

# AURABEAT

Aurabeat AG+ 醫療級銀離子抗病毒空氣淨化機  
Aurabeat AG+ Medical Grade Silver Ion Antiviral Air Purifier

# 36 秒消滅

ELIMINATE  $\geq 99.997\%$  VARIANT OF CORONAVIRUS IN 36 SECONDS \*

# $\geq 99.9997\%$ 變種新冠病毒\* (COVID-19)



(NSP-PCO)



銀離子殺菌滅毒  
Silver Ion Antiviral  
Air Purifier



註冊為美國FDA  
二級醫療器材  
FDA Registered  
Class II Medical Device

\*在實驗室環境下，NSP系列獲美國MRIGlobal 2022 實驗室編號311815.01.001實證  
Under laboratory conditions, proven by US lab MRIGlobal 2022 (Test#311815.01.001) with NSP series

[www.aurabeattech.com](http://www.aurabeattech.com)

# AURABEAT

## AG<sup>+</sup> NSP-PCO

**36 秒消滅**  
**≥99.997%**  
**變種新冠病毒 (COVID-19)\***

ELIMINATE ≥99.997% VARIANT OF  
CORONAVIRUS IN 36 SECONDS \*



除了一般淨化機的消毒、殺菌和淨化功能, Aurabeat AG+ 醫療級銀離子抗病毒空氣淨化機經過美國權威病毒生化實驗室進行第三方測試, 證實能在36秒消滅 ≥99.997%變種新冠病毒 (COVID-19)\*。每部淨化機適用範圍約538平方呎, 足以保護一般家居、課室、辦公室、酒店房及商鋪等, 大幅降低空氣飛沫傳播病毒的風險。

In addition to general disinfection against common microorganisms, the Aurabeat AG+ Silver Ion Antiviral Air Purifier is also proven to be effective against the coronavirus. According to third party testing results by a U.S. virology laboratory, Aurabeat silver ion technology can effectively eliminate ≥99.997% coronavirus variant in 36 seconds\*. With 538ft<sup>2</sup> recommended area, it can protect ordinary homes, offices, classrooms and shops to greatly reduce the risk of virus transmission via air.

# 美國權威病毒生化實驗室實證

PROVEN BY AUTHORITATIVE U.S. VIROLOGY LABORATORY

由美國權威病毒生化實驗室 MRIGlobal 實測，證實 Aurabeat AG+ 銀離子技術能有效在 36 秒消滅  $\geq 99.997\%$  變種新冠病毒 (COVID-19)\*。其他實驗測試亦證明 Aurabeat AG+ 空氣消毒技術能殺滅  $\geq 99.99\%$  流感病毒,  $\geq 99.9\%$  金黃色葡萄球菌、 $\geq 99.9\%$  白色葡萄球菌、 $\geq 99.9\%$  大腸桿菌,  $\geq 99.9\%$  真菌及其他空氣懸浮細菌。

According to the actual experimental test result by the U.S. virology laboratory MRIGlobal, Aurabeat AG+ silver ion technology can effectively eliminate  $\geq 99.997\%$  coronavirus variant in 36 seconds\*. Other experimental tests have also proven that Aurabeat AG+ air disinfection technology can kill  $\geq 99.99\%$  Influenza virus,  $\geq 99.9\%$  Staphylococcus Aureus,  $\geq 99.9\%$  Staphylococcus Albus,  $\geq 99.9\%$  Escherichia Coli,  $\geq 99.9\%$  fungi, and other airborne bacteria.



另有研究證明，銀離子亦能夠有效消滅以下病毒，細菌及真菌：

Studies have shown that silver ions can also effectively eliminate the following viruses, bacteria and fungi :



