

AMTEK UV-C SERIES UV-C NANOTECHNOLOGY AIR SANITIZATION SYSTEM + LED Light Panel



- ✓ **KILLS BACTERIA**
- ✓ **KILLS VIRUSES**
- ✓ **KILLS FUNGI**



2' x 2' (600 x 600 mm)

- *LED light panel*
- *Operating 24/7 in occupied spaces*
- *No chemicals, not harmful for humans, animals, or plants*

FAST & CONTINUOUS AIR DISINFECTION

Air Cleaning
24 x 7
Non-Stop
Air Purification

E. Coli
& Staphylococcus
99.99%
Antiseptic Rate
after 2 hrs.

H1N1
99.99%
Antiseptic Rate
after 2 hrs.



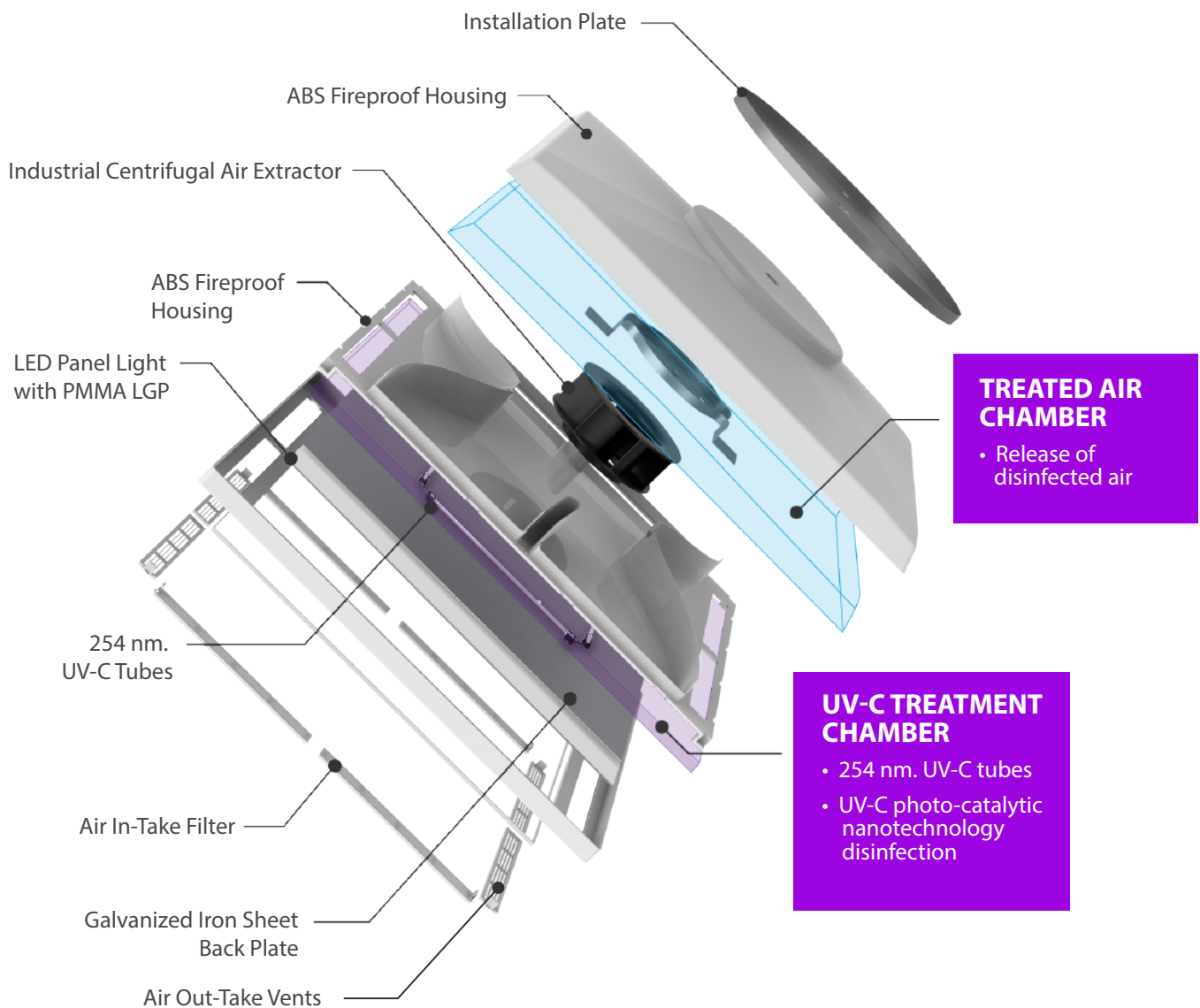
*We Enlighten Your Life
Nous Illuminons Ta Vie
Iluminamos Tu Vida*

