



- Installation
- Project Planning
- One Stop Maintenance
- Air Purification, Disinfection & Monitoring Total Solution

H1N1 Virus
 $\geq 99.95\%$

Staphylococcus
 $> 99.90\%$

Natural Microorganism
 $\geq 90\%$

Particles CADR
 $> 750\text{m}^3/\text{h}$

HCHO CADR
 $> 400\text{m}^3/\text{h}$

Smart Air Purification & Disinfection System Total Solution



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Authorized Exclusive International Market Distributor

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Freshingair Technology

COMPANY PROFILE

Derived from 20 Year's Professional Medical Technology

With 20 year's experience, Freshingair is one of the leaders in air purification & disinfection industry, and also a core contributor to China relevant national standards. Freshingair's products take 60% market share in China, and covers 99% hospital market. Quality and services are highly approved by customers. Now, with new upgrade of the matured technology and cloud technology, Freshingair products are aiming for all markets with medical grade technology, professional design, planning, installation, refurbishing and upgrading services and products applicable to central air condition system, fresh air system and other room air treatment applications.

Professional R&D Process System

Excellent product development process system with guidance by market demands. At the initial stage of product development, professional marketing research was carried out to acquire the big data of customer requirements; then the statistics is selected, sorted and analysed to decide the specifications and performance parameters to meet demands of more customers. Rigorous and scientific technology development plus very strict testing and validation ensures performance and quality of the products, which are far better than relevant national standards.

Professional R&D Team and Technology Capability

Most technicians in the R&D team have more than 20 years of excellent technology capability. With continuously research and break-throughs, a lot patents are filed for Freshingair products. In medical section: according to requirements in the special facilities such as ICU, OT, infectious room, and so on, respective products are developed and supplied; in non-medical section: following different facilities, season and environment demands, relevant product and services are developed and provided.

Professional R&D Team and Technology Capability

Led by the operating principle of "provide the most satisfactory products and services", we hereby promise: based on the most advanced, reliable and stable products, our services will be continuously improved to make sure our customers will have the best satisfactory services.



Medical Facility Air Purification and Disinfection Total Solution



Combined Air Purifier
(Wall Mounted)

Cross Infection in Hospitals

Hospital air contamination increases morbidity and mortality of patients, and in the meantime, puts medical personals at higher risk, increases medical costs, wastes social resources; on the other hand, costs of patients are increased as well.

Air Purification and Disinfection in Hospitals

Most hospitals don't adopt any air quality control measures in public places, and those who are applying are mostly traditional air purifiers with UV technology. A lot new technologies haven't been applied. The purifiers are working independently without centralized air quality monitoring and control. Service and maintenance of the purifiers are also effort-taking.

Total Solution

Freshingair products adopt Plasma Modular Design integrated with different purification and disinfecting technologies. Test results show the kill rate of natural viruses and staphylococcus are 99.90%. Build-in high accuracy air quality detectors monitor and display real-time data of PM2.5, TVOC, CO2, formaldehyde (HCHO), etc. Freshingair Smart Manage System provides remote diagnosis and control of the devices via APP, air data tracking and downloading, intuitive graphics analyzing and saving, etc. Once bad air quality is detected, the cloud system starts Freshingair products automatically to effectively reduce cross infection via air borne virus, protecting the health of both patients and medical personals, enhancing and maximizing infection control capabilities.

Application Range



OT, Infectious Ward, ICU, NICU, Therapy Ward, Prescription Room, Convalescent Ward, Inpatient Rooms, CSSD, Labs, Pathology Department, Diagnostic Center, Neonatal Pediatrics, etc.

