

www.aetaire.com

AIR300 AIR-PURIFIER

Pure Air Treatment is all about Flexibility

*Get rid of viruses,
bacteria and moulds.*

Disinfect the air you breathe.



AIR 300 OFFERS
A REDUCTION OF
>99.99%
ON COVID19



 AIR300
AIR-PURIFIER



aetaire

Purified air treatment is all about flexibility

Four-position pneumatic system:

The air flows in and in & out in six directions, so purification is complete, avoiding any dead spots.

Four way air supply (Multi-Flow)

The revolutionary design of the air outlet grid offers clear advantages:

Double-sided air intake

The air returns faster and cleaner, and the room has no dead spots.

- The air flows in and out in six directions, forming a three-dimensional circulating air flow
- Air exchange rate up to 1200 m³/h
- The Multi-Flow outlet grid design offers a ventilation efficiency of 33% over a conventional (flat) air outlet design



The atmosphere in buildings is constantly changing and as such a modern air treatment system needs to offer flexibility.

The AIR300 is designed with this flexibility in mind.

Different problems occur throughout the year:

- Pollen, typically found in spring time, finds its way into buildings
- Unwanted smells, found in certain areas
- Microbial threats coming from both outside or inside areas
- High formaldehyde or toluene concentrations

All these problems, and more, can easily be solved with the AIR300. The AIR300 is a modular air treatment unit, which can be used in a wide variety of locations:

- Hospitals and Surgeries
- Schools
- Office buildings
- Kitchen areas
- Public waiting rooms or simply at home.

The AIR300 has two chambers, into which a filter module can be placed

Installed filter modules are:

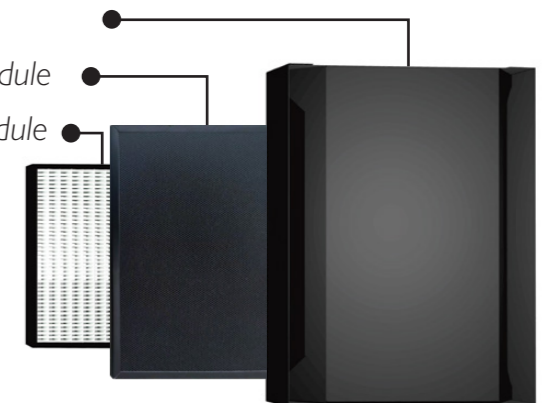
- A HEPA+ filter module
- A UV disinfection module, equipped with 2x a special 24 Watt Signify/Philips UV-C lamp

Depending on the problem, the unit can be equipped with either a single module, or a combination of any two. Changing the filter cassette is simple and will take less than 20 seconds.

UV module

Toluene module

HEPA+ module



To ensure the air composition is monitored, the AIR300 is equipped with a particle sensor which constantly measures the air quality. Set in Auto mode it will adjust the air speed so as to optimise air filtration.

The AIR300 offers professional grade air solutions:

PM0.3 removal rate:	99.995%
Formaldehyde removal rate:	99%

Three core functions:

- UV kills bacteria and viruses
- Fine filtration to remove solid airborne particles
- Absorbs gas and eliminates odour



Efficient adsorption of Total Volatile Organic Compounds (TVOC)

High-efficiency activated carbon catalysed composite material can strongly adsorb harmful gaseous indoor conditions. Under the action of catalyst, benzene / formaldehyde, etc.

The organic gas is continuously decomposed into H₂O and CO₂ which are harmless to the human body, which improves the adsorption capacity of activated carbon.

Indicator	Purification target Formaldehyde	Purification rate
Harmful gas	containing air	99 %
Removal rate	benzene air	99 %

What's inside the AIR300?