AMTEK CANADA ACI, Suite #200, 550 Sherbrooke West, Montréal, Québec, Canada, H3A 1B9
Tel: +1(514) 819-1653 | www.amtekgroup.com

The AMTEK UV-C SERIES UV-C Nanotechnology Air Sanitization System + LED Light Panel



Scientifically Engineered



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Product Features

24 hr. air disinfection protection through:

Air Circulation

Centrifugal industrial fan draws compromised air in and blows disinfected air out.



UV-C Nano Clean Compound Coating

The sustainable nano coating contains an antibacterial agent that inhibits the ability of microorganisms to grow on surfaces.



UV-C Photo-catalyst Technology

The UV-C light stimulates the catalyst coating inside the air disinfection chamber, which quickly works to neutralize any microbes present.



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Proven by Science

Independent laboratory tests validate UV-C photo-catalytic oxidation's effectiveness to eradicate pathogens as shown on the charts below.



TEST AND VERIFICATION FOR NANO UV-CLEAN PANEL

CLASSIFICATION	TYPE	EFFECT	TESTED BY	ELIMINATION RATE
NANO UV-CLEAN PANEL	E. Coli	Antiseptic rate after 2 hrs.	Gmicro Testing, China	99.99%
	Staphylococcus Aureus	Antiseptic rate after 2 hrs.	Gmicro Testing, China	99.99%
	H1N1	Antiseptic rate after 1 hr.	Gmicro Testing, China	99.3%
	Formaldehyde	Antiseptic rate after 1 hr.	SGS, China	76.61%

TEST AND VERIFICATION FOR ANTI-VIRAL EFFECT OF NANOMETER COMPOUND MATERIAL

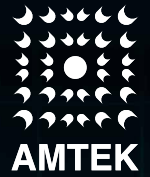
CLASSIFICATION	TYPE	EFFECT	TESTED BY	ELIMINATION RATE
VIRUS	H1N1	Virus is eliminated after 20 mins.	MicroBAC, USA	99.99%
	Enterovirus (EV)	Virus is eliminated after 20 mins.	MicroBAC, USA	99.99%
ENVIRONMENT	Formaldehyde	Antiseptic rate after 24 hrs.	Gmicro Testing, China	99.99%
	TVOC	Antiseptic rate after 24 hrs.	Gmicro Testing, China	99.99%
BACTERIA	E. Coli	Antiseptic rate after 2 hrs.	Gmicro Testing, China	99.99%
	Staphylococcus Aureus	Antiseptic rate after 2 hrs.	Gmicro Testing, China	99.99%