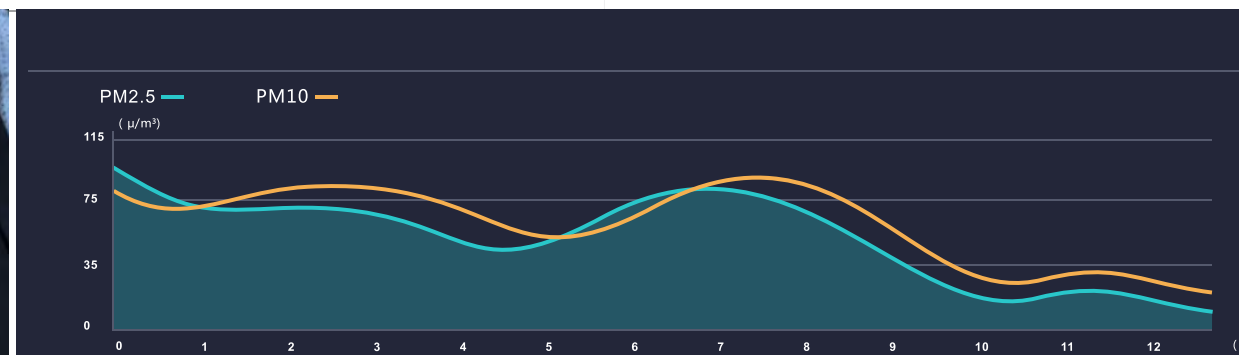
03 Smart Monitoring



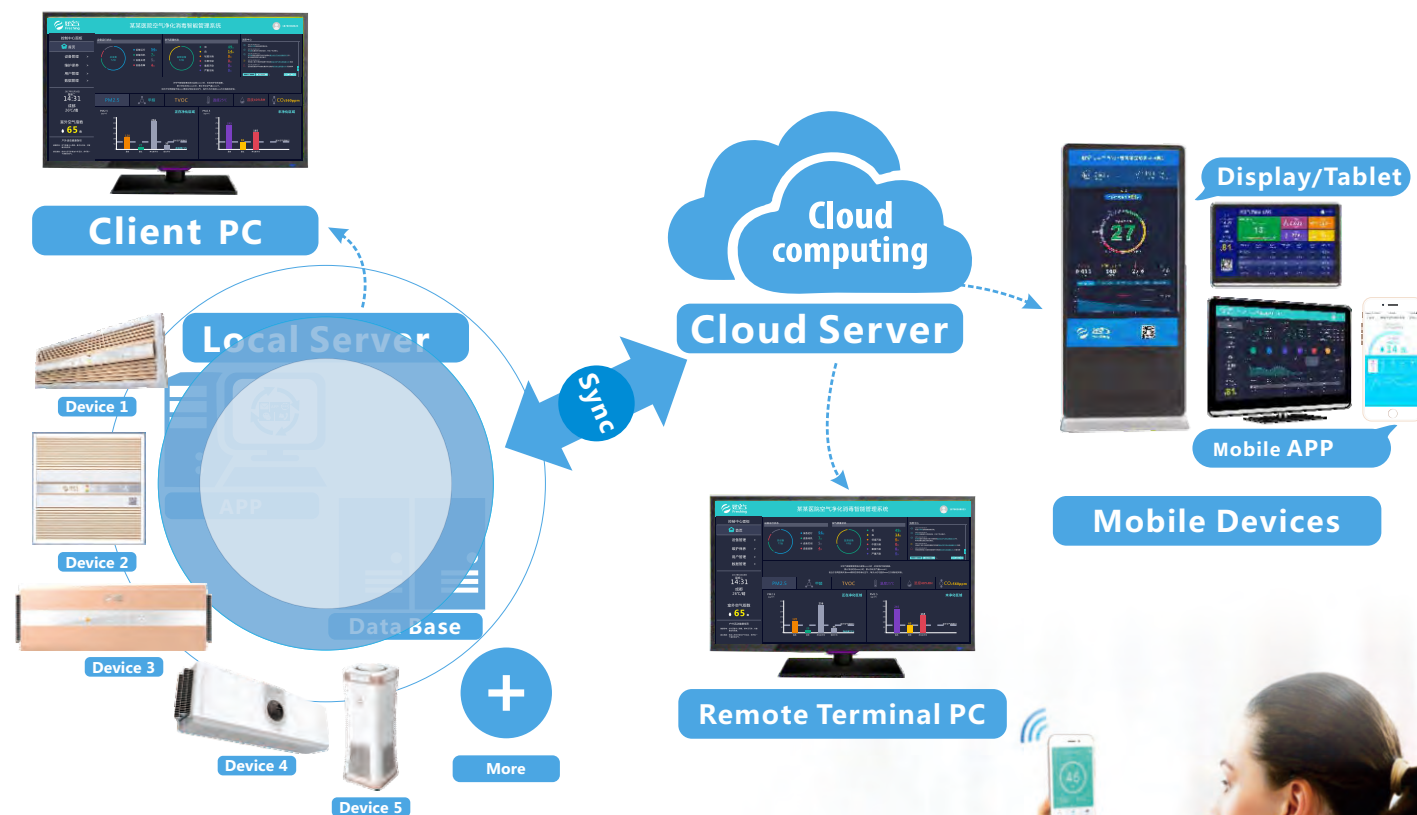
Cloud Service 04



Purification & Disinfection + Monitor & Manage Total Solution



Device	PM2.5 ($\mu\text{g}/\text{m}^3$)	HCHO (mg/m^3)	CO ₂ (PPM)	Temp. (°C)	Humidity (%RH)	Status
Outpatient-1	17	0.038	561	27.1	42%	Running
Outpatient-2	25	0.021	565	27.3	46%	Running
Outpatient-3	13	0.013	560	27.6	46%	Running



Remote Management Network Structure

Group customers may apply ethernet server

Web Graphics

Intuitive display history data of PM2.5, temperature, humidity, formaldehyde, O₃, TVOC, CO₂ with line chart, pie chart, bar graph, etc.

Data Analysis

Air is a must for human beings, while it is also a way for microorganisms to spread. A lot of microorganisms exist in plain air such as fungus, virus, antinomies, and so on. These microorganisms are one of the major causes of air pollution. Air borne microorganisms mainly come from ground and facilities, human and animal's respiratory tracts, skin and hair. They parasitize on aerosol and particles in air, and stay in air for a very long time and have very bad influence on our health.

After using thousands of devices and sampling the air for more than 100,000 times, the data shows PM2.5 has direct influence on the colonies of microorganisms. And then a new algorithm is developed to automatically control the running status of Freshingair devices.

Maintenance Reminder

According to the working time and status of the device, maintenance and service of the devices are reminded automatically. The reminding service are available for both cloud service and Ethernet service. Cloud service allows Freshingair to manage the maintenance status of the devices, while the Ethernet service helps the device manager to arrange a perfect maintenance schedule.

Maintenance Records

Users could view all maintenance and service information including history information, the time for the last and the next maintenance. Maintenance information are saved at local server and sync to cloud server every once a while.



SMART MANAGE SYSTEM

Freshingair Smart Manage System, adopting data analysis and computing, provides group management, realtime monitoring, graphics display, data downloading, bad air quality warnings, and so on. It also allows users to track the running time, parameters, maintenance and services of the devices.



SPECIFICATIONS

Manage Group
Device manage system manages devices in groups

Manage Device
Device inspect, batch turn on/off devices, purification & disinfection

Remote Diagnosis
Manage device info., remote diagnosis, troubleshooting, maintenance warnings, hardware updates, etc.

Download Data
Download data in MS Excel formart for saving and printing

Graphics
Display air quality data in graphics for more intuitive manage and control

Warnings
Provide warnings according to preset air quality parameters

ADVANTAGES

- 1

Inpatients
View air quality from air quality display terminal in the room
- 2

Medical Personels
Monitor air quality in every room and control every device according to the intuitive color and data change display
- 3

Patients & Others
View air quality of all pubic places in the hospital from display panel
- 4

Infection Control Department
View air quality and cross infection risks according to data display on the cloud server collected from every room at realtime