病毒  
Viruses

• 冠狀病毒  
Coronavirus

• A型流感病毒  
Influenza A Virus

• 單純皰疹病毒  
Herpes Simplex Virus

• 人類免疫缺乏病毒  
Human Immunodeficiency Virus



細菌  
Bacteria

• 金黃色葡萄球菌  
Staphylococcus Aureus

• 大腸桿菌  
Escherichia Coli

• 綠膿桿菌  
Pseudomonas Aeruginosa



真菌  
Fungi

• 白色念珠菌  
Candida Albicans

• 抗藥性念珠菌  
Candida Krusei

• 黃曲霉  
Aspergillus Flavus

• 青黴菌  
Penicillium Vulpinum

相關文獻《免疫學和過敏學檔案 2018:1:1》《催化通訊 2004:5》

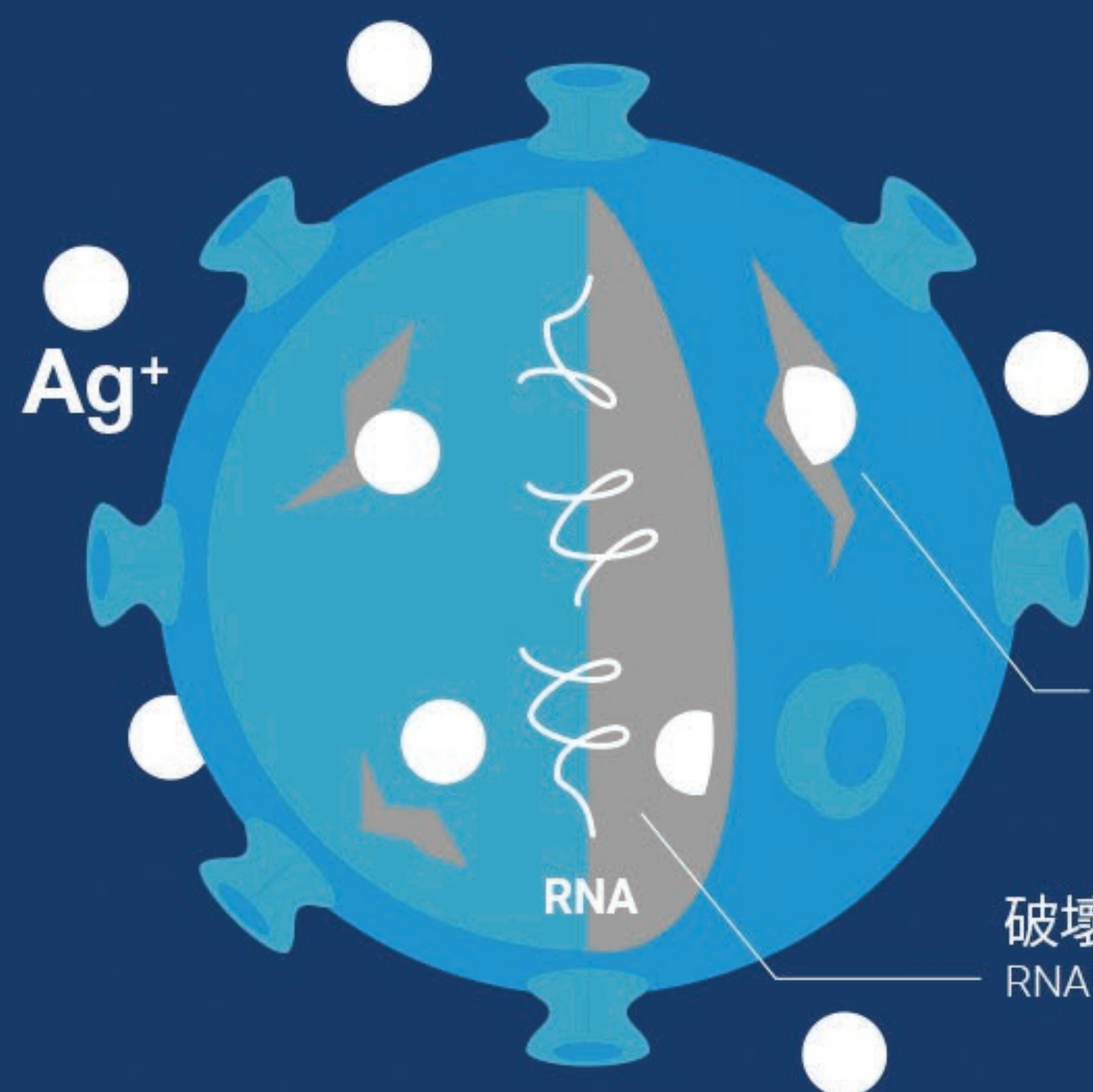
Related Literature \*Archives of Immunology and Allergy 2018:1:1 \*Catalysis Communications 2004:5

# 銀離子 - 細菌病毒剋星

SILVER ION (Ag<sup>+</sup>): THE NEMESIS OF BACTERIA AND VIRUS

## 滅毒機制

Antiviral mechanism



銀離子破壞病毒蛋白質結構  
以破壞其保護性外殼

Ag<sup>+</sup> ions interact with the virial surface proteins and damage the protective coat