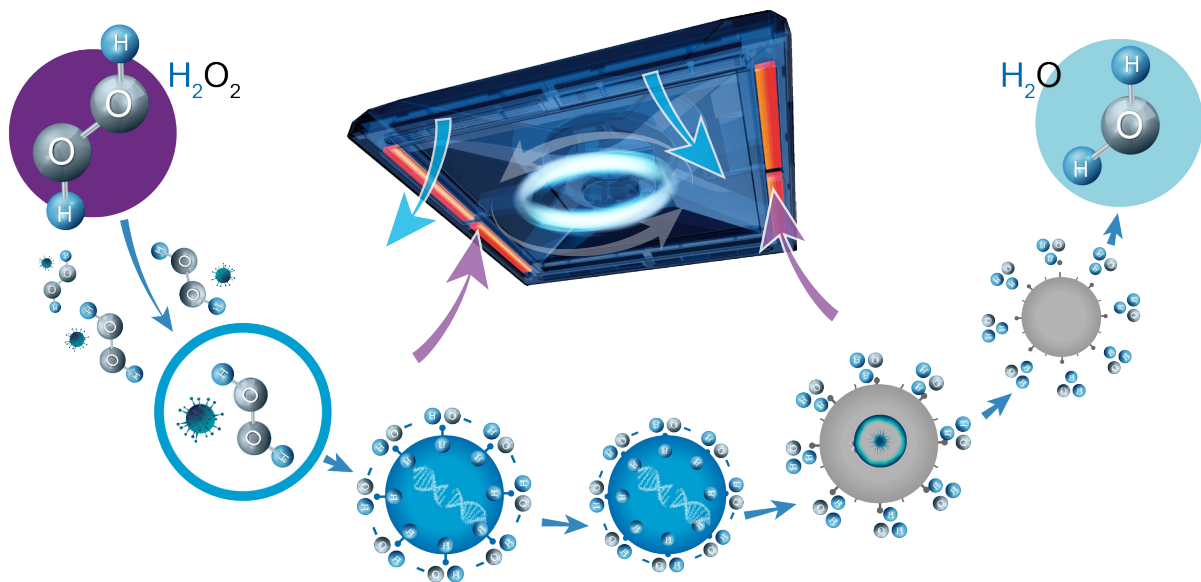
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How Does the AMTEK UV-C Nanotechnology Process Work?



1. UV-C Light and Catalyst

The UV-C light stimulates the catalyst coating ($\text{TiO}_2 + \text{Ag}$)* inside the air disinfection chamber. The silver reacts with any microbes in the incoming air to inhibit their reproduction.

2. Deactivation of Viruses

On exposure to UV-C light, O_2 and water vapour, the TiO_2 in the catalyst coating creates hydroxyl radicals ($\text{OH}\cdot$), affecting the viruses' lipid membrane or proteins. These radicals then damage the DNA of the viruses and deactivate them in the air.

3. The Virus Dies

As a result, the $\text{TiO}_2 + \text{Ag}$ catalyst ruptures the viruses' cell membranes, causing death. The air exiting the device is now disinfected.

*Titanium Oxide (TiO_2) + Silver (Ag)



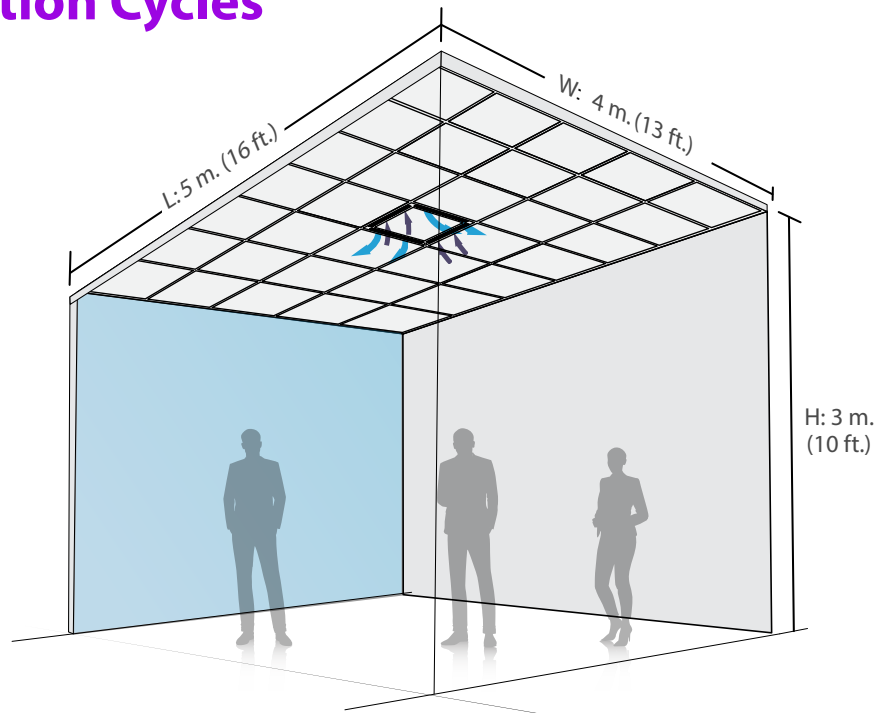
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Air Disinfection Cycles



BASED ON CLEAN AIR DELIVERY RATE (CADR)* 1 m³ /min. (36 ft³ /min.)

