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www.airquality.com

Prompt of AirQuality
Date of this manual will be changed without notice as AirQuality keeps improving its product design and production technology.
Specific functions, data, appearance, color, etc. are subject to change. The material and pictures are only for reference. Based on domestic laws, it will become invalid in case of update of printing.
2025

AIRQUALITY

MESP Series

Air Sterilizing Purifier

GLOBAL CLEANTECH 100 2022

www.airquality.com



Company Profile

AirQuality Technology was established in 2011 with an investment of approximately USD 15 million. Shareholders include Herver-9 SL from Spain, Tsing Capital, Qiming Ventures, GRC Funds, etc... The company focuses on the development, production and sales of high-efficiency, consumable-free and energy-saving air treatment related products to improve air quality for global users.

In 2019, the company was selected as one of the top 25 CleanTech companies in the Asia-Pacific region by Cleantech Group. In 2020, it was rated as the Top 10 CleanTech companies in the Asia-Pacific region by StartupCity. In 2022, it won the honor of the Top 100 global CleanTech companies selected by the Cleantech Group.

AirQuality' s Mission is: "Take a deep breath!"
Business slogan is: "AirQuality Electronic Purification, Consumables Free and More Energy Efficient!"
The company's vision is: "Turning ACs into purifiers" and "Make purifiers maintenance free".

In order to achieve this vision, the company has set up a manufacturing center in Shanghai, equipped with R&D laboratories for testing purification efficiency, air volume, static pressure, noise, vibration, auto-wash tech, reliability, harmful gases and electrical safety to ensure products are safe, reliable and efficient. AirQuality has certifications such as international ISO9001, ISO14001, ISO45001, sanitary license of disinfection product manufacturer, intellectual property management system, etc. Its products have successively obtained reports such as UL, CE, CB, PSE, CCEP, TUV, LMS, SGS, etc.

AirQuality focuses on the research and development of energy-saving purification technology without consumables, and takes the lead in promoting advanced technologies such as MESP Micro Electrotatic Precipitator and Micro-Plasma to the market. The company's main products include: AC return air purifier (sterilizer), AHU air handling unit purifier (sterilizer), portable air purifier (sterilizer), air duct purifier (sterilizer), fresh air purifier, intelligent air quality monitoring system, auto-wash kitchen exhaust purifier, garbage room odor removal equipment, etc.

AirQuality has offices in major cities in China including Hong Kong, and has built a ditribution sales and service network covering all regions. The products are widely used in high-end residence, office buildings, star hotels, shopping malls, hospitals, schools, municipal facilities and other construction fields. There are many well-known projects such as Beijing APEC Yanqi Lake Hotel, Beijing Daxing Airport, Hangzhou G20 Summit West Hotel, Shenzhen Ping' an Building, Guangzhou East Tower, Tianjin Chow Tai Fook Center, Qingdao Haitian Hotel, Shanghai Metro, Chongqing Vanke Hailu Plaza and Hong Kong New City Plaza, etc.

AirQuality products have been successfully sold all over the world. The company has set up branches or direct offices in Spain, Norway, Malaysia, Mexico, Israel and others, the company has developed a global dealer network.
Well-known overseas cases include Fukuoka Hospital in Japan, Royal Plaza in Sydney, Australia, Standard Bank in South Africa, and primary and secondary school classrooms in Israel.

AirQuality adhere to the values of gratitude, excellence and innovation. It believes in long term cooperation, attaches great importance to product efficiency, innovative research and development. The company continuously introduce new energy-efficient air purification products to promote them all over the world thus satisfy the customers and their demand for high-quality air, it can make people to: "Take a deep breath!".

AIRQUALITY

Showroom





Production Line





R & D Lab





Certification

TOP 10 China Air Clean Brands

Cleantech Group 2022 GLOBAL CLEANTECH100 COMPANY

Medical Sterilization Products Registration
Health Supervision Center of National Health Commission

CE RoHS EMC LVD CGMT TUV

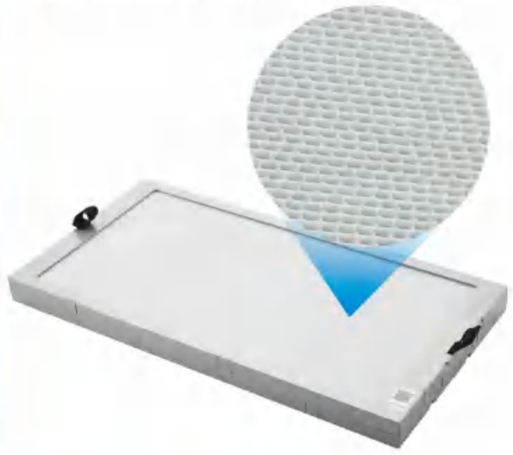
ISO 太平洋保险 CPIC SIMT SCDC SGS

MESP® Air Sterilizing Purifier

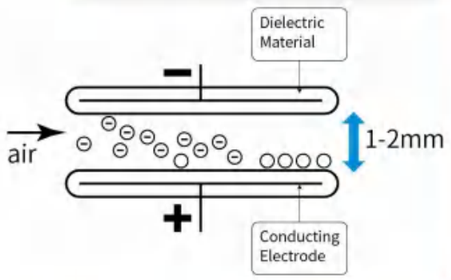
MESP® Technology

- Washable filter
- Energy Saving
- Both purify and sterilize

particles movement distance is shortened by 8 times,almost 100% of airborne particles can be captured.







• Ultra-high Purification Efficiency
The matrix design of Micro-Electrostatic filter greatly improves dust holding capacity, and enhances purification.

• No Secondary Pollution
MESP filter can be washed repeatedly without replacement to avoid serious secondary air pollution in case of not replacing HEPA filter in time.

• Kill Virus And Adsorb Smaller Harmful Particles
Remove 99% of particles in the air, and adsorb pollution particles of 0.01μm (theoratically); deactivate the virus in the electrostatic filed.

• Intelligent Purification
Intelligent self-start, purify when air flows and stop when air stops; intelligent prompt of cleaning.

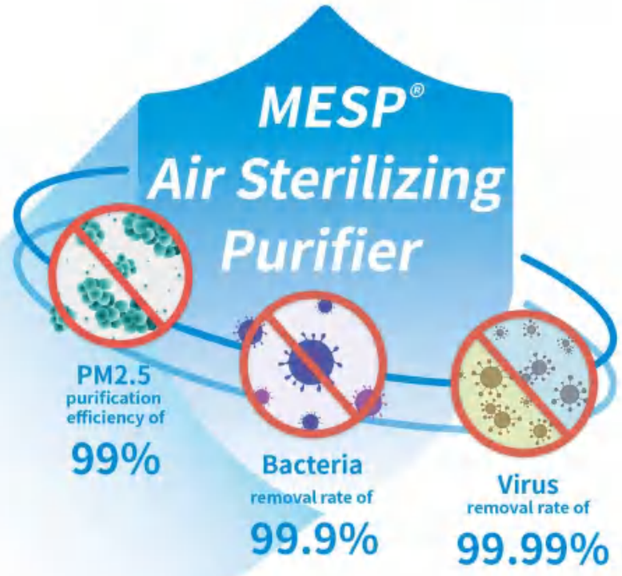
• Reduce Energy Consumption
Air resistance is less than 10Pa (FFC), which can save more energy, protect fan coil or surface coller of AHU, and prevent coil from filth blockage therefore reduce the performance of both heat exchage and temperature management.

• Safe Without Arc And Spark
MESP filter is made from special insulating material which cover high-voltage electrode, to avoid any breakdown or spark.

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MESP® Technology

MESP®, a new generation of electronic air purification technology, that utilizes strong electric fields generated and carried by unique dielectric materials to purify the air. MESP IAQ products stand out for their efficiency, washable design, energy-saving capabilities, and the ability to simultaneously eliminate particulate matters and disinfect pathogens from indoor air.



Dust Removal



When particulate matters pass through the ionization section of the device, the high voltage ionizes the air,The particles are charged so that the particles are adsorbed on the dust collecting plate.

Sterilization



There is a tiny potential difference between the cytoplasm and the cell membrane of the bacteria, and the instantaneous high pressure releases the bacteria completely and kills them.

Kill Viruses



The "elements" such as nucleic acids and proteins are destroyed, making the virus unable to survive.