破壞病毒外殼蛋白質結構  
Coat protein denaturation occurs

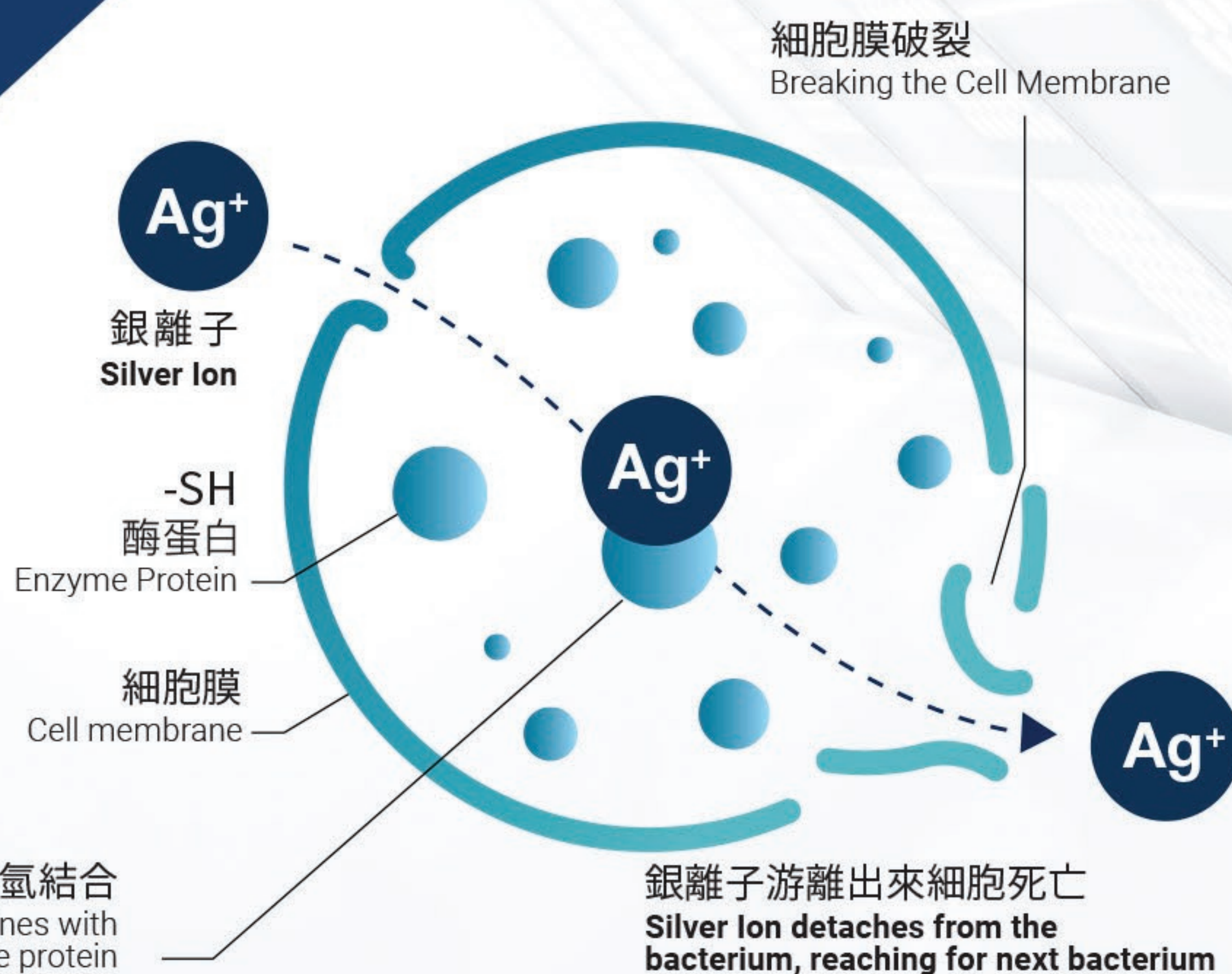
破壞病毒核酸結構  
RNA denaturation occurs

銀離子進入被破壞的病毒外殼  
進一步破壞病毒的核酸結構

Ag<sup>+</sup> ions pass through the defective coat, enter into the virus, and bind to the genome causing denaturation