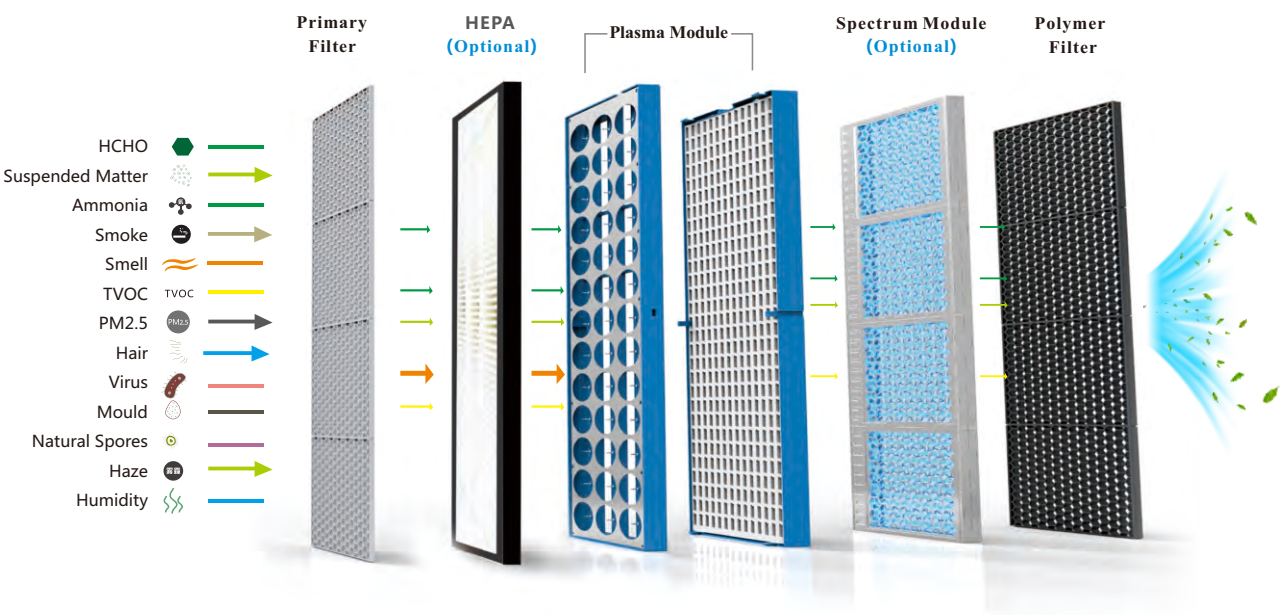


ADVANTAGES PLASMA AIR STERILIZER

Air purification and disinfection system is the most important among all air purification total solutions. It requires professional and high efficient purification, and in the meantime disinfection of air. Furthermore, it should provide customized solution according to acutal conditions and requirements.

FIVE-STAGE UPGRADED & PATENTED PURIFICATION & DISINFECTION

Professional five -stage filtration, purification and disinfection technology to efficiently kill airborne viruses, remove HCHO, TVOC and other hazardous gas. One time filtration rate of PM2.5 is 99%.



● Note: configuration might be different for different models.

PURIFICATION & DISINFECTION MODULES

- Primary Filter**
Collect large particles in air such as hair, suspended matters, dusts, etc.

Middle Filter
Filter are made of 100% synthetic fibre to filtrate small dust and other suspending matters.

Plasma Module
Generate huge amount of active oxygen ions, high energy radicals that very easily to oxidize microorganisms, mold, spores, protein and nucleic acid of virus and kill all kind of microorganisms.
- Spectrum Module**
Generate UV of 240 - 280nm that kills airborne virus effciently.

Polymer Filter
Remove and absorb smell, ammonia, TVOC, HCHO, etc.