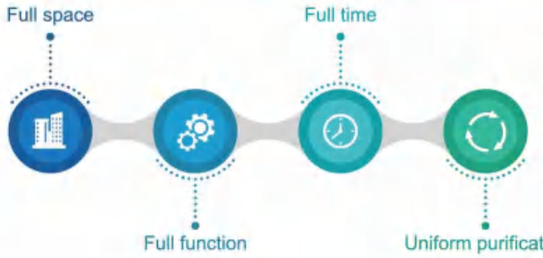
MESP® filters can be repeatedly washed and reused for more than 10 years



www.airquality.com

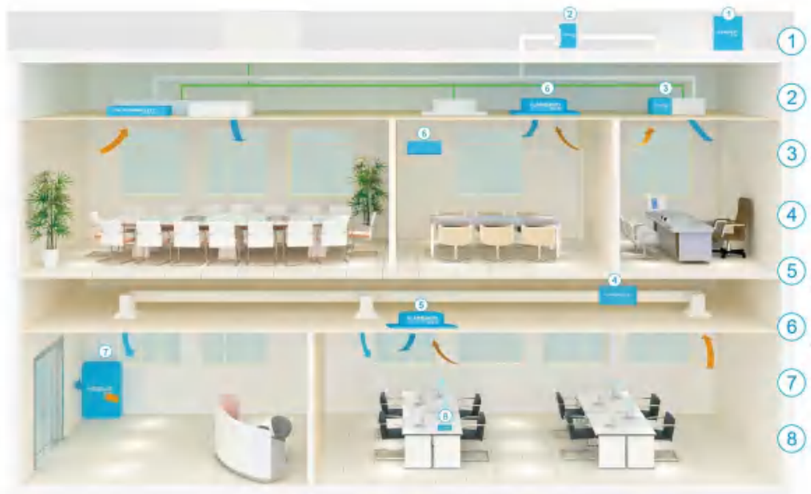
Introduction Of Central Air Sterilizing Purification System





Central air sterilization purification refers to purification of indoor air by central treatment and systematic airflow organization instead of independent discrete sterilizing purification.

The central air sterilizing purification system purifies air in indoor areas by combining various air purification equipment to effectively remove PM2.5 particles, pollen, bacteria and virus and other pollutants for good air quality.

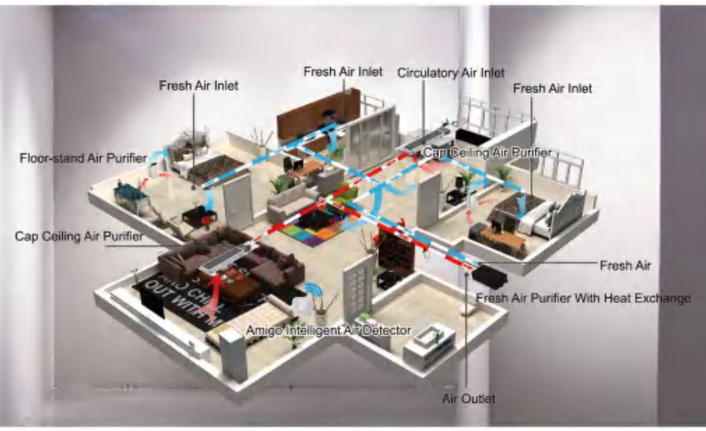


1. FAH: AHU Sterilizing Purifier
2. FAD: Air Duct Sterilizing Purifier
3. FFC: FCU Air Sterilizing Purifier
4. FFA: Fresh Air Sterilizing Purifier
5. FSA: Ceiling-mounted Air Sterilizing Purifier (Stand Alone)
6. FSA: Wall-mounted Air sterilizing purifer (Stand Alone)
7. KJ: Airquality Sterilizing Purifier
8. Amg: Smart Airquality monitor

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Central Air Sterilizing Purification Composition System

Central air purification system is divided into central air-conditioning purification system, fresh air purification system, independent circulatory purification system and intelligent control system by building space and product composition.



Central air-conditioning sterilizing purification system
Applied to fan coil and AHU to purify incoming air.

Fresh air sterilizing purification system
Purify fresh air from outdoors and indoor polluted air to get cleaner, healthier indoor air.

Ceiling independent circulatory sterilizing purification system
Applicable to places without central air-conditioning or conditions for installation of return air purification products.

Intelligent control system
Deliver intelligent control through intelligent terminal Amigo to meet people's needs for air comfort in different scenes of life.

Central Air Purification PK Discrete Local Purification



Central air sterilizing purification		Discrete purification
Improve the airflow quality		—
No space occupation		Occupy floor space
Ultralow energy consumption		Power consumption
No space limitation		Small purification area
Efficient all-inclusive purification		Low efficiency
No noise		Big noise
Intelligent system control		Complicated control
Easy maintenance		High maintenance cost

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FFC: FCU Air Sterilizing Purifier

MESP® Technology

0 space occupation, 0 material consumption, 0 noise

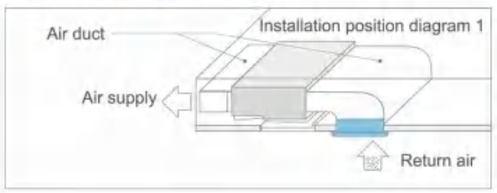
Low pressure drop, high PM removal efficiency, perfect for fan coil return air purification and disinfection.

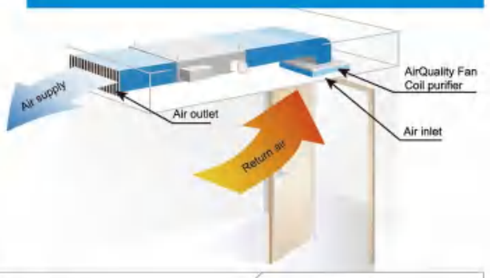


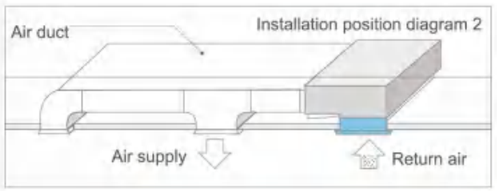
Product Feature

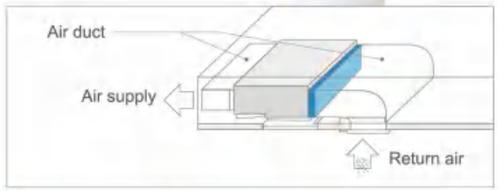
►Remove 99% of PM2.5, methanal, influenza virus and other air pollutants
►Concealed in return air inlet of central AC without affecting decoration and occupying floor space
►Low pressure drop
►3-D air circulation
►Reduce energy consumption by maintaining good performance
►Intelligent control, linked to fan coil, the device runs when there is air flow and stops when there isn' t
►Can be applied to both fluorine and water AC systems

Installation Diagram









MESP Technology | Washable and reusable filter | Remove PM viruses and bacteria | Low energy consumption | Low pressure drop | 3-D air circulation

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Specification Parameter

Model	FFC-S
Dimension(W×H×D mm)	523*550*72
Applicable Air Volume(m^3/h)	1220
Cleaning Efficiency for PM2.5(%)	Up To 99
Cleaning Efficiency of Microorganism(%)	Up To 99 (Staphylococcus albus)
Pressure Drop(Pa @1.0m/s)	10
Disinfection Method and Certification	Electrostatic Sterilization (Sterilizer Certification)
Power Supply(V/Hz)	110-240~/50-60
Rated Power(W)	8
Status Indication	Running
Weight(Kg)	7

Model	FFC03M-A2	FFC05M-A2	FFC06M-A2	FFC08M-A2	FFC03M-B2	FFC05M-B2	FFC06M-B2	FFC08M-B2
Dimension(W×H×D mm)	241*660*90	241*960*90	241*1170*90	241*1470*90	241*700*145	241*1000*145	241*1204*145	241*1504*145
Applicable Air Volume(m^3/h)	510	850	1020	1360	510	850	1020	1360
Cleaning Efficiency for PM2.5(%)	Up To 99				Up To 99			
Cleaning Efficiency ofMicroorganism (%)	Up To 99 (Staphylococcus albus)				Up To 99 (Staphylococcus albus)			
Pressure Drop(Pa @1.0m/s)	7.5				7.5			
Disinfection Method and Certification	Electrostatic Sterilization(Sterilizer Certification)				/			
Power Supply(V/Hz)	110-240~/50-60				110-240~/50-60			
Rated Power(W)	5	6	7	8	5	6	7	8
Status Indication	Running				Running			
Weight(Kg)	4.5	6.5	8	9.5	5.5	7	8.5	10