## 殺菌機制

Antibacterial mechanism



細胞膜破裂  
Breaking the Cell Membrane

Ag<sup>+</sup>

銀離子  
Silver Ion

-SH  
酶蛋白  
Enzyme Protein

細胞膜  
Cell membrane

Ag<sup>+</sup>

Ag<sup>+</sup>

銀離子與酶蛋白上的硫氫結合  
Silver Ion combines with the -SH group of the enzyme protein

銀離子游離出來細胞死亡  
Silver Ion detaches from the bacterium, reaching for next bacterium

產品採用銀離子空氣過濾技術，銀離子被譽為細菌和病毒的剋星，在醫學上早已被廣泛應用。銀離子共有五種克制及消滅病毒的機制，當病毒接觸到銀離子，就能大大降低其感染能力及致病風險。

This product uses silver ion air filtration technology. Silver ions are the nemesis of bacteria and viruses and have been widely used in medical applications. There are five mechanisms for silver ions to suppress and eliminate viruses. When the silver ions come into contact with the virus, the virus's ability to infect and replicate will be greatly suppressed.



有效降解及破壞病毒

Effectively degrade and destroy viruses



壓抑病毒活躍性及感染性

Suppress virus activity and infectivity



破壞病毒的 DNA 及 RNA

Destroy the DNA and RNA of viruses



阻止病毒依附及入侵細胞

Prevent viruses from attaching and invading cells



抑制病毒複製

Suppress virus replication

相關文獻《免疫學和過敏學檔案 2018:1:1》

\*Archives of Immunology and Allergy 2018:1:1\*

# 專利技術及5重消毒淨化技術

5 STERILIZATION AND  
PURIFICATION TECHNOLOGY



## 1 初效濾網 PRE-FILTER

攔截毛髮、纖維絨、大顆粒物、煙霧顆粒和皮屑等，可用吸塵機清潔重複使用。

Captures hair, fibre, particles, dander, etc. Can be vacuumed and reused.



## 2 AG+ 專利銀離子濾網 AG+ PATENTED SILVER ION FILTER

有效快速消滅新冠病毒，及殺滅細菌，高效濾除 $\geq 99.97\%$  (HEPA) 小至0.01微米的微粒子，包括看不見的塵埃、PM顆粒等污染物。

$\geq 99.97\%$  filtration efficiency (HEPA) can filter airborne particles  $\leq 0.01\mu\text{m}$ . The filter combined with silver ions can effectively eliminate COVID-19, general viruses, bacteria and mould.



## 3 光催化層 PHOTOCATALYTIC OXIDATION LAYER

分解病毒，微生物，異味及其他有害氣體污染物。

Decomposes virus, microorganisms, odor and hazardous gas pollutants.



## 4 UV燈 UV LAMP

具有殺菌、消滅病毒功效。

Sterilizes the air and eliminates virus.



## 5 等離子消毒層 PLASMA STERILIZATION

進一步殺滅細菌、黴菌和病毒，分解有毒致癌氣體及煙霧（甲醛及其他揮發性有機物）。

Positive and negative ions generated by the plasma generator neutralize in the air, producing a great amount of energy in order to destroy microorganisms.