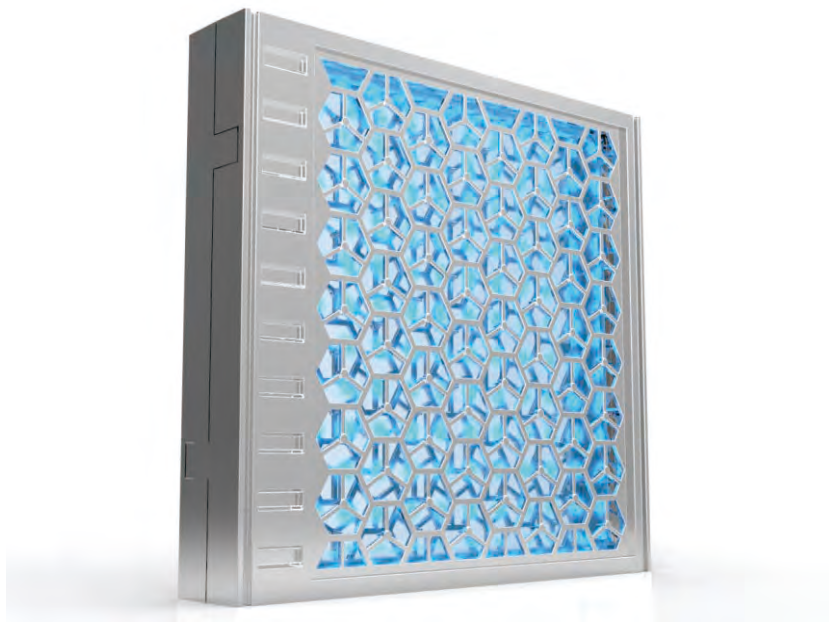
HEPA
Removes 99% of 0.1 μm and 0.3 μm particles.



DISINFECTION TECHNOLOGIES

High efficient, professional medical grade disinfection system.

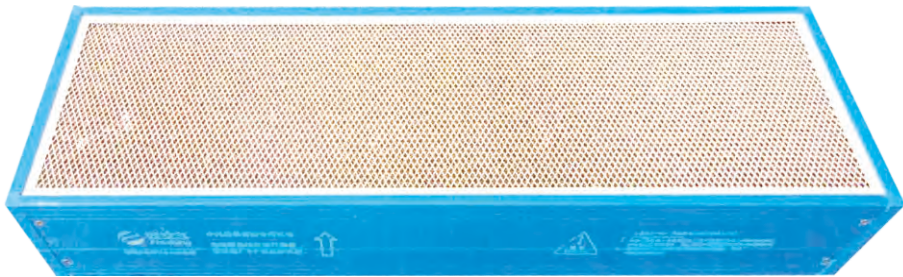
Kill rate of airborne virus are 99.90%.



Spetrum Module
Born to Kill Virus

20 Years' Experience in Medical Field

Adopts 240 - 280nm UV which works the best on destroying structure of virus, killing growing and regenerative cells and reaching perfect disinfection efficacy. In the meantime makes sure the internal environment of the device at an excellent conditon and efficiently prevent cross infection via flu, and other virus.



Plasma Module

Born to Kill Virus

Plasma Module Generate huge amount of active oxygen ions, high energy radicals that very easily to oxidize microorganisms, mold, spores, protein and nucleic acid of virus and kill all kinds of microorganisms. Formaldehyde and other hazardous organic molecules are decomposed to CO₂ and water under high energy electrons & radicals.



Product Parameters

Items	Plasma Air Sterilizer						
Model	KJF-Q100		KJF-B100	KJF-Y100	KJF-L150	KJ450F-X1	KJ1200F-L1
Room Size	According to AC	≤100m³	≤100m³	≤100m³	≤150m³	≤100m³	≤150m³
Purification	●	●	●	●	●	●	●
Spectrum Module	—	—	—	○	—	—	—
CO ₂ Monitor	○	○	○	○	○	○	○
Temp./RH Monitor	●	●	●	●	●	●	●
PM2.5 Monitor	●	●	●	●	●	●	●
HCHO Monitor	○	○	○	○	○	○	○
TVOC Monitor	○	○	○	○	○	○	○
Fresh Air	—	—	—	—	—	●	●
Installation	Central AC	Ceiling Mounted	Wall Mounted	Mobile	Free Standing	Wall Mounted Fresh Air	Free Standing Fresh Air
● Standard ○ Optional — N/A							