Model	FFC03MH-A3	FFC05MH-A3	FFC06MH-A3	FFC08MH-A3	FFC03MH-B3	FFC05MH-B3	FFC06MH-B3	FFC08MH-B3
Dimension(W×H×D mm)	241*660*34	241*960*34	241*1170*34	241*1470*34	242*700*110	242*1000*110	242*1204*110	242*1504*110
Applicable Air Volume(m^3/h)	510	850	1020	1360	510	850	1020	1360
Pressure Drop(Pa)(@1.0m/s)	5				5			
Microbial Circulation Removal Rate (%)	Up To 99.9 (Staphylococcus albus)				Up To 99.9 (Staphylococcus albus)			
Disinfection Time(min)	60				60			
Power Supply(V/Hz)	110-240~/50-60				110-240~/50-60			
Rated Power(W)	5	6	7	8	5	6	7	8
Status Indication	Running				Running			
Weight(Kg)	3.5	4.5	5	6	4.5	5.5	6	7

Note: 1.Product implementation standard: GB 15982-2012, WS/T 648-2019, 《Technical Specifications for Disinfection》 (Ministry of Health of China, 2002), Q31/0113000146C002-2021 (1), GB/T 14295-2019, GB/T 34012-2017, GB 4706.1-2005, GB 4706.45-2008 (2). 2.The dimension, rated power, weight, negative ion content and other data are measured by AirQuality laboratory for reference only. 3.FFC series are standard equipped with air flow sensor (suitable for A/C both with fluorine system or water system), FFC-A/A2/A3 series is external, FFC-B2/B3 series is built-in. M8 formaldehyde filter can be optional for all series (formaldehyde removal rate >90%). The pre filter for FFC-A3/B3 series is an optional part, and can also be added with negative ion generator to further improve the purification effect.



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FAH: AHU Air Sterilizing Purifier

MESP® Technology

UL LISTED E477054

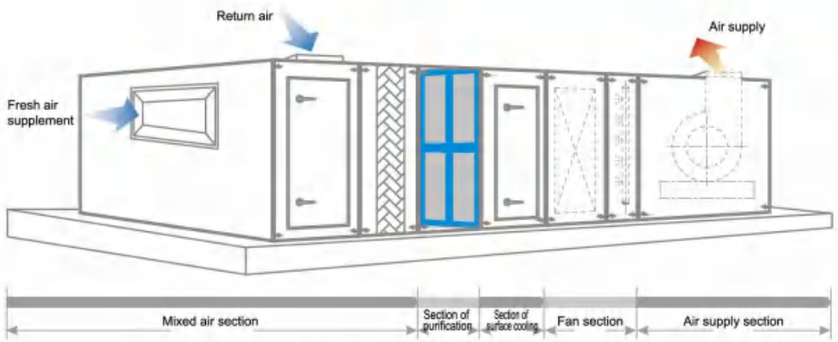
0 space occupation, 0 material consumption, 0 noise

MESP technology, ultrahigh one-time purification efficiency, and greatly reduce maintenance cost of air-conditioning system,and simultaneously disinfect indoor air to ensure a safer living environment.



Product Feature

► Replace traditional bag filter section of AHU, low air pressure drop
► One-time purification efficiency is up to 95%
► Can be washed repeatedly
► Thicker MESP module to ensure better dust removal/disinfection efficiency
► Module design to ensure higher coverage rate
► Low pressure drop and energy consumption
► Can operate in high humidity environment
► Supported by multiple certifations
► Easy to maintain
► Prax smart power module to ensure stable electricity output, high dust removal rate



Operating principle of AHU air process

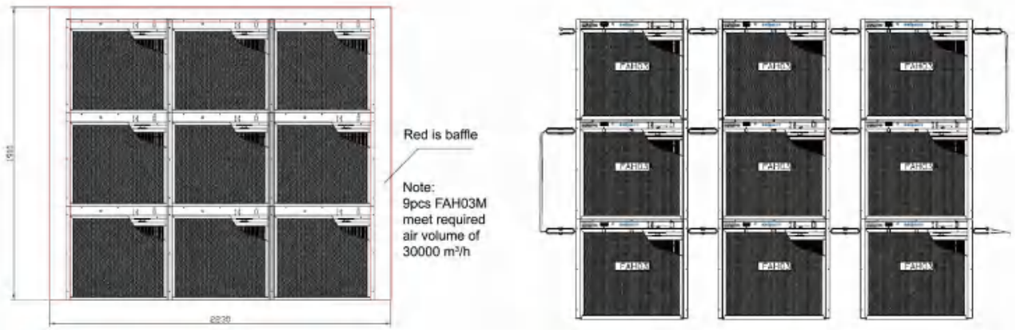
MESP Technology
Washable and reusable filter
Remove PM viruses and bacteria
Low energy consumption
Low pressure drop
Modular assembly design

AIRQUALITY

Specification Parameter

Model	FAH01M-A	FAH03M-A	FAH04M-A	FAH05M-A
Description	Single MESP Unit	Dual MESP Unit	Single MESP Unit	Dual MESP Unit
Dimension (W × H × D) (mm)	370×610×150	680×610×150	222×610×150	402×610×150
Rated Airflow (m^3/h) @ 90% $PM_{2.5}$ Removal Efficiency	1700	3400	1100	2200
Rated Airflow (m^3/h) @ 95% $PM_{2.5}$ Removal Efficiency	1300	2600	900	1800
Power Supply (V/Hz)	100-240~/50-60			
Rated Power (W)	7	13	5	8.5
Pressure Drop (Pa @ 2.5 m/s)	<50			
Microbial Purification Efficiency (%)	Up To 98 (Staphylococcus albus)			
Disinfection Method and Certification	Electrostatic Sterilization(Sterilizer Certification)			
Certification	UL / MERV 14		MERV 14	
Status Indication	Running			
Optional Components	Wiring Box / Control Box / M7 activated carbon Filter			
Weight (Kg)	10	13	6.5	8

Installation Diagram

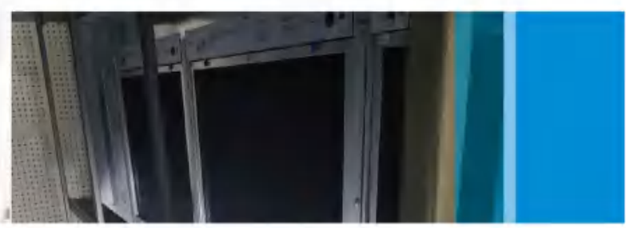


Junction Box And Control Box

Product Model	BOX1(Connection box)	BOX2M(Control box)	BOX3M(Control box)
Dimension(W×H×D mm)	130*130*37	250*300*120	223*157*110
Cabinet Material	Metal	Metal	Plastic(PC)
Power Switch	Power Terminal	Yes	/
Operating Signal Indicator	/	Yes	/
Washing Time Indication/Timing Function	/	Yes	Yes
BA Dry Contacts(Operation,Failure,Cleaning)	/	Yes	Yes

FAH-L2(Wiring package):Two 800 long wiring harnesses(Dual male and dual female configuration of connectors)





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FAH-M-BE: AHU MESP Air Purifier

MESP® Technology

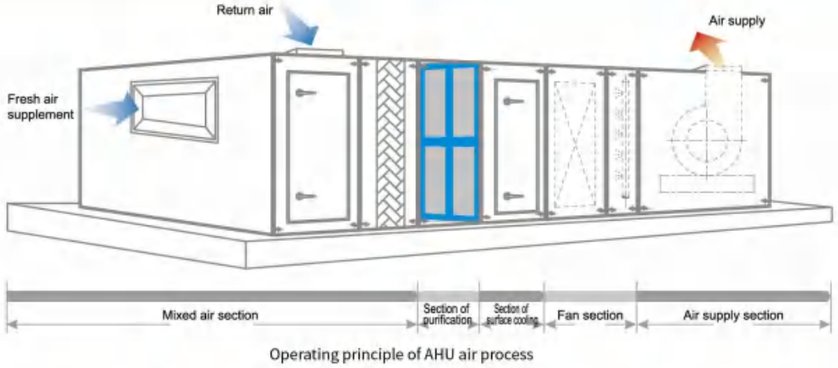
This product is used to replace traditional bag filters in AHU and can also be installed in air ducts. It can also disinfect indoor air while effectively removing air particles.