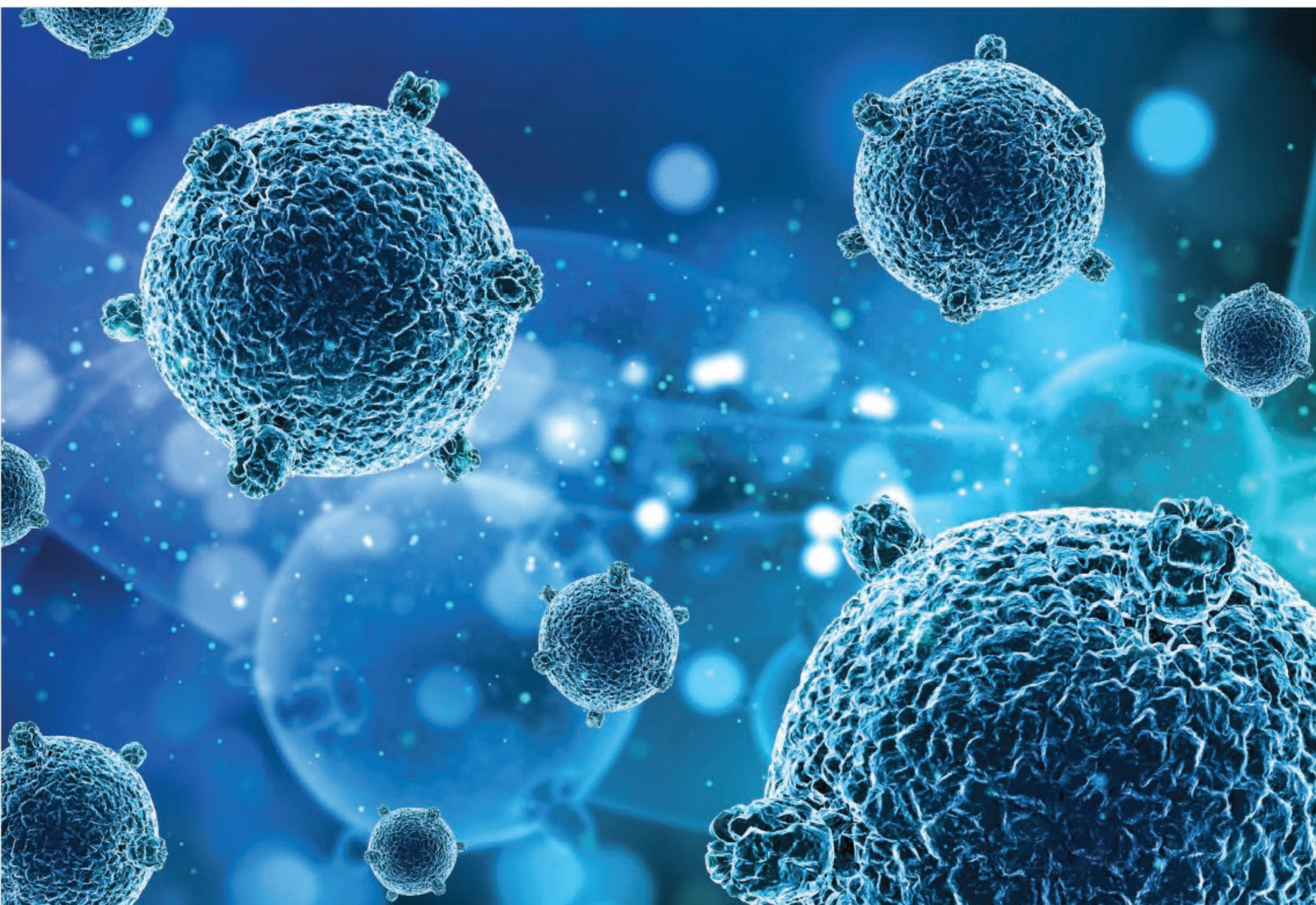


# 專利技術 科研實證

PATENTED TECHNOLOGY  
RESEARCH PROVEN

雅弦科技有限公司於 2017 年創立，是香港科技園培育計劃的成員公司，由專門研發空氣過濾及淨化技術超過 15 年的司徒健南博士，帶領一眾科研專才研發可持續及零污染的空氣淨化方案，從研發至產品生產的每一個步驟均由專業團隊嚴密監察品質。

Aurabeat Technology Limited was founded in 2017 and is a member company of the Hong Kong Science and Technology Park Incubation Programme. Dr. Roger Sze To, who has specialized in air filtration and purification technology for over 15 years, leads a group of research specialists to develop sustainable and pollution-free clean air solutions. The professional team takes the lead in research, product development and quality control.



## 智能模式 精準調節

INTELLIGENT MODE  
ACCURATE ADJUSTMENT



Aurabeat AG+ 醫療級銀離子抗病毒空氣淨化機配備智能模式，用精準傳感器監測室內空氣污染水平並調節風量，具備 3 種風速選擇。機器風量更確保每小時進行 3 至 4 次換氣及自動消毒，高效三重消毒技術可應付任何人數。

Aurabeat AG+ Medical Grade Silver Ion Antiviral Air Purifier has a built-in Intelligent Mode, using accurate sensors to monitor indoor air pollution levels and adjust the airflow rate, with 3 wind speed options. The airflow rate of the machine also ensures 3 to 4 air changes and disinfections per hour. The efficient triple-disinfection technology can handle any number of people.



