

ESP-Integrated Kitchen Exhaust Hood



China-Shanghai Office

Address: Building 17, 189 Fulianer Rd, Baoshan District, Shanghai, China.

Tel: +86 21 6139 7200

Email: info@airquality.com

AQT International Business Department

Address: Building 17, 189 Fulianer Rd, Baoshan District, Shanghai, China.

Mobile: +86 180 4973 7606

Email: info@airquality.com

www.airquality.com

AirQuality E-filter
No Replacements, Energy Saving



Company Profile

AirQuality Technology was established in 2011 with an investment of approximately USD 15 million. 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 Electrostatic 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 distribution 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!".

Showroom



Production Line



R&D Lab



Certification



Conformite Europeenne



Electro Magnetic Compatibility



Low Voltage Directive



Certification of China Environmental Protection Product



China Pacific Insurance(group)Co.,Ltd Product Liability Insurance



ISO 9001 ISO 14001 OHSAS 18001

Solve Kitchen Fume at the Source




**Purifies Smoke
Removes Grease**


Ductwork Saving


Easy Installation



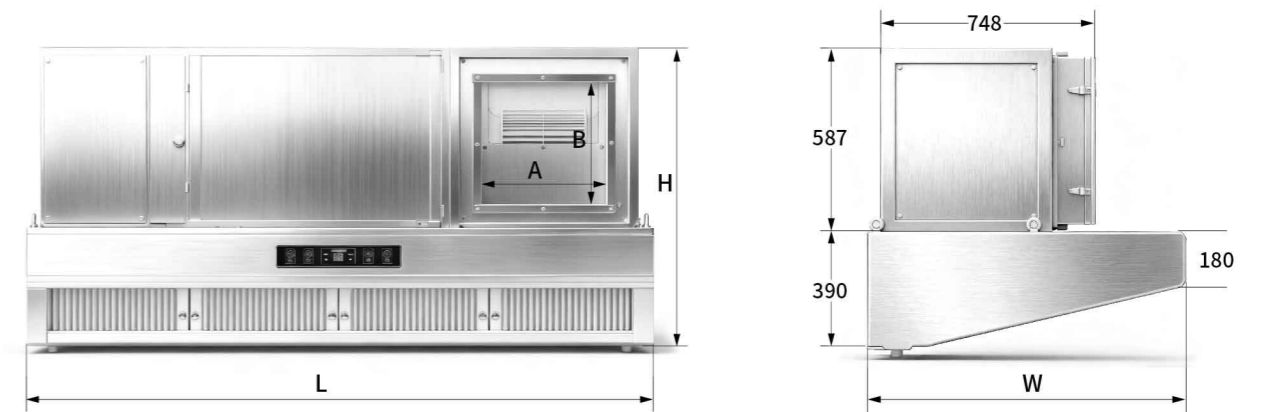
Product Parameter

Model	FKH11-16	FKH11-18	FKH11-20	FKH11-22	FKH11-24
Processed Air Volume(m ³ /h)	3200	3600	4000	4400	4800
Purification Efficiency	98%				
External Static Pressure (Pa)	200				
Sound Pressure Level dB (A)	80				
Input Power (V/Hz)	380/50				
Rated Power (W)	ESP	280	280	280	280
	Fan	1100	1100	1500	1500
Dimension (L*W*Hmm)	1600*1100*977	1800*1100*977	2000*1100*977	2200*1100*977	2400*1100*977
Equipment Weight (kg)	210	217	259	267	275
Function of Touch Screen	One - Touch Activation From a Distance, Power On/Off, Purification On/Off, Off Delay				
Maintenance Space (mm)	500				

Model	FKH11-UV16	FKH11-UV18	FKH11-UV20	FKH11-UV22	FKH11-UV24
Processed Air Volume(m ³ /h)	3200	3600	4000	4400	4800
Purification Efficiency	98%				
External Static Pressure (Pa)	200				
Sound Pressure Level dB (A)	80				
Input Power (V/Hz)	380/50				
Rated Power (W)	ESP	360	360	360	360
	Fan	1100	1100	1500	1500
Dimension (L*W*Hmm)	1600*1100*977	1800*1100*977	2000*1100*977	2200*1100*977	2400*1100*977
Equipment Weight (kg)	212	219	261	269	277
Service Life of Lamp (h)	9000				
Function of Touch Screen	One - Touch Activation From a Distance, Power On/Off, Purification On/Off, Off Delay				
Maintenance Space (mm)	500				