Higher ventilation area ratio; Higher one-time purification efficiency; Lower pressure drop



Product Feature

- ► Replace traditional bag filter section of AHU, low air pressure drop
- ► One-time purification efficiency is up to 95%
- ► Can be washed repeatedly
- ► Thicker MESP module to ensure better dust removal/disinfection efficiency
- ► Module design to ensure higher coverage rate
- ► Low pressure drop and energy consumption
- ► Can operate in high humidity environment
- ► Supported by multiple certifations
- ► Easy to maintain
- ► Prax smart power module to ensure stable electricity output, high dust removal rate



Operating principle of AHU air process

MESP Technology | 0 material washable filter | High Efficiency Sterilization and purification | Lower energy consumption | Lower pressure drop | Modular assembly design | Humidity Adaptive | Higher ventilation area ratio

AIRQUALITY

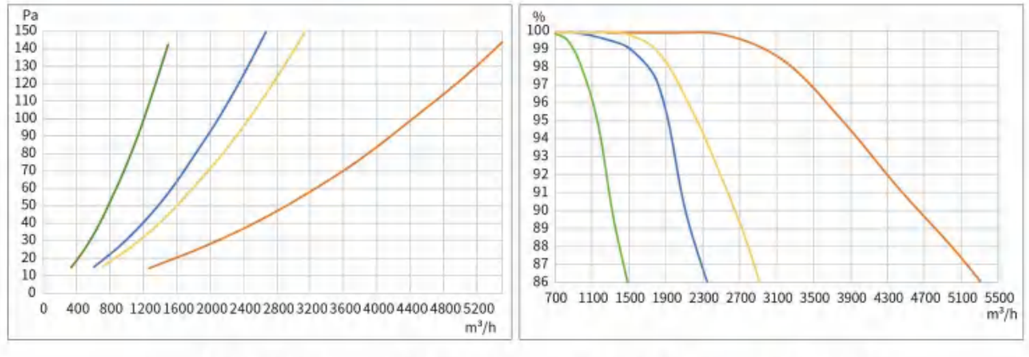
Specification Parameter

Model	FAH01M-BE	FAH03M-BE	FAH04M-BE	FAH05M-BE
Description	Single MESP Unit	Single MESP Unit	Single MESP Unit	Single MESP Unit
Dimension (W × H × D) (mm)	354*610*150	680*610*150	215*610*150	402*610*150
Rated Airflow (m^3/h) @ 90% $PM_{2.5}$ Removal Efficiency	2200	4400	1300	2600
Rated Airflow (m^3/h) @ 98% $PM_{2.5}$ Removal Efficiency	1700	3400	1100	2200
Pressure Drop (Pa @ 2.5 m/s)	⩽50			
Power Supply (V/Hz)	110-240 50/60Hz			
Rated Power (W)	9	16	9	16
Disinfection Method	Electrostatic Sterilization			
Certification	UL / MERV16			
Microbial Purification Efficiency (%)	Up To 98 (Staphylococcus albus)			
Status Indication	Running			
Optional Components	Wiring Box / Control Box / M7 activated carbon Filter			
Weight (Kg)	9	14	7	10



FAH01M-BE | FAH03M-BE | FAH04M-BE | FAH05M-BE

Air Volume - Air Resistance Air Volume - Efficiency Curve



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FAH-G AHU Electronic Air Cleaner

MESP® Plus Technology

Best Alternative To Bag Filter: Electronic Air Cleaner for Fresh Air AHU

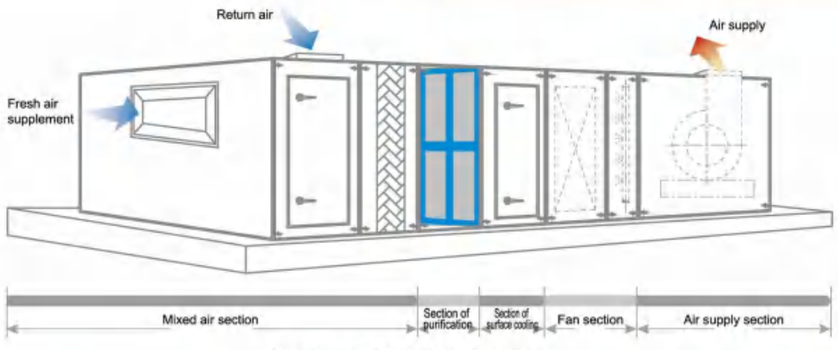
The FAH-G AHU Air Cleaner, powered by MESP® Plus Technology, this advanced air cleaner features a double-stage micro electrostatic precipitation (MESP) system, delivering superior filtration without the drawbacks of conventional filters. With a MERV15/F9 efficiency rating, it captures ultrafine particles as small as 0.01μm, significantly improving indoor air quality.

Unlike traditional disposable filters, the FAH-G Air Cleaner is fully washable and reusable, requiring cleaning only every 6–12 months. With a lifespan of up to 10 years, it reduces waste and operational costs, making it an environmentally friendly and cost-effective choice.



Product Feature

► Superior Purification Efficiency: MERV15/F9-rated, achieves >99% filtration rates, meeting stringent air quality standards for cleanrooms and industrial settings.
► Extended Maintenance Cycles: Optimized design allows up to 12-month washing cycles under moderate conditions (fresh air <25%, runtime <10 hours/day).
► Compact and Lightweight Desig: 30% smaller and lighter than conventional air filtration systems, making installation and retrofitting easier.
► Cost-Effective and High-Performance: Optimized for long-term savings with superior dust-holding capacity, ensuring efficient filtration with minimal operational costs.



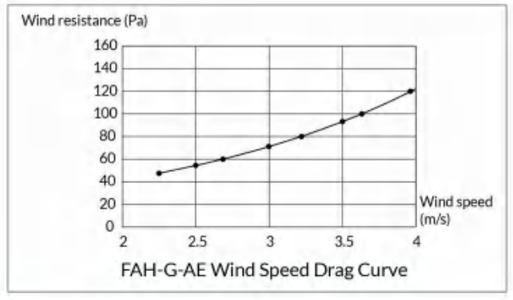
Operating principle of AHU air process

MESP-Plus | Safe | Low consumption & energy conservation | Washable filter | Large-Area Dust Collection Area | Remove PM,Kill viruses & Bacteria

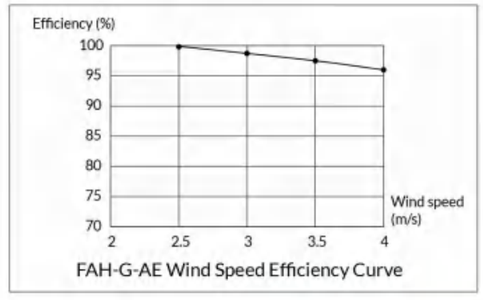
AIRQUALITY

Specification Parameter

Model	FAH01G-AE	FAH03G-AE
Description	Single MESP Unit	Single MESP Unit
Dimension (W × H × D) (mm)	370*610*280	680*610*280
Rated Airflow (m^3/h) @ 99% $PM_{2.5}$ Removal Efficiency	1700	3400
Rated Airflow (m^3/h) @ 95% $PM_{2.5}$ Removal Efficiency	2600	5200
Input Power Supply (V/Hz)	220-240 / 50-60	220-240 / 50-60
Rated Power (W)	30	40
Pressure Drop (Pa @ 2.5 m/s)	≤55	≤55
Microbial Purification Efficiency (%)	Up To 99	Up To 99
Switch Type	On-Off Bridge Switch	On-Off Bridge Switch
Status Indication	Running, Cleaning, Failure	
Equipment Weight (Kg)	16	25
Pre Filter	46mm Metal Prefilter	
Safety Configuration	Safety Switch + Airflow Sensor	
Optional Components	Wiring Box / Control Box / M7 activated carbon Filter	
BMS Port	Passive Dry Port of Failure, Cleaning	



FAH-G-AE Wind Speed Drag Curve



FAH-G-AE Wind Speed Efficiency Curve



www.airquality.com

FAD: Air Duct Sterilizing Purifier

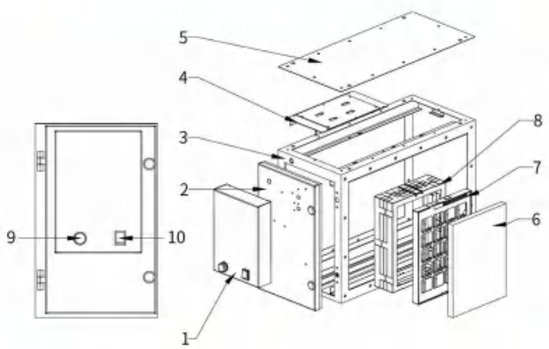
Efficient filtration, Operate in high humidity environment, Applied to high-speed airflow.

High filtration efficiency, can run in high humidity environment and with high speed air flow.



Product Feature

- ►Low efficiency loss with high speed air flow
- ►Fit in high humidity environment
- ►Safer and stable performance
- ►More options with different air volume
- ►Excellent one-pass particle removal rate
- ►Repeatedly wash with no consumbles
- ►Can be use instantly after washing
- ►Low energy consumption with flow sensor switch
- ►Easy installation.