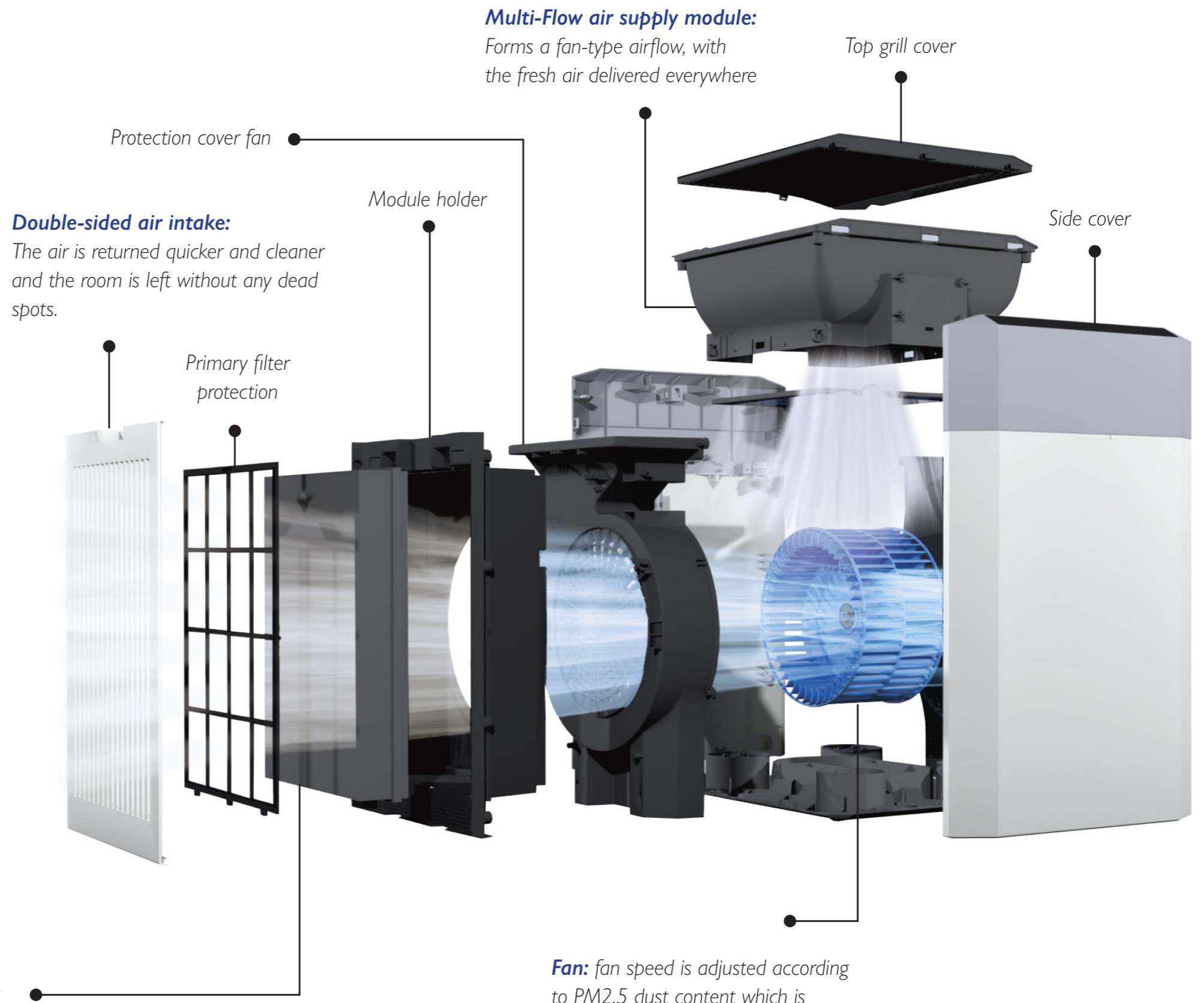


HEPA+ module:

Fine filtration of fine particles
H 14 type HEPA+ filter (extended area reaches 3.8 m²). The filtration rate of particles above 0.3 μm in the air can reach 99.995 %.

UV module: 2x 24 Watt Signify/Philips PL-L UV-C lamps within the unit generate ultraviolet radiation with a wavelength of 253.7 nanometres.

Module chamber



Double-sided air intake:

The air is returned quicker and cleaner and the room is left without any dead spots.

Multi-Flow air supply module:

Forms a fan-type airflow, with the fresh air delivered everywhere

Fan: fan speed is adjusted according to PM2.5 dust content which is automatically detected by the laser sensor.

Small body makes a big difference

The AIR300 uses a diamond-like 4H touch panel to make touch operations smoother and reduce fingerprints.