SPEED



TIMER



SLEEP



PLASMA



CHILD LOCK



STERILIZE



## AG+ 專利銀離子濾網 有效2000小時

AG+ PATENTED SILVER ION FILTER  
OVER 2000 HOURS ANTIVIRAL AND  
ANTIBACTERIAL PERFORMANCE



PRE-FILTER



HIGH EFFICIENCY  
SILVER ION AIR FILTER



PHOTOCATALYTIC  
OXIDATION LAYER



UV DISINFECTION  
LAYER



PLASMA  
STERILIZATION

我們的產品跟機配送一套AG+ 專利銀離子濾網（連初效濾網）及光催化層。AG+ 專利銀離子濾網一般可使用 2000 小時。產品有智能提示，AG+ 專利銀離子濾網運作 2000 小時後便需更換濾網<sup>^</sup>。

<sup>^</sup> 非揮發性的銀離子技術，可以不斷消滅外來細菌病毒，過程中不會釋出有害物質，可以長期安心使用。

Our products are delivered with a set of AG+ Patented Silver Ion Filter (with pre-filter) and Photocatalytic Oxidation Layer. The AG+ Patented Silver Ion Filter generally needs to be replaced after 2000 hours of use<sup>^</sup>.

<sup>^</sup>Non-volatile silver ion technology can continuously eliminate bacteria and viruses. No harmful substance will be released during the purification process. Our air purifier can be used safely.

# 空氣污染 威脅健康

## AIR POLLUTION DOES AFFECT HEALTH

空氣污染對健康造成的威脅被大部分人忽略，最常見的空氣污染物包括一氧化碳、二氧化氮、臭氧、懸浮粒子、甲醛、微生物、二氧化硫和鉛。生活在市區的我們，每天打開門窗足以將室外污染帶到室內，加上每日煮食釋出的油煙、使用消毒劑清潔家居，以及寵物毛髮等都會污染家中空氣，污染量每日積存，往往比室外更嚴重。

The health risks posed by air pollution are ignored by most people. The most common air pollutants include carbon monoxide, nitrogen dioxide, ozone, suspended particles, formaldehyde, microorganisms, sulphur dioxide and lead. For those living in cities, it's not just the air pollutants being carried inside through opening doors and windows—cooking odours, the use of disinfectants to clean our homes, and pet hair all cause air pollution in our homes, and the pollutant accumulates every day. The level of indoor pollution is often more serious than outdoor pollution.

- 全球每年由空氣污染導致的死亡人數估計高達880萬。
- 除呼吸系統疾病外，空氣污染亦引致心臟病和中風等心血管疾病，這與吸入空氣中懸浮粒子PM2.5有關。
- Globally, the number of deaths caused by air pollution is estimated at 8.8 million each year.
- In addition to respiratory diseases, the inhalation of PM2.5 suspended particles in the air increases the risk of cardiovascular diseases such as heart disease and stroke.



Anti-CO

AURABE



# 一般空氣清新機 無法消滅病毒 容易造成二次污染

GENERAL AIR PURIFIERS CANNOT  
ELIMINATE VIRUSES WHICH CAN  
EASILY CAUSE SECONDARY POLLUTION

近年流行的「新冠肺炎」(COVID-19) 可以透過氣流傳播，如果有居民咳嗽，飛沫有可能隨氣流傳到鄰近單位或走廊，家居防禦成為關鍵。然而，市面上大部分空氣清新機，只能將飛沫細菌病毒阻隔於濾網表面，而濾網本身無消滅病毒的功能，病毒可以在濾網上存活一至二星期。當空氣清新機從客廳移動到睡房時，濾網便會受到震動，積存在濾網表面的塵埃、懸浮粒子及病毒會重新進入空氣。更換或清洗濾網時，亦會將積存的病毒揚入空氣，做成二次污染。

The COVID-19 is an aerosol transmissible disease. Coughing or sneezing release viruses into the air where they can then spread to others by air current. Therefore, it is important to defend against airborne viruses at home. Most air purifiers on the market can only physically block bacteria and viruses on the surface of their filters. The filters cannot destroy the virus, which allow them to survive on the filters themselves. When a filter is fully loaded, dust particles and viruses on the filter's surface will re-enter the air. When moving, replacing or cleaning the filter, the accumulated viruses will also re-enter the air, causing secondary pollution.