1	2	3	4	5
Control box	Door panel	Purification parts	Electrode insulation board	Cover
6	7	8	9	10
Pre-filter	Charge grid	MESP filter	Running indicator light	Power light

MESP Technology

Washable and reusable filter

Remove PM viruses and bacteria

Low energy consumption

Safe, no arc & spark

Intelligent purification

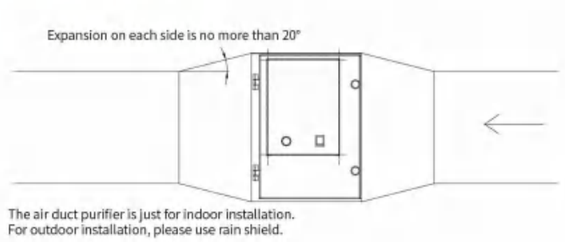
3-D air circulation

AIRQUALITY

Specification Parameters

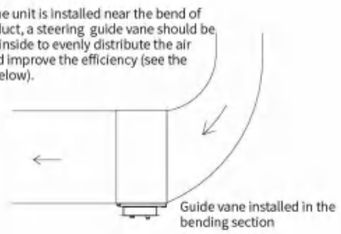
Model	FAD01M-A	FAD02M-A	FAD03M-A	FAD02M-A×2	FAD02M-A+FAD03M-A	FAD03M-A×2
Applicable Air Volume(m^3/h)	1300	2600	3900	5200	6500	7800
Pressure Drop(Pa @2.5m/s)	<50			<50		
Cleaning Efficiency for PM2.5(%)	Up To 97			Up To 97		
Microorganism Purification Efficiency(%)	Up To 97(Staphylococcus albus)			Up To 97(Staphylococcus albus)		
Power Supply(V/Hz)	100-240～/50-60			100-240～/50-60		
Rated Power(W)	5	10	15	20	25	30
Status Indication	Power Switch/Running			Power Switch/Running		
Dimension(W×H×D mm)	400×446×330	700×446×330	1000×446×330	1400×446×330	1700×446×330	2000×446×330
Weight (Kg)	13	19	25	38	44	50
Combining Form	Single Unit			Assembly Unit		

Installation Diagram:



The air duct purifier is just for indoor installation.
For outdoor installation, please use rain shield.

When the unit is installed near the bend of the air duct, a steering guide vane should be istalled inside to evenly distribute the air flow and improve the efficiency (see the figure below).



Guide vane installed in the bending section

Control Box

Model	BOX2M(Control box)
Dimension(WxHxD mm)	250*300*120
Power Switch	Power Switch
Running Light	Yes
Cleaning Time Indicating/Timing Function	Yes
BA Dry Contact(Operation,Failure,Cleaning)	Yes





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FSA: Ceiling-mounted Air sterilizing purifer (Stand Alone)

MESP® Technology

0 space occupation, 0 material consumption

Ceiling-mounted, run independently in big air volume, efficiently remove the haze and disinfect the air

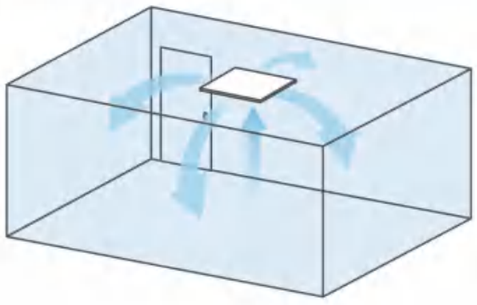


Product Feature

► Ceiling-mounted without floor occupation, run immediately after installation, easy to maintain.
► Simple embeding design fits in all occations.
► Run independently in big air volume with fan component, no need to link with Central AC system.
► Repeatedly large air circulation, air inlet in the middle, and air outlet in four directions.
► Long Maintenance cycle, high removal rates for both particles and methanol.
► 0 material waste and 0 noise, stable performance endorsed by several authorative certificates.
► Low energy consumption, large amount of negative ion are beneficial to human and animal health.
► Various control methods including remote control, APP smart control, and BMS control(RS485)

System Advantages

Applicable to spaces without central AC system or no condition to install the return air inlet-used purifiers.
Inbuilt fan can run indepedently with no need to link without linking to the central AC system.



MESP Technology | Washable and reusable filter | Remove PM viruses and bacteria | Low energy consumption | 0 ozone | 3-D air circulation | Ultrahigh air supply

AIRQUALITY

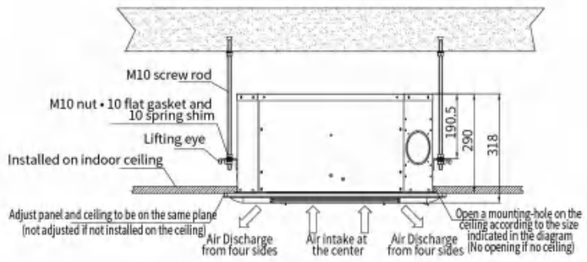
Specification Parameters

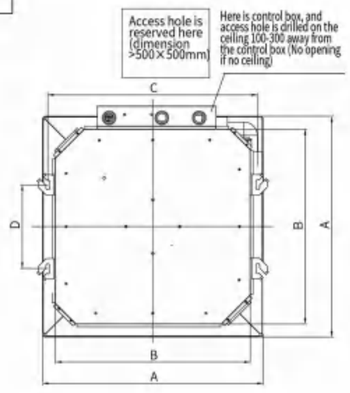
Model	FSA550M-A（International Version）
Power Supply(V/Hz)	100-240~/50-60
Rated Power(W)	65
Rated Air Flow(m^3/h)	650
Clean Air Delivery Rate Of Particulate Matter(m^3/h)	530
Accumulated Particulate Matter Purification Energy Consumption(CCM Particulate Matter)	P4
Purification Energy Efficiency(Particulate Matter m^3/(w·h))	8.1(High Efficiency)
Microbial Circulation Removal Rate (%)	99.99(Staphylococcus Albus)
Applicable Area(m^2)	35-60
Noise(High/Medium/Low Sound Pressure Level dB(A))	38/35/32
Noise(High/Medium/Low Sound Power Level dB(A))	49/46/43
Dimension(L×W×H mm)	585×585×290
Panel Dimension(L×W×H mm)	650×650×28
Weight(Kg)	21
Product Color	White
Control Mode	Remote Control/APP/Wire Control/RS485
Optional Components	M8 Formaldehyde Filter(Optional)
Types Of Touch Protection	Class I
Product Execution Standard	CB/T18801-2015；GB4706.1-2005；SB4706.45-2008
The applicable area is for room of 2.7m in height, other than that, please divide the equivalent volume of the room by actual height.	

Installation Diagram

Installation dimension of equipment	
Dimension	FSA550M-A
A	650
B	585
C	618
D	246

Recommended dimension of opening on the ceiling for installation	
Model no.	FSA550M-A
Size of opening	590~610mm







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AIRQUALITY

FSA: Wall-mounted Air Sterilizing Purifer (Stand Alone)

MESP® Technology

0 space occupation,0 material consumption and 0 ozone

Wall-mounted without floor occupation, Easy installation, Highly purification and sterilization, efficiency Intelligent operation control.

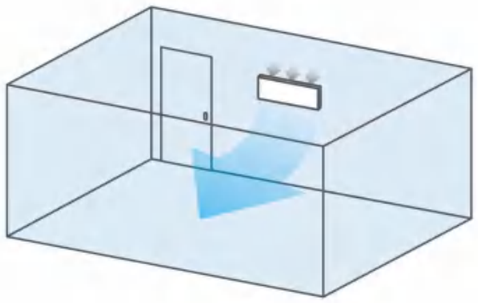


Product Feature

► Convenient installation and easy maintenance, ready-to-use
► A sterilizing air purifier with high energy efficiency
► Real-time display of air quality data, can be set automatic
► Low noise level
► Stable operation, low energy consumption
► MESP filter, can be washed repeatedly without consumables
► Adjustable air speed with 5 levels
► Intelligent control, optional control methods (Remote control/RS485/Tuya APP)

System Advantages

Applicable to spaces without a central AC system or conditions to install the return air inlet purifiers.
Inbuilt fan can run indepedently without linking to the central AC system.