- Stylishly designed, the instructions are simply and clearly presented
- Ergonomically designed, the screen display is easy to read out.

- The green LED indicator strip constantly displays the status of the air particle level.



■	Excellent	< 35 ppm
■	Good	< 75 ppm
■	Poor	< 115 ppm
■	Very Poor	> 150 ppm

Multi-department air one machine solution

Designed for the complex environment of a hospital, the module is highly integrated, and one machine can meet the air management needs of multiple departments. The operational interface is simple and easy to use and maintain.

Functional requirements	Recommended combination	Examples of recommended departments
Eliminate bacteria and deactivate viruses (high infection risk) diseases, paediatrics, etc.	UV module + HEPA+ module or: UV module + UV module	Respiratory, TB and other infectious
Deodorising and degrading organic gas (Relatively closed)	HEPA+ module + TVOC module	Burns, gynaecology, obstetrics laboratory, stomatology and pathology departments
Both disinfection and removal of chemical compositions	UV module + TVOC module	Dialysis, ICU, neonatal, haematology, oncology wards.

Take purification performance to a new level

Aetaire has several years experience in the implementation of air disinfection and purification in medical environments.

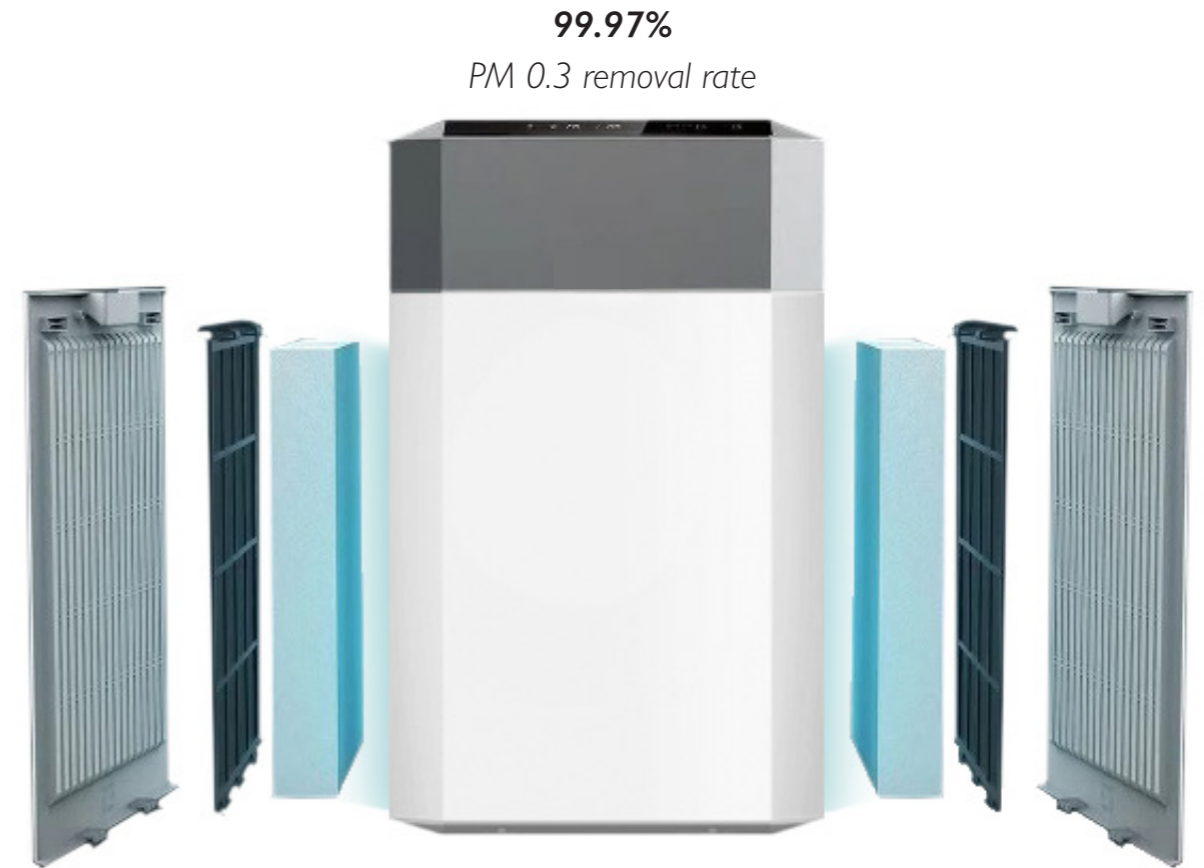
HEPA+ filter offers:

A surface area with the size of 142 basketball courts

- Equipped with Toray® H14 HEPA+ filter from Japan,
- Effectively removes fine particles as small as 0.3 microns capable of entering the human alveoli (lungs),
- Filtration efficiency is as high as 99.995%,

The TVOC module offers (optional):

- A filter addition, the filter element is also equipped with activated carbon with special catalytic properties,
- Can eliminate formaldehyde, benzene, ammonia, second-hand smoke, odour molecules and other harmful chemicals,
- Strong adsorption and catalytic decomposition.



Kill bacteria and viruses

The ultraviolet technology has received worldwide recognition for its disinfection ability.

The special UV lamps emit light of 254 nm and focuses on killing bacteria and viruses.

Indicator	Purification target	Purification rate
Extinction rate of natural bacteria	Air bacteria	99.70 %
Virus killing rate	Influenza A & Corona virus	≥99.99 %

Accurate transmission, accurate to the second

AIR300 ensures you can enjoy the best purification experience at any time

- Built with a PM2.5 high-precision laser detector which provides an accurate reading of fine dust air particles in medical environments
- The sensor can monitor particles in the air as small as 0.3 μm
- Whenever there is dust, smoking, or cooking, all particles will be monitored and displayed
- Changes in air quality can quickly be displayed and responded to.

Monitoring down to a particle size of 0.3 μm

Change of pollutants

Measures every day 43200 times*

Monitoring of the air quality in real time

Automatic calibration

Eliminating maintenance troubles



Strong “core” power

Inside the AIR300 there is a strong cycle-breaking system by meaning of a high torque DC brushless motor.

- Consumes less energy so provides greater efficiency and durability.
- To operate the AIR300: just turn on the switch and enjoy clean air.

Air outlet PM 2.5

0 $\mu\text{g}/\text{m}^3$

Can work continuously

13 years



Spiral duct

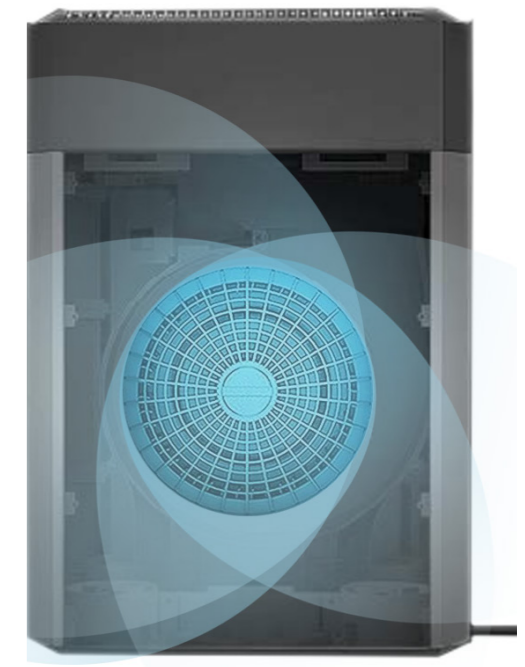
The AIR300 comes with a two-way supercharged air intake designed to greatly increase the air flow.

To reduce the noise of such high-performance equipment, several innovative design ideas are incorporated into the duct design.

- Double the purification efficiency.
- It offers a precisely designed strong core and optimised air duct curve.
- Simple and elegant, and surprisingly quiet.

To achieve this, every detail is considered:

- The number, size, spacing, and even the shape of the fan blades.
- In order to minimise the air resistance of the entire system, fans are designed with unique impeller blades,
- Air is effectively drawn in and noise reduced greatly when rotating.