Test Report Parameters

Category	Items	Results	Standards	Inspection Institute
Particulates	Filtration Efficiency	High Efficiency	GB/T 18801-2015 Air Purifier	Guang Dong Detection Center of Microbiology
	Accumulated Purification	P4 (M _{Particle} ≥12000)		
	Purification Rate	>99.9%		
	Purifying Energy Efficiency	>6.7 m³/h*w		
HCHO	Purifying Energy Efficiency	>2.3 m³/h*w	GB/T 18801-2015 Air Purifier	Guang Dong Detection Center of Microbiology
	Energy Efficiency Class	High Efficiency		
Hazardous Gas	TVOC Removal Rate	>99.0%	GB/T 21551. 6-2010 Antibacterial And Cleaning Function for Household And Similar Electrical Appliances — Particular Requirements of Air Conditioner	Guang Dong Detection Center of Microbiology
	Benzene Removal Rate	>99.6%		
	Xylxl Removal Rate	>99.7%		
	Ammonia Removal Rate	>99.2%		
	O ₃ Removal Rate	<0.025 mg/m³		
Micriroorganisms	Natural Spores Avg. Kill Rate	>97.58%	Regulation on Decontamination Technique	CDC of China Railway No.2 Group Ltd
	Staphylococcus Avg. Kill Rate	>99.91%		
	H1N1 Virus	>99.95%		
Performance	Life Span	>30000h	MTBF Test Standard	Changhong Electric Co., Ltd

Note: Product design and parameters might be changed without further notice. In kind prevail.



Plasma Air Sterilizer (KJF-B100) Series

Wall Mounted

Plasma Air Sterilizer

Model: KJF-B100	
Ambient: Temp.: -10°C-40°C RH: ≤90% Air Pressure: 86kPa-106kPa	
Installation: Wall Mounted	Dimension: 960x320x200mm
Room Size: ≤100m³	Power Input: ≤55W
Noise dB(A): ≤53	Connection: WiFi, Bluetooth
Control: Remote, Mobile APP Display Terminal	Net Weight: Appox. 18Kg

- 

Super Quiet

Super quiet design with low power consumption makes it environment friendly.
- 

PM2.5 Filtration

Through combination of Primary Fitler, Middle Filter, Plasma Module, Cumulate Clean Mass(CCM): P4 (top level).
- 

Disinfection

99.90% kill rate of natural spores and Staphylococcus.
- 

Mobile APP

Remote monitoring air quality in every room and control of all devices.
- 

Cloud Service

Through cloud service, users are able to acquire running status of devcies, colletive management of air quality data, remote device mornitoring and maintenance management, and remote data downloading and analysing.

Installation: Mounted on wall, without any pipelines.



Plasma Air Sterilizer (KJF-Y100) Series

Mobile

Plasma Air Sterilizer

Model: KJF-Y100	
Ambient: Temp.: -10°C-40°C RH: ≤90% Air Pressure: 86kPa-106kPa	
Installation: Mobile	Dimension: 300x300x960mm, 15Kg
Room Size: ≤100m³	Power Input: ≤50W (Single Module)
Noise dB(A): ≤50	Connection: WiFi, Bluetooth
Control: Remote, Mobile APP Display Terminal	Net Weight: Appox. 15Kg

- 

Super Quiet

Super quiet design with low power consumption makes it environment friendly.
- 

Shared Economy

Freely move to different rooms for lower cost.
- 

PM2.5 Filtration

Through combination of Primary Fitler, Middle Filter, Plasma Module, Cumulate Clean Mass(CCM): P4 (top level).
- 

Disinfection

99.90% kill rate of natural spores and Staphylococcus.
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Through cloud service, users are able to acquire running status of devcies, colletive management of air quality data, remote device mornitoring and maintenance management, and remote data downloading and analysing.

Installation: Free stading with castors for moving around.