Model	FKH13-16	FKH13-18	FKH13-20	FKH13-22	FKH13-24
Processed Air Volume(m ³ /h)	3200	3600	4000	4400	4800
Purification Efficiency	98%				
External Static Pressure (Pa)	200				
Sound Pressure Level dB (A)	80				
Input Power (V/Hz)	380/50				
Rated Power (W)	ESP	280	280	280	280
	Fan	1100	1100	1500	1500
Dimension (L*W*Hmm)	1600*1300*977	1800*1300*977	2000*1300*977	2200*1300*977	2400*1300*977
Equipment Weight (kg)	217	225	268	276	284
Function of Touch Screen	One - Touch Activation From a Distance, Power On/Off, Purification On/Off, Off Delay				
Maintenance Space (mm)	500				

Model	FKH13-UV16	FKH13-UV18	FKH13-UV20	FKH13-UV22	FKH13-UV24
Processed Air Volume(m ³ /h)	3200	3600	4000	4400	4800
Purification Efficiency	98%				
External Static Pressure (Pa)	200				
Sound Pressure Level dB (A)	80				
Input Power (V/Hz)	380/50				
Rated Power (W)	ESP	360	360	360	360
	Fan	1100	1100	1500	1500
Dimension (L*W*Hmm)	1600*1300*977	1800*1300*977	2000*1300*977	2200*1300*977	2400*1300*977
Equipment Weight (kg)	219	227	270	278	286
Service Life of Lamp (h)	9000				
Function of Touch Screen	One - Touch Activation From a Distance, Power On/Off, Purification On/Off, Off Delay				
Maintenance Space (mm)	500				



Instant Fume Capture with Ultra-Strong Suction



Wide Fume Capture Zone – Lock in Smoke, Prevent Leakage

The hood covers a broader capture area, containing smoke immediately as it rises from the wok—no more drifting or escape.



Rapid Suction During High-Heat Cooking

Ultra-powerful suction instantly draws smoke and fumes generated by hot oil and vigorous stir-frying, leaving your kitchen smoke-free, even during the most intense cooking.



UV Odor Removal – Say Goodbye to Unpleasant Smells

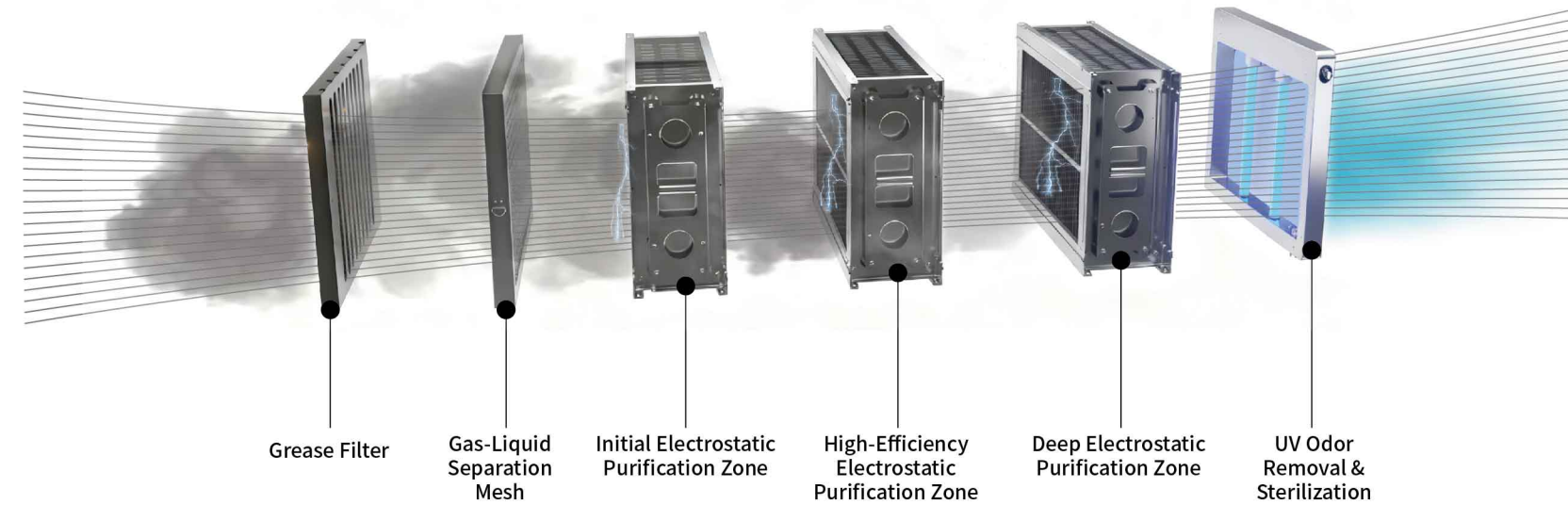
UV-C odor elimination technology removes pungent odors while retaining the natural aroma of ingredients.