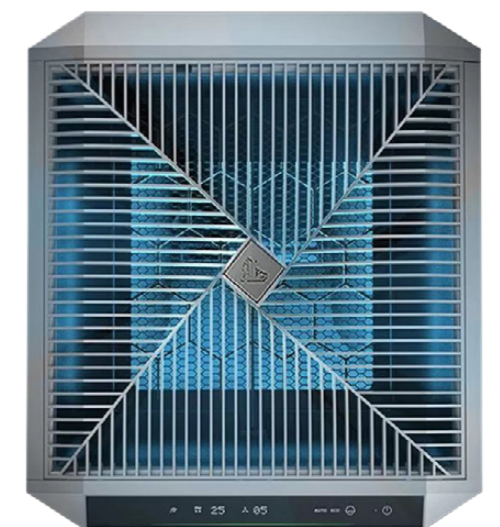


Noise 27dBA Withstand running

Multi-Flow design

The AIR300 air outlet system is inspired by nature.

- The honeycomb design concept is used to form a 45-degree air parabola.
- The novel design increases air volume by 33% and the maximises the air supply area.
- No bothersome draughts, offers maximum comfort



Powerful performance

The philosophy behind building the AIR300, is to create an air purifier that is both powerful and elegant.

AIR300 is an excellent example of this concept. It has all the elements a professional air purifier should have, including powerful purification capacity and efficiency, plus expansion performance, a low noise level and easy to operate.

AIR300 protects your health at home, at your work space or in more demanding environments.



Powerful disinfection

The AIR300 air steriliser represents ground-breaking innovation and inspiration in UV disinfection.

Based on UV powerful and efficient disinfection ability and creative design.

It provides you with a combined air pollution solution, designed to address complex and changing air problems.



Disinfection without compromise

Comprehensively responds to various bacterial, viral, and microbial control challenges.

- Professional medical air disinfection should include appearance, safety, and performance
- Test data from top third-party laboratories to supports the health benefits.

H1N1 Virus disinfection rate	99.99 %
Staphylococcus bactericidal efficiency	99.99 %
Extinction rate of common air-borne bacteria	99.70 %



Technical specifications

First-level indicator	Second-level indicator	AIR300 UV disinfection all-in-one air purifier
Performance	Size	390 x 420 x 630 mm
	Average power consumption	120 W
	Max. power consumption	180 W
	Lamps	Up to 4x a 24 Watt UV-C lamp from Signify/Philips Europe
	Noise	27-68 dBA
	Air speed levels	10 settings
	Air output	up to 1200 m ³ /h
Performance parameter	CCM(*)	P4/F4 (national standard highest level)
	Energy efficiency rating	High Efficiency
Filter Configuration	TVOC filtration Life	Filters volatile organic compounds (gases) Service life: can be reused after cleaning
	HEPA+ filtration Life	Filtration level H14, filtration accuracy reaches 99.995%. 3 to 6 months at continuous operation(***)
Security	Ozone production(**)	Ozone production <0.003 mg/m ³ (GB≤0.01 mg/m ³)
	UV light leakage	UV emission ≤1μw/cm ² (national standard ≤5 μw/cm ²)
	Power failure protection	Open position power failure protection, power supply safety protection
Operation	Easy to operate	Hand touch panel
	Fan speed settings	1-10 gear touch slide switch
	Module replacement	Opening the housing triggers powering off
	Running mode	When the UV is working, the disinfection indicator is always on

* Calculated based on 5 hours of daily use

** Tested to 0.03 μm

*** Calculated based on 8 hours of daily power on and 3 levels of air volume

HEPA+ Contains a HEPA + Active carbon Filter

Focus on Medical Air Disinfection Technology

1996 A foreign research team was established in Seattle, USA to carry out application research and development of ultraviolet light sources

2014 UV technology is widely used in defence infrastructure

2015 Domestic team participated in the revision of "UV air sterilizer safety and health standards"

2017 Medical Air Sterilizer products won 8 patents

2018 Medical Air Disinfectant Product Obtains Disinfection Product Safety Evaluation Report



A product of Alcochem Hygiene

+31 33 299 4139

Zeilmaker 4

3861 SM Nijkerk

The Netherlands

info@aetaire.com

www.aetaire.com

www.alcochemhygiene.com