RECOMMENDED SPACE

AREA	NUMBER OF LUMINAIRES	TIME REQUIRED FOR DISINFECTION 99.99%	AREA	NUMBER OF LUMINAIRES	TIME REQUIRED FOR DISINFECTION 99.99%
60.0 m ³ (2110 ft ³)	1	1 hr.	480.0 m ³	1	8 hrs.
120.0 m ³ (4237 ft ³)	2	1 hr.	960.0 m ³	2	8 hrs.
180.0 m ³ (6356 ft ³)	3	1 hr.	1440.0 m ³	3	8 hrs.
240.0 m ³ (8475 ft ³)	4	1 hr.	1920.0 m ³	4	8 hrs.

*CADR - Clean Air Delivery Rate



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1st Layer:

30 g/m² Thin, non-woven fabric

2nd Layer:

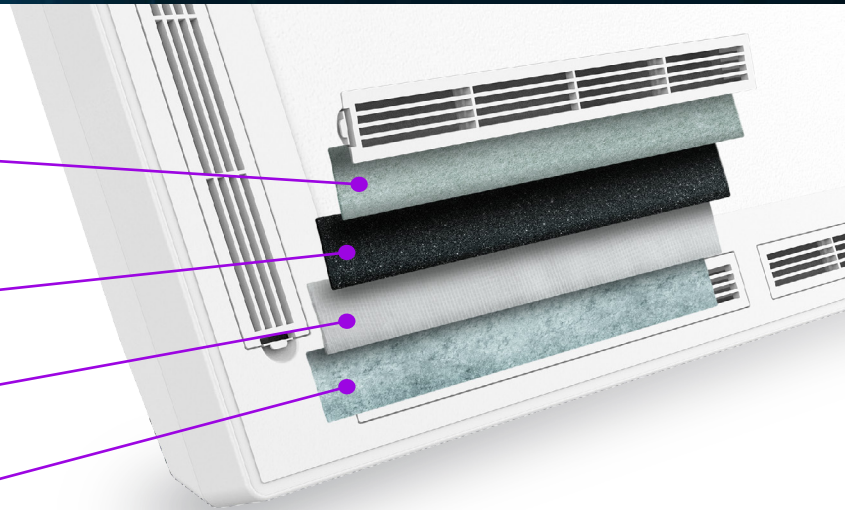
300 g/m² Antibacterial decomposition of organic gases

3rd Layer:

180 g/m² Activated carbon deodorization

4th Layer:

30 g/m² Dust removal



Easy Maintenance

2160

Working hours for
filter screen

8 hrs./day - 9 months

12 hrs./day - 6 months

24 hrs./day - 3 months



How to Easily Replace the Filter

Proceed during non-working hours

1. The LED indicator light blinks when filter is expired.
2. Fan power must be turned off.
3. Power supply of lighting system remains in normal use.



Replacement of filters

1. Follow user manual instructions to open the filter cover, remove the old filter, and insert the new one.

Pressing the RESET key

1. Press the button on the left side of the LED light for 4 seconds.
2. Light is switched off, and circulatory system power restarts.
3. Timer resets for next filter change.