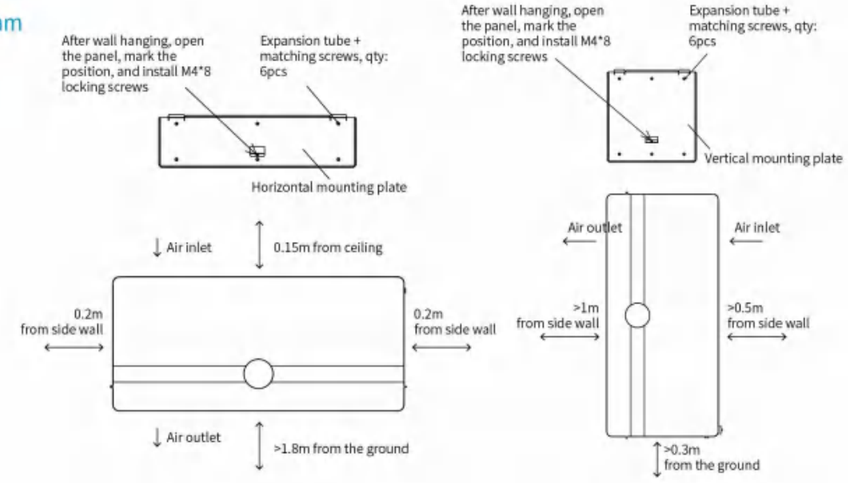
MESP Technology | Washable and reusable filter | Remove PM viruses and bacteria | Low energy consumption | 0 ozone | 3-D air circulation | Ultrahigh air supply

AIRQUALITY

Specification Parameters

Model	FSA650-W(Wall-mounted)
Power Supply(V/Hz)	100-240~/50-60
Rated Power(W)	30/25/20/15/13
Rated Air Flow(m^3/h)	650/500/400/300/200
Clean Air Delivery Rate Of Particulate Matter(m^3/h)	550
Accumulated Particulate Matter Purification Energy Consumption(CCM Particulate Matter)	P3
Purification Energy Efficiency(Particulate Matter $m^3/(w\cdot h)$)	18.3(High Efficiency)
Microbial Circulation Removal Rate (%)	99.9(Staphylococcus Albus)
Applicable Area(m^2)	35-65
Noise(High/Medium/Low Sound Pressure Level dB(A))	40/36/33/30/28
Noise(High/Medium/Low Sound Power Level dB(A))	48/44/41/38/36
Dimension(L×W×H mm)	900×415×225
Weight(Kg)	21
Product Color	White
Control Mode	Remote Control/Graffiti APP/RS485
Optional Components	M8 Formaldehyde Filter(Optional)
Types Of Touch Protection	Class I
Product Execution Standard	GB/T18801-2022; GB4706.1-2005; SB4706.45-2008
The applicable area is for room of 2.7m in height, other than that, please divide the equivalent volume of the room by actual height.	

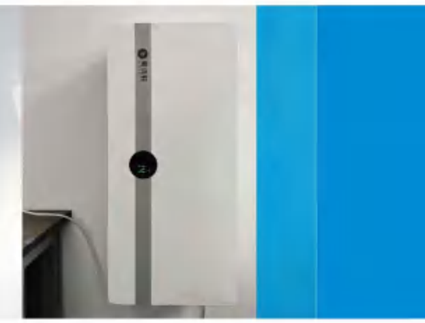
Installation Diagram



▲ Wall mounted type (horizontal)

▲ Wall mounted type (vertical)





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AIRQUALITY

MESP Portable Air Sterilizing Purifier

MESP® Technology

Especially suitable for spaces with frequent cross infection



Product Feature

► Efficient removal of PM2.5, viruses, bacteria, pollen, allergen, and other air pollutants
► Kill 99.99%+ viruses and 99.96% bacteria remove 99%+ airborne particulates
► Washable and reusable filter, no consumables
► Release negative Ion to keep refreshing the air
► M8 methanal filter of Japan steadily adsorbs and decomposes methanal and other harmful chemical gases
► "Surface design" of front panel expands air volume at the bottom and effectively purifies sedimentary pollutants at the bottom
► Low running noise, as low as 34dB in silent mode, and even lower in sleep mode
► Built-in particle sensor, indicator light displays air quality, automatically regulate air speed, and intelligent prompt of cleaning
► Low energy consumption, safe and power-saving
► Magnetic buckle panel is easy to disassemble, assemble and clean



Remove PM viruses and bacteria

Washable and reusable filter

Low consumption and energy-saving

Sterilization and disinfection

0 ozone

Negative ions

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* No consumables: filter can be washed repeatedly, no need to replace the filter.* Bacteria refers to staphylococcus albus and natural bacteria.* The record of disinfection machine can be queried on the national disinfection product online record information service platform.* The clean air amount (formaldehyde, particulate matter), cumulative purification amount, purification energy efficiency, bactericidal rate, noise, harmful substance release amount (ozone) and other data from Guangzhou Institute of Microbiology (report number: KY1055, KJ1082, KJ0644), Shanghai Environmental Quality Inspection Station (I20-35-883824, I20-35-883095)

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Specification Parameters

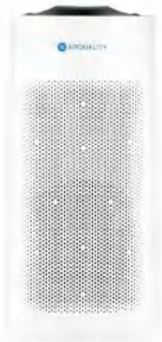
Product Model	KJ300F-02A	KJ400F-01A	KJ750F-01A
Power Supply(V/Hz)	110-240~/50-60	110-240~/50-60	220-240~/50-60
Rated power(W)	55	55	65
Rated air volume(m^3/h)	420	570	750
Clean air volume(CADR particulate matter)(m^3/h)	300	400	720
Clean air volume(CADR formaldehyde)(m^3/h)	100(Optional)	180(Optional)	None
Accumulated Particulate Purification Energy Efficiency (CCM Particulate Matter)	P1	P4	P1
Purification Energy Efficiency (Particulate Matter) (m^3/(W·h))	5.4(High efficiency)	7.3(High efficiency)	11.1(High efficiency)
Purification Energy efficiency (formaldehyde(m^3/(w·h)))	1.7(High efficiency) (Optional)	3.3(High efficiency (Optional)	None
Area of use(m^2)	20-25	25-40	50-85
Noise (sound power level)dB(A)	60(High speed mode); 34(Sleep mode)	62(High speed mode); 32(Sleep mode)	61(High speed mode);
Dimension(W×H×D mm)	335x570x220	420x690x240	370x761x340
Weight(kg)	7.5	9.5	12.7
Anion content(PCs./cm^3)	$10x10^5$	$10x10^5$	$10x10^5$
Ozone concentration	$<0.1X10^{-6}$%	<0.003mg/m^3	$<0.1X10^{-6}$%
Disinfection method	Electrostatic disinfection	Electrostatic disinfection	/
Bacteria killing rate(%)	99.96(Staphylococcus albus)	99.9(Staphylococcus albus)	/
Disinfection Time(min)	60	60	/
Virus killing rate(%)	⩾99.99(H1N1)	⩾99.99(H1N1)	⩾99.99 (H1N1)
Product Color	White	White	White
Additional Function	/	WIFI/APP	WIFI/APP
Type of Electric Shock Protection	class II	class II	class II
Product Execution Standards	GB 15982-2012; WS/T 648-2019; 《Technical Specifications for Disinfection》 (Ministry of Health, 2002); Q31/0113000146C002-2021 (1)		



KJ300F-02A (WiFi)



KJ400F-01A (WiFi)



KJ750F-01A



The dimension, rated power, weight, negative ion content and other data are measured by AirQuality laboratory for reference only.

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DEMO: MESP Demostrator

Visually display product structure and purification effect



Product Feature

- ► Portable and compact
- ► The structure is clearly visible
- ► The purification efficiency of $PM_{2.5}$ is greater than 99%

Specification Parameter

Product Name	Demostrator(MESP)
Dimension(L×W×H mm)	300×230×185
Air Volume(m^3/h)	0-150
Noise(Sound Power Level dB(A))	<59
Power Supply(V/Hz)	110~/50-60
Electric Current(A)	0.7
Power(W)	60
Weight(Kg)	4

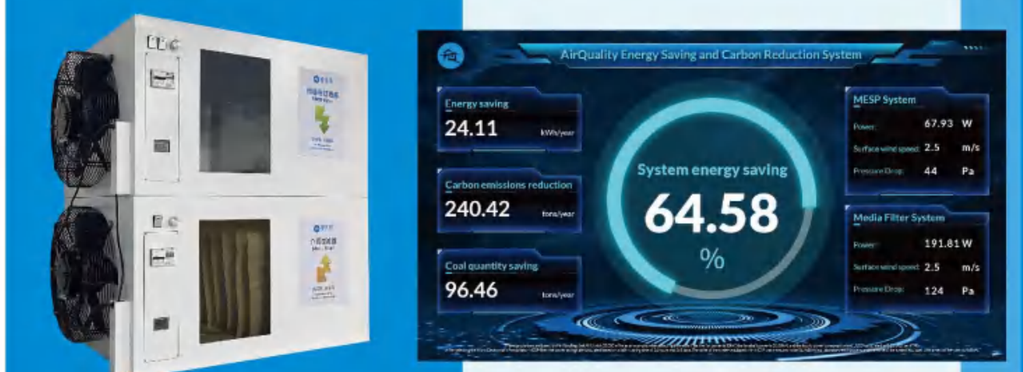


Light weight | MESP Technology | Detachable | Adjustable wind speed | Washable and reusable filter | Sterilization

AIRQUALITY

Energy Saving Effect Demo Machine (MESP VS Media Filter)

The energy saving of MESP compared with media filter under the same air speed/air volume conditions is visually presented.