High-Efficiency Purification – Reduce Risk and Maintenance

Exceptional filtration prevents grease buildup in downstream ducts, lowering maintenance needs, avoiding environmental fines, and minimizing complaints. Integrated smart power management and AirQuality Technology's anti-electric-scorch technology further reduce fire hazards.

High Filtration Efficiency Extended Maintenance Cycle



Grease Filtration Technology

The centrifugal design of the grease filter spins smoke at high speed, separating large grease particles through gas-solid inertia, reducing fire risk from grease accumulation.



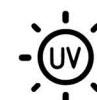
Gas-Liquid Separation Technology

The metal mesh captures droplets from the air via inertia, interception, and coalescence, ensuring efficient separation of liquid from gas.



Three-Stage Electrostatic Purification

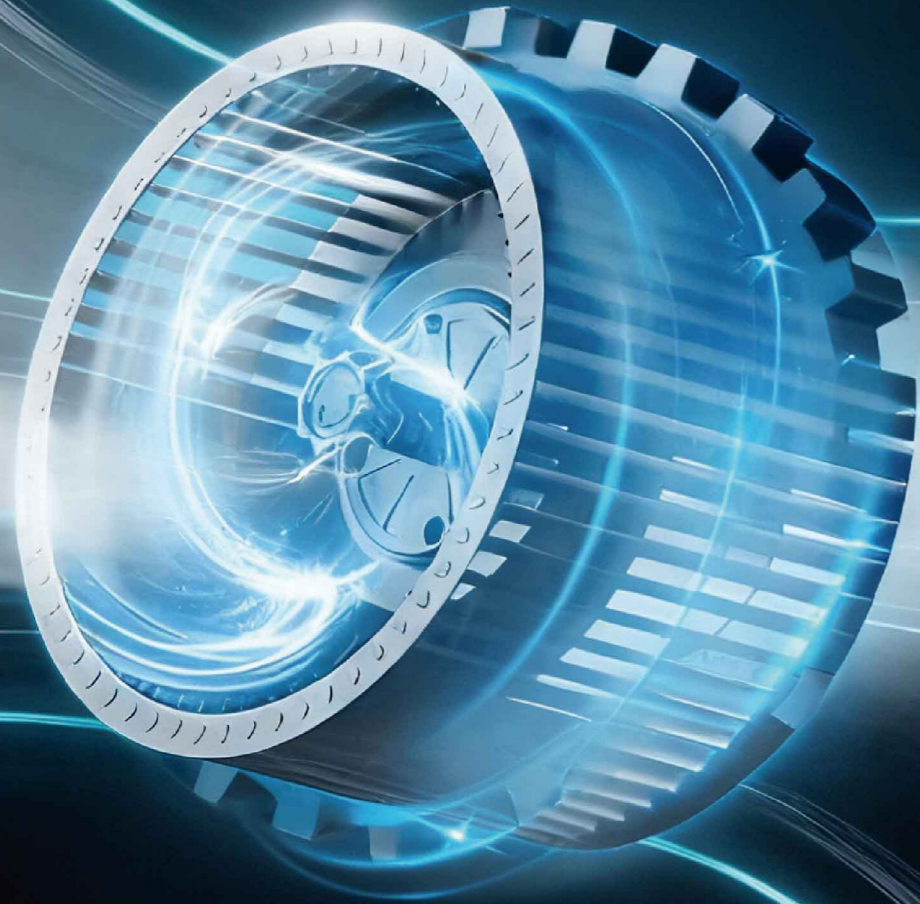
Three large-area zones (Initial + High-Efficiency + Deep)* capture 0.1–10 μm particles with filtration efficiency >98%, ensuring visually fume-free emissions and extended maintenance cycles.