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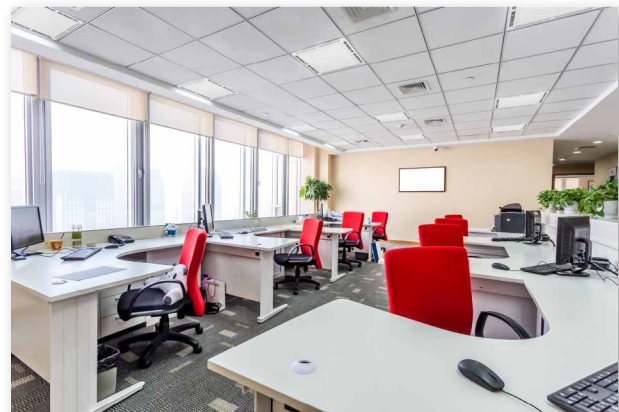
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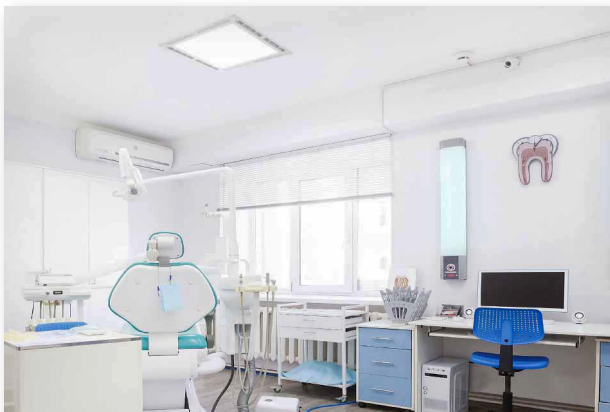
Cleaner Air, Better Light, Safer Spaces

*The **AMTEK Air Sanitization UV-C Nanotechnology System** is ideal for the disinfection of the breathing air anywhere where people congregate. Having in place a sanitization protocol for spaces where people gather for work, study, healthcare, exchanging goods and services, or simply for the joy of each other's company helps to keep our communities healthy, nurtured, and strong. Some of our typical applications:*



Offices & Leisure Spaces

Meeting rooms, general office space, VIP lounges, spas, gyms, sports centers, retail, restaurants, movie theaters.



Healthcare & Education

Hospitals & Clinics, laboratories, pharmacies, medical, dental & optometrist offices, schools, universities, lecture halls.



High-Standard Processing Areas

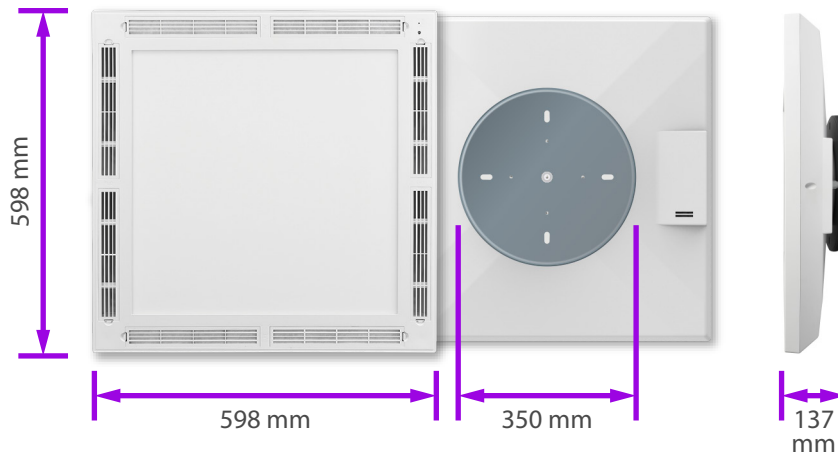
Pharmaceutical factories, hi-tech processing areas, food manufacturing factories.



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AMTEK UV-C NANOTECHNOLOGY AIR SANITIZATION SYSTEM	
Power	15 W
Centrifugal Fan Voltage	24 VDC
Centrifugal Fan Noise	<40 dB.
Centrifugal Fan Lifespan	Medical Gr.: 100,000 Continuous hrs.
CADR Fan (Clean Air Delivery Rate)	5.72 m ³ /min
Control	By Switch
UV-C Disinfectant Tubes	254 nm.
Air Filters	Eff. Working Time: 2,160 hrs.

LED LIGHT PANEL	
Power	30 W
Lumens @ 4000K	3300
Efficacy	110 lm./W
CCT	3000, 4000 5000 Kelvin
CRI	80 Ra.
Dimming	0-10 VDC
LED L70	50,000 hrs.
LED Light Lifespan	50,000 hrs.

AMTEK UV-C NANOTECHNOLOGY AIR SANITIZATION SYSTEM + LED PANEL	
Power	45 W
Voltage	100-277 VAC
Frequency	50/60 Hz.
Power Factor	0.9
Operating Temperature	-30°C + 50°C
Nanotech Pathogen Testing	SGS
Certifications	cETL us
Warranty	3 Years



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