**Aurabeat AG+™ 銀離子抗病毒空氣淨化機 (NSP系列) 已完成以下測試和認證：**  
**Aurabeat AG+™ Silver Ion Antiviral Air Purifier (NSP Series) has the following testing and certifications completed:**

型號 Model No.	<b>NSP-PCO</b>
額定電壓 Voltage	<b>AC 220-240 V</b>
功率 Power	<b>120 W</b>
產品尺寸 Dimensions	<b>390×211×628 mm</b>
運行最大噪音 Max. Noise Level	<b>≤58 dBA</b>
潔淨空氣流量CADR值 Particulate CADR	<b>370 m³/h</b>
建議使用面積 Recommended Area	<b>538 ft²</b>
AG+ 專利銀離子濾網 AG+ Patented Silver Ion Filter	✓
濾網過濾效能 <b>≥99.97% (HEPA H13)</b> Filter Filtration Efficiency	
等離子消毒層 Plasma Sterilization	✓
UV 消毒殺菌 UV Disinfection	✓
PM2.5顆粒淨化 PM2.5 Removal	✓
甲醛淨化 Formaldehyde Removal	✓
甲苯淨化 Toluene Removal	✓
TVOC淨化 TVOC Removal	✓
濾網更換提醒 Filter Replacement Reminder	✓
濾網使用壽命 Filter Life	<b>2000 hours</b>
風速選擇 Fan Speed Settings	<b>3</b>
智能模式 Smart Mode	✓
PM2.5即時監測 PM2.5 Sensor	✓
定時 Timer	✓
睡眠模式 Sleep Mode	✓
兒童鎖 Child Lock	✓
重量 Net Weight	<b>8.6 kg</b>



▶ 證實在實驗室環境下，可於 36 秒消滅≥99.997% 變種新冠病毒  
 Under laboratory conditions, proven to eliminate ≥99.997% coronavirus variant in 36 seconds



▶ 美國食品藥品監督管理局註冊 510(k) II 類醫療器械  
 FDA Registered 510(k) Class II Medical Device  
 ▶ 通過美國食品藥品監督管理局確認為醫療級別消毒空氣淨化機  
 FDA cleared as medical grade sterilization air purifier



EN1822-3:2009 高效空氣過濾器 (EPA, HEPA 和 ULPA)。測試單層過濾器材質  
 EN1822-3:2009 High efficiency air filters (EPA, HEPA and ULPA). Testing flat sheet filter media  
 ▶ AG+ 銀離子抗病毒空氣過濾器可以過濾小至 0.015 微米 (15 納米) 的顆粒  
 AG+ Silver Ion Antiviral Air Filter can filter particles of size down to 0.015µm (15nm)



對人類細胞進行細胞毒性測試 - 英國醫學研究委員會 MRC-5 細胞  
 Cytotoxicity test on human cell - Medical Research Council cell strain 5 (MRC-5)  
 ▶ 證實對人類細胞無毒性  
 No cytotoxicity to human cell



ISO 10993-10 醫療器械的生物學評估 - 刺激性和皮膚致敏性測試  
 ISO 10993-10 Biological evaluation of medical devices - Tests for irritation and skin sensitization  
 ▶ 證實不刺激皮膚  
 Proven that the technology does not cause any skin irritation



消毒技術規範 — 已針對金黃色葡萄球菌，白色葡萄球菌，大腸桿菌和天然空氣傳播的細菌進行了測試  
 Technical Standard for Disinfection – Tested against Staphylococcus Aureus, Staphylococcus Albus, Escherichia Coli, and Natural airborne bacteria.  
 ▶ 證實 Aurabeat 技術可有效殺滅金黃色葡萄球菌，白色葡萄球菌，大腸桿菌和天然空氣傳播的細菌  
 Proven that Aurabeat technology can effectively kill Staphylococcus Aureus, Staphylococcus Albus, Escherichia Coli, and natural airborne bacteria

GB/T 18202-2000 - 室內空氣中臭氧衛生標準  
 GB/T 18202-2000 - Hygienic standard for ozone in indoor air

▶ 證實 Aurabeat 技術不會釋出臭氧  
 Proven that Aurabeat technology will not emit Ozone



GB/T 18801-2015 Appendix B 顆粒物的潔淨空氣量 (PM 0.3 以上顆粒總數)  
 GB/T 18801-2015 Appendix B Clean Air Delivery Rate (PM 0.3 and above)

▶ 證實 Aurabeat 空氣淨化機的潔淨空氣流量 CADR 值達到 370m³/h  
 Proven that Aurabeat air purifier particulate CADR reaches 370m³/h

**AURABEAT** 產品官方網頁及總代理 雅弦科技有限公司  
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