UV Odor Removal Technology

254nm UV-C breaks down fat molecules, while 185nm ozone oxidizes alcohols, esters, aldehydes, and aromatics into harmless compounds, leaving the air odorless.

Low-Noise Energy-Efficient Fan



Quiet & Energy-Saving

External rotor fan reduces vibration and noise while minimizing transmission loss for energy efficiency.



High Temperature & Low Maintenance

Built to withstand 180 °C heat, oil, and moisture, with maintenance-free bearings and corrosion-resistant seals.



**Powerful Suction
Rapid Smoke Extraction**

Powerful airflow instantly removes cooking fumes, keeping your kitchen fresh and odor-free.



**Strong Ventilation
Smooth Flow**

With over 200 Pa residual pressure and a 30 m external duct, smoke flows smoothly without blockage or backflow.

Gesture-Control Smart Panel



Wave Control, Zero Touch

Hands-free operation keeps surfaces clean and grease-free.



Built-in Infrared Sensor

Smart detection prevents accidental activation while cleaning.



Button-Free Convenience

Operate easily without looking up—smooth and effortless control.



Lighting & Purification Functions

Delay shut-off ensures clean air and removes lingering smoke.



AirQuality E-filter
No Replacements, Energy Saving

High-CRI LED
See Your Cooking Clearly



True-to-Life Color Rendering

Flicker-free, soft light that's easy on the eyes—accurately reveals the true colors of ingredients so you can distinguish raw from cooked at a glance.



Moisture & Explosion Resistant

Aluminum alloy housing + tempered glass cover ensures protection against smoke, water, and high heat.



Fog-Resistant & Penetrative

Light easily penetrates cooking fumes without obstruction, making food preparation effortless.



Energy-Saving LED

Low power consumption, efficient heat dissipation, long lifespan, stable operation, and low-voltage safety.

AirQuality E-filter
No Replacements, Energy Saving



Premium Stainless Steel
Durable & Rust-Free



Laser Welding Technology

Seamless construction prevents smoke leakage, ensuring reliable operation.



Surface Finishing Options

Brushed or polished finishes make cleaning effortless while maintaining a professional look.



Thickened Steel Plates

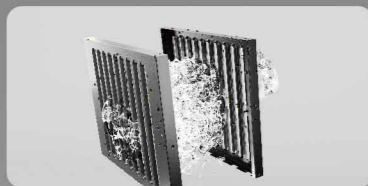
High hardness and impact resistance ensure long-term durability without deformation.



High-Quality Stainless Steel

Corrosion-resistant, rust-proof, heat-resistant—extends the lifespan of your equipment.

Easy Cleaning Convenient Maintenance



Detachable Modular Design
Components can be taken apart for effortless cleaning.



Stainless Steel Ion Cell
Cell is easy to soak and clean with alkaline solution.

