumption	135W
Rated power	Stand by=0.4W, Speed 1=42W, Speed 2=55W, Speed 3=68W, Speed 4=80W, Speed 5 (Turbo)=135W
ENERGY STAR (Dust CADR/Watt)	3.0
Room size (ft^2)	617 ft^2
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 ≥ 0.003 microns (μm)
Bacteria	99.9999%
Ozone	Zero Ozone
Certified air delivery	10% (+ or - 10 cfm) of specified air delivery
T.V.O.C Test	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 dimensions (LxWxD)	19.1 x 15.9 x 2.0 in.

Carbon media	6 lbs. of enhanced carbon blend
Carbon Filter dimensions (LxWxH)	19.1 x 15.9 x 3.1 in.
Tio_2 UV light	US Patented Plug and Play Technology -14W
Average filter life	12 months
HEPA & Carbon Filter weight (net weight)	13.7 (lb.)
HEPA & Carbon Filter weight (Gross weight)	19.1 (lb.)
HEPA & Carbon Filter dimensions (LxWxH) (With packing)	20.5 x 17.64 x 7.44 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	● Smart Control Cloud Computing Technology with the APP ● Real time monitor air quality and regulate speed and more on APP ● Admin access, easily manage up to thousands of devices ● Build a database of customers and offer repeat sales. Filter replacement reminders ● Easily manage your rental customers ● Advanced Timer setup, unique time/date templates for all/some managed customers
Accessories	
Standard accessories	Remote control (battery included) (1), Casters (4), Owner's Instruction (1)
Name	Airgle Clean Room Air Cleaner
UPC Code	AG900：799975978253
	AF900HC：713382679015
	AF900T：799975978284

airgle®

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AIRGLE® CUSTOMER CARE
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In 1999, 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 (Airgle) has made us a world-class provider of air purification. Outside North America, Airgle Holdings conducts business in many countries including Japan, Hong Kong (SAR China), South Korea, Singapore, Vietnam, Thailand, Malaysia, India, Saudi Arabia, and China.