Specification Parameter

Product Name	Energy Saving Demonstration Machine	
Product Model	Air Handling Unit 1#	Air Handling Unit 2#
Fan Model	PMDWF84L50-470N-400PA	PMDWF84L50-470N-400PA
Dimension(L×W×H mm)	900×655×500	900×655×500
Filter	High Efficiency Filter F8	Air Conditioning Box Purifier FAH
Filter Technology Type	Media Filter	MESP
ressure Drop(Pa @2.5m/s)	142.5	33.8
Air Volume Range(m^3/h)	0~5000	0~5000
Power Supply(V/Hz)	220-240~/50-60	220-240~/50-60
Rated Power(W @2.5m/s)	234.7	72.5
Weight (Kg)	62	62
Explanation:The data is mainly based on reports KJ202302555 and KJ202302556		



Real data | Intuitive data | Adjustable air speed | Real-time comparison | MESP technology, low carbon & energy saving

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Amg 1.1: Smart Air Quality Monitor

Laser-based PM2.5 sensor can read accurate index



Product Feature

- ► Monitor and display PM1.0/PM2.5/PM10 value
- ► Can display the number of various particles
- ► 3.2-inch color display

Specification Parameter

Model	AMG1.1
Power Supply(V)	DC 5
Working Environment Temperature(℃)	-10~50
Working Environment Humidity (%)	0~95
Particle Measurement Range(μ m)	2.5
PM2.5 Measurement Accuracy(%)	±15
PM2.5 Measurement Range(μ g/m³)	0~999
Dimension(L×W×H mm)	109×71×41
Power(W)	1
Weight(g)	150



Laser sensor

Accurate real-time detection

Particle size 0.3 μm

1S fast response

Can be placed or held

AIRQUALITY

Amg 1.3: Smart Air Quality Monitor

Laser-based PM2.5 sensor can read accurate indoor air quality index

Product Feature

- ► Real timely monitor PM2.5, temperature and humidity.
- ► Powered by either USB plug or three #7 AAA batteries.
- ► Low battery or PM2.5 exceeds standard flashing alarm.





Specification Parameter

Model	AMG1.3
Power Supply(V)	DC 5
Working Environment Temperature(℃)	-10~50
Working Environment Humidity (%)	0~95
Particle Measurement Range(μ m)	2.5
PM2.5 Measurement Accuracy(%; μ g/m³)	±15;10
PM2.5 Measurement Range(μ g/m³)	0~999
Temperature Measurement Accuracy(℃)	±1~2
Temperature Measurement Range(℃)	-10~50
Humidity Measurement Accuracy (%)	±5~8
Humidity Measurement Range (%)	20~95
Dimension(L×W×H mm)	86×48×49
Power(W)	3
Weight(g)	100



Laser sensor

Accurate real-time detection

Temperature and humidity detection

Compact design

Android data cable power supply

Battery power supply

Amg 4.2: Smart Air Quality Monitor

Monitor and display the pm concentration and purification efficiency,
And provide low efficiency or filter cleaning alarm.





Product feature

► Industrial grade particulate matter sensor with high measurement accuracy and cost-effectiveness.

► Low temperature resistance (-20~+60 ℃) and high humidity resistance (≤ 95%), suitable for various working conditions.

► RS485, Modbus, and wired connection make data transmission more convenient.

► Combined with an air quality monitor, it can quickly, intuitively and continuously monitor the purification effect of PM2.5/PM10.

► Moreover, PM sensors can be installed and connected at both the front and rear of the air purification equipment, and thresholds can be set to monitor and issue low efficiency or filter cleaning alarm when the purification efficiency drops to a preset value.

Specification Parameter

Model	AMG4.2	Air Quality Monitor
Power Supply(V)	DC 10~30	220
Working Environment Temperature(℃)	-20~60	/
Working Environment Humidity (%)	0~95	/
Particle Measurement Range（μm）	0.3~1.0；1.0~2.5；2.5~10	/
PM2.5 Measurement Accuracy	±10%@100~500 μg/m³；±10 μg/m³@0~100 μg/m³	/
PM2.5 Measurement Range(μg/m³)	0~1000	/
Dimension(L×W×H mm)	110×85×44	280*220*120
Power(W)	1	50
Type	RS485(ModBus RTU)	/
Weight(g)	200	5000

Laser sensor

7-inch LCD color touch screen

CO2 detection

Particle size 0.3~10um

Internal and external data comparison

Intelligent monitoring

Desktop placement

System

Sleep mode

Amg 4.0: Smart Air Quality Monitor

Laser-based PM2.5 sensor can read accurate indoor air quality jalue

Product Feature

► Real-time fast reading of PM2.5, temperature and humidity, CO2 and TVOC .

► Red, blue and green indicator light display

► Real-time reading of the parameters showing on android-based TV.

► Two optional installation methods: Wall-mounted/ Ceiling Mounted.

► Able to connect to BMS system with RS-485 standard.



Specification Parameter

Model	AMG4.0
Power Supply(V/Hz)	AC 180-240~/50;DC7~32V
Working Environment Temperature(℃)	-10~50
Working Environment Humidity (%)	0~95
Particle Measurement Range(μm)	2.5
PM2.5 Measurement Accuracy(%)	±15
PM2.5 Measurement Range(μg/m³)	0~1000
Carbon Dioxide Measurement Accuracy(%；ppm)	±3；±40
Carbon Dioxide Measurement Range（ppm）	400~5000
TVOC Measurement Range(mg/m³)	0.22~9.99
Temperature Measurement Accuracy(℃)	±0.3
Temperature Measurement Range(℃)	-40~125
Humidity Measurement Accuracy (%)	±0.3
Humidity Measurement Range (%)	0~100
Dimension(L×W×H mm)	134×134×35
Power(W)	6
Type	Wi-Fi2.4GHz/RS485(ModBus RTU)
Weight(g)	200

Laser sensor

Accurate real-time detection

Unit status is displayed in color

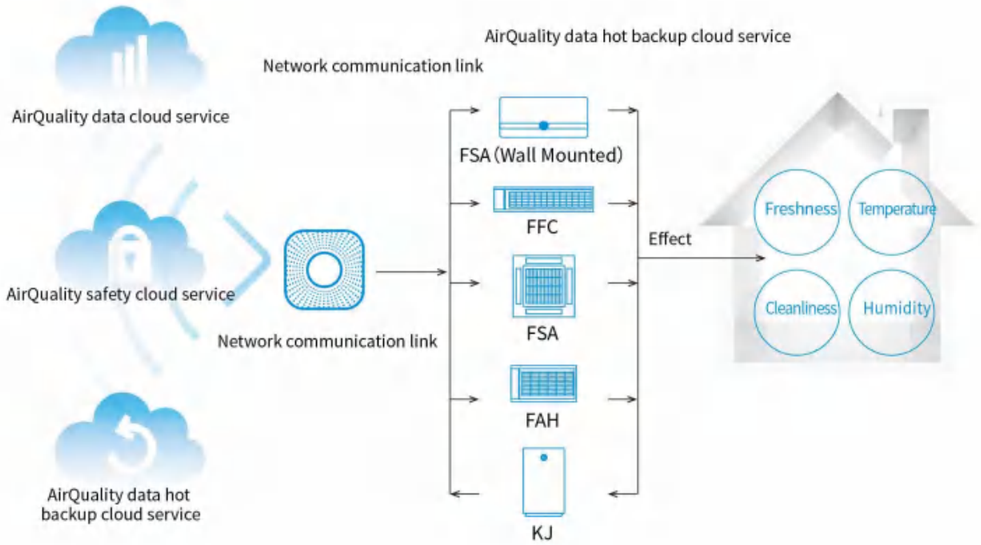
Wired/wireless connection

Compact design

Detection of 5 data

Intelligent Air Monitoring and Control System

Intelligent air monitoring and control system is composed of , Amigo series detector, purification equipment, cloud service and Data link.
Users can realize real-time monitoring of detection data, switch control of purification equipment and select operation mode through specific App, so as to have sound air purification effect.