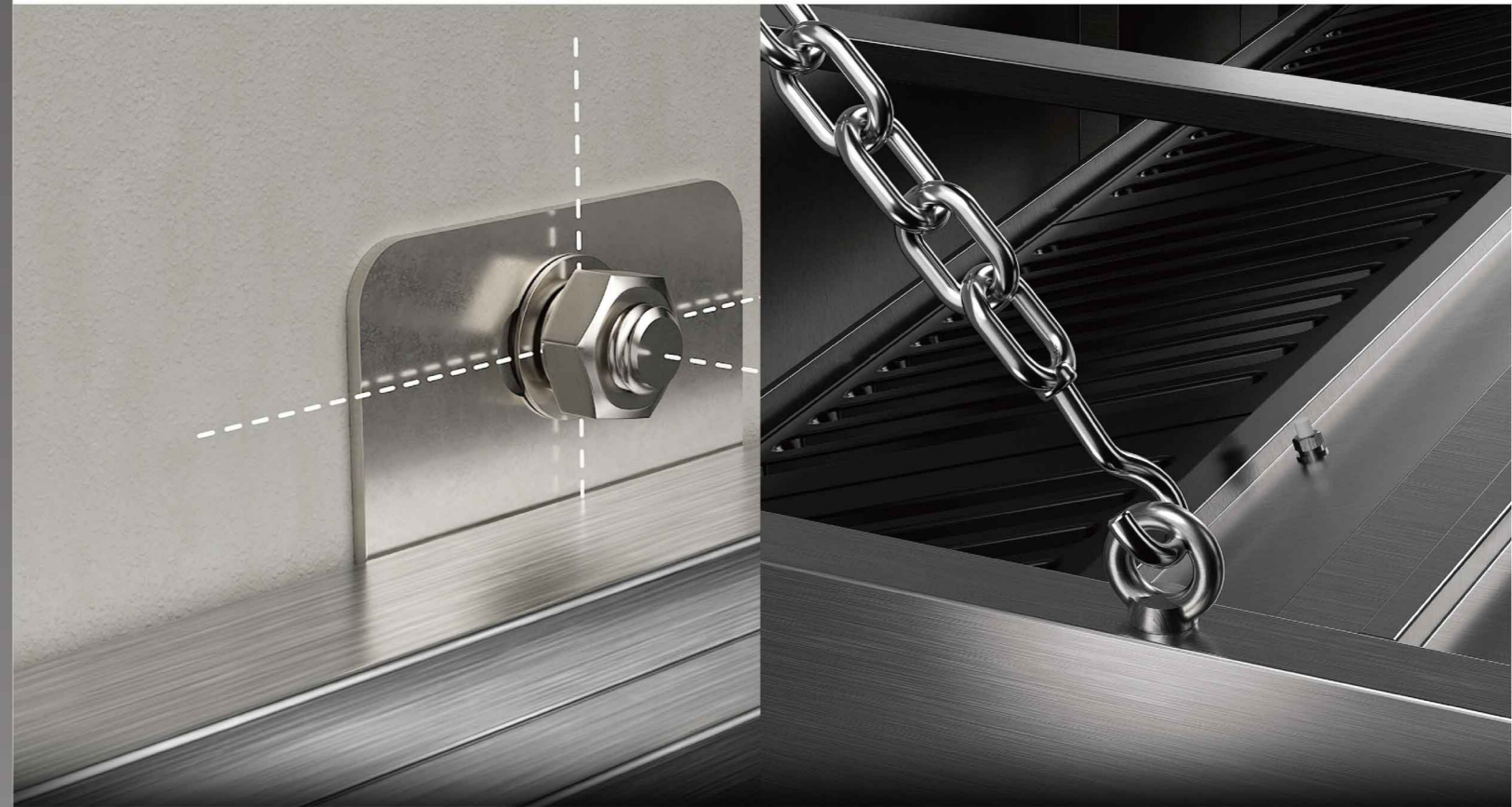


Safe, Anti-Cut Design
No worries about hand safety during cleaning.

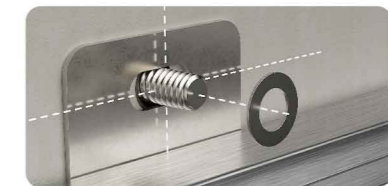


Low Maintenance Ducts
Less frequent cleaning reduces long-term operating costs.

Simple Installation Fully Integrated



No complex ductwork required, reducing kitchen installation costs.



Wall-mounted with expansion bolts and hook-on design for quick setup.



Modular design allows unlimited expansion—connect as many units as needed.



Operates like a standard household range hood—intuitive, no training required.

Flexible Installation

Single or Multi-Unit Configuration

▼ Single Unit



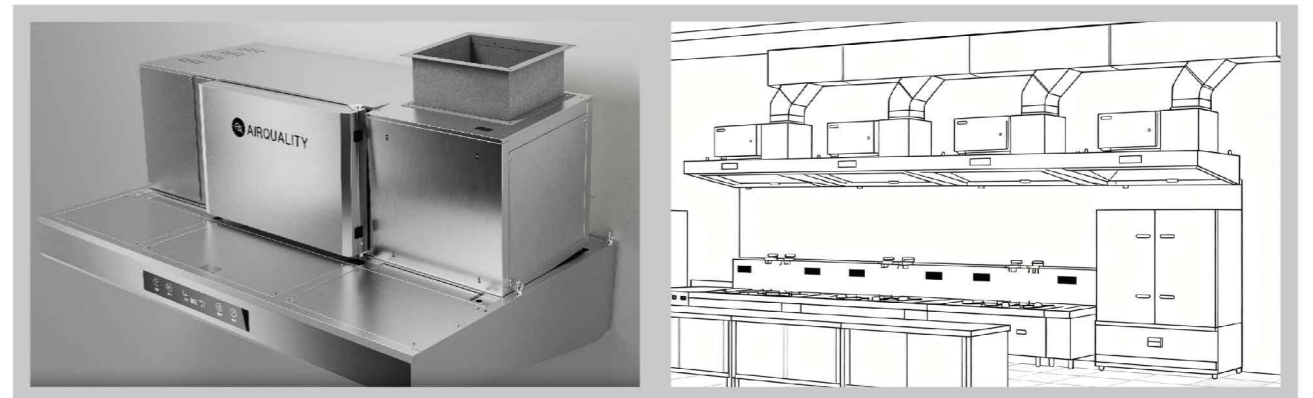
▼ Multi-Unit Combination



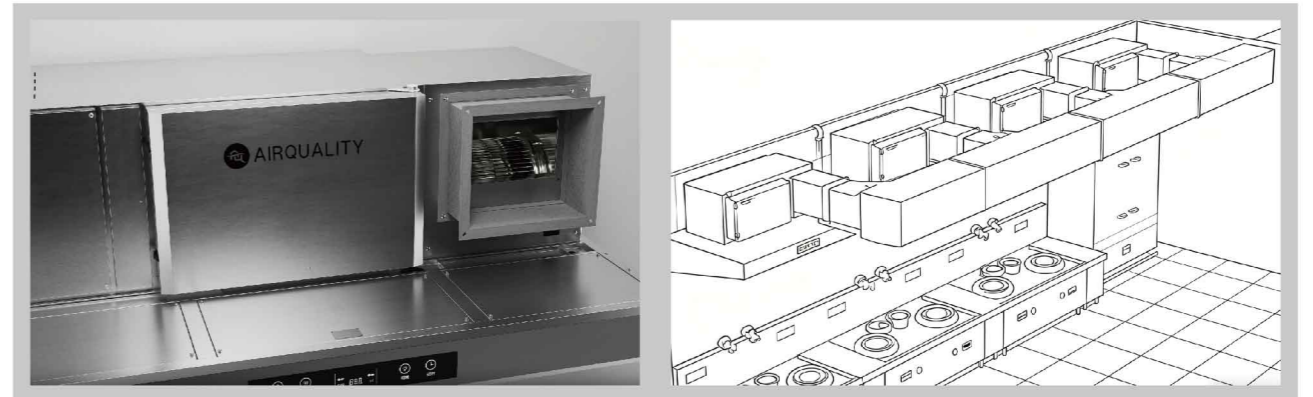
Flexible Installation

Adjustable Air Outlet Orientation

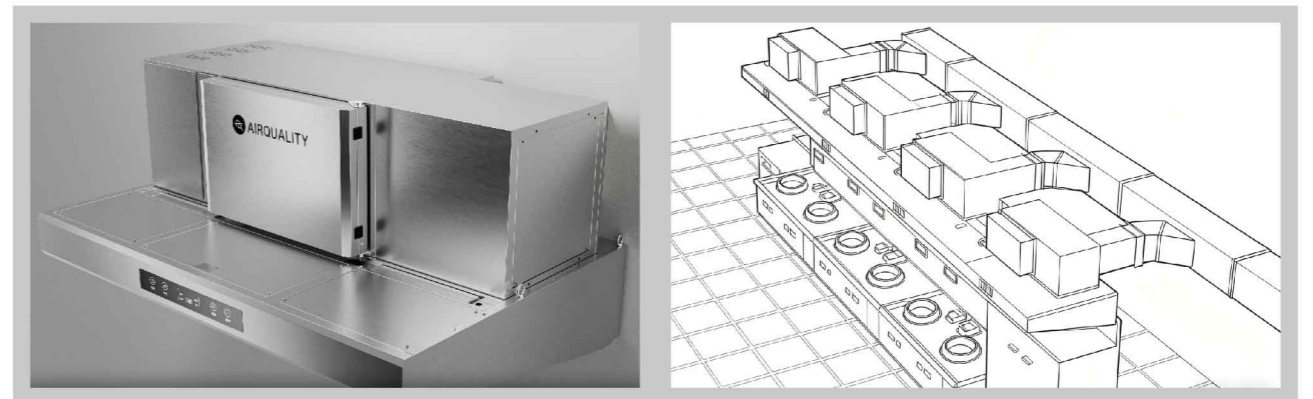
▼ Top Exhaust



▼ Front Exhaust



▼ Rear Exhaust

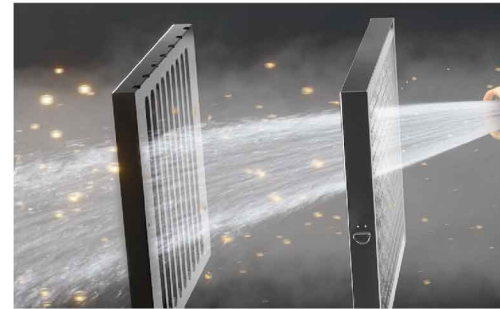


AirQuality Technology Cleaning & Maintenance Guide

Pre-Filter (Grease Filter) Low-Pressure Rinse

Use a spray gun to wash both sides of the filter with low-pressure water in a back-and-forth motion.

Continue rinsing until no visible grease or residue remains.



ESP Cell – Low-Pressure Rinse

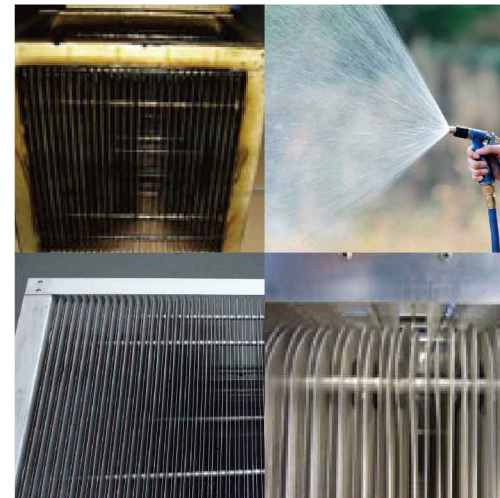
Power Off: Disconnect power and remove the ion cell.

Soak: Immerse the ion cell in a 1–2% detergent solution (water level just above the cell). Keep water temperature below 70° C. Soak for about 2 minutes.

Rinse: Wash thoroughly with low-pressure clean water until all contaminants are removed.