Highlights of AirQuality Intelligent Control Platform



Laser PM2.5 sensing detection for accurate detection knowledge of indoor and air quality



Real-time indication of air value, share air quality,customize functions and store user's data.

AIRQUALITY

Backstage Management Center

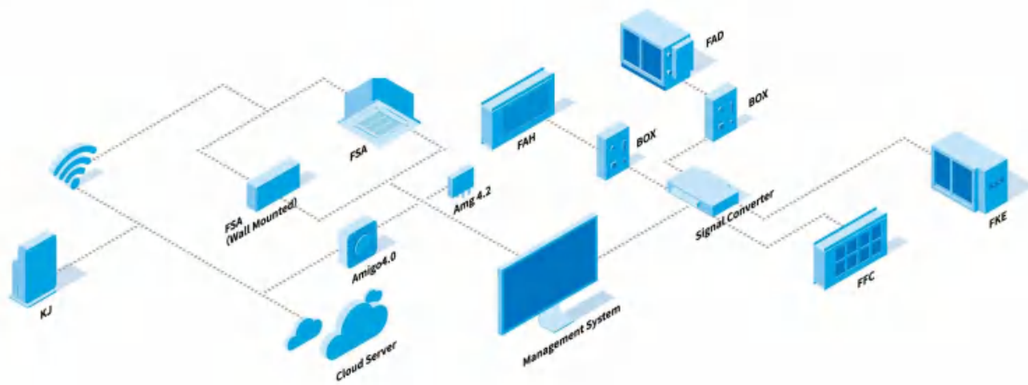
Platform website: http://cloud.airquality.net/
Relevant Products: WiFi Equipment
Recommended browsers: Chrome, FireFox, IE8 and above
Recommended resolution: 1920*1080



Product function:
1. Real-time display of air quality data in operation and export EXCEL to visualize the performance.
2. Centralized control of equipment operation through the platform.
3. View the running time of different devices and charge them in segments.
4. Immediately know the failure of the equipment.
5. Interactive sharing function.
6. Timing switch.
7. Manufacturer remote diagnosis, repair, hardware upgrade.
8. You can see the regional distribution, quantity distribution and project distribution of products.

Control System Solution

Applicable to buildings, hotels, schools, smart household and other places.
All products have signal output interface
Remote monitor of the equipments is realized by complete systematic solution.
To meet the needs of centralized control and management of various projects.



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Professional Tailor-made Systematic Air Purification Solution

1. **Primary Consultation**
   AQ will run professional site examination for the building'stype, size and decoration etc. so as to prepare an initial quotation.

2. **Free site air quality evaluation**
   Customize air purification solution by site test on PM2.5, Methanol and other pollutants which client cares.

3. **Customized Air purification solution**
   AQ will tailor-make air purification solution, including air volume calculation, equipment's selection, designs of installation position and air distribution as well as control methods.

4. **Service contract with systematical quotation**
   With our global distributor networking growing and quotation system getting well developed, AQ can reach more and more users by signing contract to ensure ever-satisfactory service.

5. **Product installation and Operation evaluation**
   Professional team to provide one-station service including: installation, technical consultation and running test, tec.

6. **Maintenance and Cleaning service**
   Regular inspectionon equipment by professionals sent by our loal distributor to ensure our air purification system can run in constant high efficiency.

7. **Guide for system operation**
   Provide user guide and Air quality report.

Air quality test



Installation guide



Cleaning service



AIRQUALITY

Certification

TOP 10 China Air Clean Brands

Cleantech Group — 2022 GLOBAL CLEANTECH100 COMPANY

Medical Sterilization Products Registration — Health Supervision Center of National Health Commission

Underwriter Laboratories Inc.	ISO 9001 ISO 14001 OHSAS 18001	Technischer Überwachungs-Verein	LMS Technologies, Inc	Conformite Europeenne
Low Voltage Directive	Shanghai key Laboratory of Computer Software Testing & Evaluating	Electro Magnetic Compatibility	Restriction of Hazardous Substances	Centre Testing International Group Co., Ltd.
Shanghai Institute of Metrology and Testing Technology	High-tech enterprises	China Pacific Insurance(group)Co.,Ltd Product Liability Insurance	Building Energy and Environment Testing Center of CABR	Shanghai Jianke Technical Assessment Of Construction Co.,LTD.
Air Filter TestingL aboratories, Inc	Guangzhou Institute Of Chemistry, Chinese Academy of Sciences Analyzing and Testing Center	Tongji University Heating and Ventilation and Air Conditioning Laboratory	United Testing Corporation	China-Japan Friendship Hospital Department of infection control
Shanghai Municipal Center For Disease Control & Prevention Shanghai Institutes Of Preventive Medicine	Guangzhou Institutes Of Microbiology Guangzhou Testing Center Of Industrial Microbiology	Shanghai Hygienic Permit for Disinfection Product manufacturer	United Nation Quality Detection	CCTEG China Coal Research Institute

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Famous Projects

AirQuality's products are widely used in high-end residential buildings, Grade A office buildings, star-rated hotels, hospitals, schools, municipal facilities and other construction fields. Our products have nearly 10,000 project cases in China. Famous cases include Yanqi Hotel Beijing where APEC was held in 2014, Hangzhou Xizi Hotel where G20 Summit was held, Beijing Stadiums for 2022 Winter Olympic Games, Beijing New Airport, artificial island of Hong Kong-Zhuhai-Macao Bridge, etc.


Beijing Winter Olympics Organizing Committee Office, Beijin, China


Beijin Daxing International Airport, Beijin, China


Qingdao Olympic Sailing Center, Qingdao, China


Artificial Island, Hong Kong-Zhuhai-Macao, China


Xizi Hotel, Hangzhou, China


Greenland Plaza, Xi' an, China


Yanxihu Hotel, Beijing, China

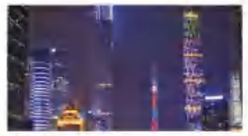

Shanghai Disneyland, Shanghai, China

City Landmark


Beijing City Sub-center, Beijin, China



Shanghai New World, Shanghai, China


East Tower, Guangzhou, China


Chengdu Fantasia Meinian Plaza, Chengdu,China

Shopping Mall


Tianjin CTF Finance Center, Tianjin, China


The Oriental Pearl Radio & TV Tower, Shanghai, China


UpperHills, Shenzhen, China


Mosaic Xi'an, Xi'an, China

Office Building


China Mereorological Administration, Beijin, China


Jin Mao Tower, Shanghai, China



ByteDance Beijing Headquarters, Beijin, China

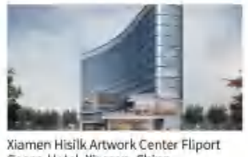

China Telecom, Sichuan, China

Hotel


InterContinental Shanghai Wonderland, Shanghai,China


Hotel Indigo, Dali, China


Crowne Plaza Hotel, Sanya, China


Xiamen Hisilk Artwork Center Fliport Cospo Hotel, Xiamen, China

AIRQUALITY

Public Transport


Beijing Metro Line 15, Beijin, China


WuSongKou International Cruise Terminal, Shanghai, China


Chengdu Shuangliu International Airport, Chengdu, China


Nanjing South Railway Station, Nanjing, China

Hospital


Zhengzhou Sixth People's Hospital, Zhengzhou, China


Beijing Ditan Hospital, Beijin, China


Shanghai Huadong Hospital, Shanghai, China


Huoshenshan Hospital, Wuhan, China

Educational Institution


Beijing No.4 Middle School, Beijin, China


Confucius Institute Headquarters, Beijin, China


Wellington College International Shanghai, Shanghai, China


Shanghai Jiao Tong University, Shanghai, China

High-end Apartment


Times South Bay Garden, Dongguan, China


Chengdu Wangjiang Mingmen, Chengdu, China


Lvcheng Yunqi Rose Garden, Hangzhou, China


COFCO Seaview NO.1, Shanghai, China

Others

Longhua Martyrs Memorial, Shanghai, China

Sheshan Observatory and Technology Park, Shanghai, China

Gymnasium Of Shaanxi Olympic Sports Center, Xi'an, China

Shandong Science and Technology Museum, Jinan, China

Overseas Projects

Standard Bank Johannesburg, South Africa

Green Classroom Project , Israel

City Centre Mirdif, Dubai, UAE

Crown Sydney, Sydney, Australia

Ewha Womans University Medical Center, Seoul, Korea

Itakura Hospital, Funabashi, Japan

Azizi Riviera Beachfront, UAE

Shrewsbury International Schools, Bangkok, Thailand

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