Dry: Use a blower or allow the ion cell to air dry completely.

Inspect & Reassemble: Check for deformation or damage, realign collecting plates, and reinstall properly.



Notes:
If arcing or continuous indicator flashing occurs upon restart, the ion cell may still be damp. Turn off the power and dry completely before reconnecting. It is recommended to maintain a regular cleaning and inspection log to ensure long-term performance.

Odor Control Module Maintenance

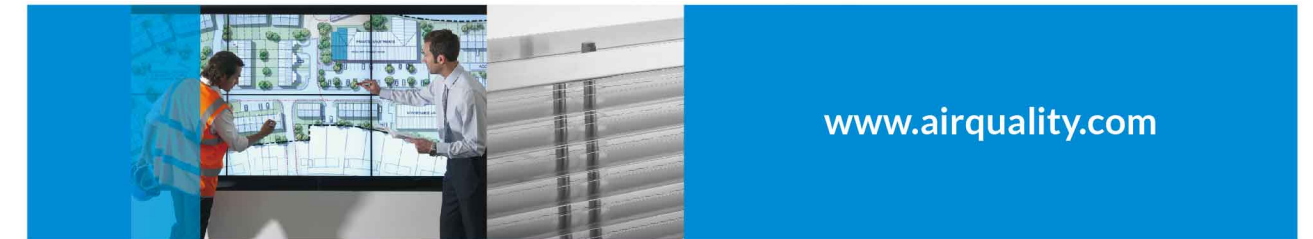
Cleaning: Remove the UV lamp module and gently wipe the lamp housing and tubes with a soft cloth until clean. Allow to dry before re-installation.

Lamp Replacement: Remove the UV lamp module, detach the old lamps from the retaining rings, and replace them with new ones. Ensure all lamps are securely fastened before reassembling.



Note: For optimal purification efficiency, safety, and stable operation, always use original AirQuality Technology's UV lamps.

After-sales Service



Installation Instructions

- Overall planning and design: Mainly includes equipment standards, layout and design, the planning of peripheral equipment based on the needs for each customer, as well as integrated planning of diversified product characteristics
- Provide real and effective cases for reference
- Provide dealers with telephone or on-site technical support about the equipment installation at the medium stage of the project and project acceptance at the final stage of the project

After-sales Service

- All-round technical services
- Quality assurance: AirQuality makes a commitment to providing a one-year free warranty for the whole machine, and paid maintenance services during the service life of the equipment
- Provision of complete spare parts: Provide reasonable quotation and delivery time of the parts which customers demand. The equipment shall be tested and checked by the quality department to ensure their quality before shipment
- Complete operation manual and installation drawings

Cleaning and Maintenance

A well-designed repair and program is the key to the long and efficient operation of the equipment, with the help of our preventive measures in maintenance and the characteristics of rapid emergency response.

We can ensure that our customers' equipment is running normally all the time and it is used efficiently.

Project Cases



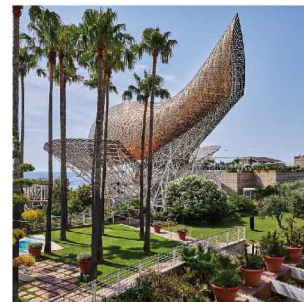
Crown Sydney, Sydney, Australia



Municipal Project, Madrid, Spain



Royal Plaza, Sydney, Australia



Mandarin Oriental Hotel, Barcelona, Spain



Municipal Project, Madrid, Spain



Kitchen Exhaust Purification Project, Rwanda



Nestlé Office, Beijing, China



Decoration Project, Trondheim, Norway



AppsFlyer Office, Beijing, China



Power Plant Project, Pakistan



ExxonMobil Office, Shanghai, China

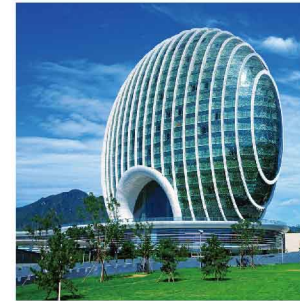


Clariant Chemicals Office, Shanghai, China



Chinese Embassy, Colombo, Sri Lanka

Project Cases



Yanqi Hotel, Beijing, China



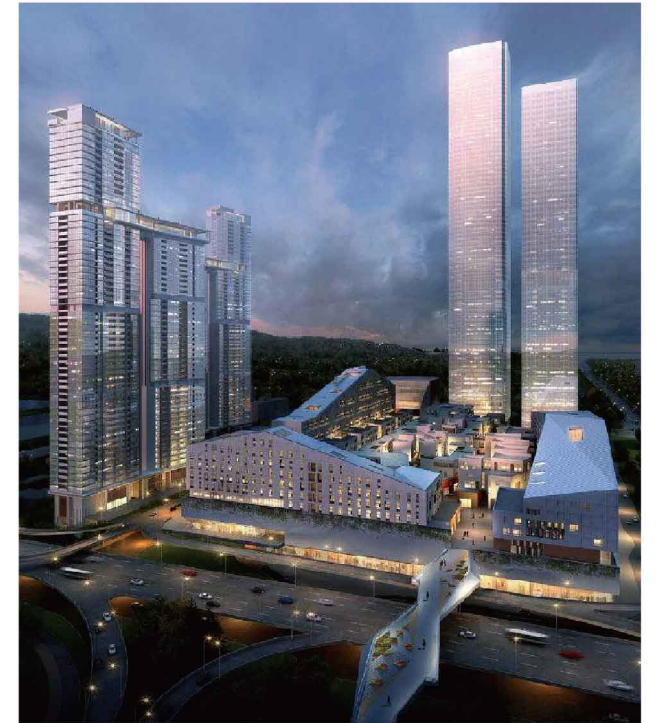
Xizi Hotel, Hangzhou, China



Artificial Island, Hong Kong-Zhuhai-Macao, China



Shanghai Disneyland, Shanghai, China



Upper Hills, Shenzhen, China



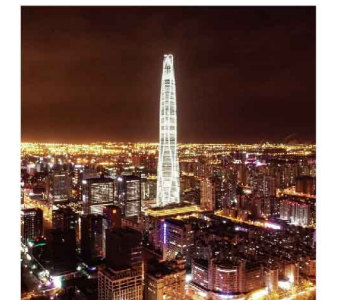
Greenland Plaza, Xi'an, China



Haitian Center, Qingdao, China



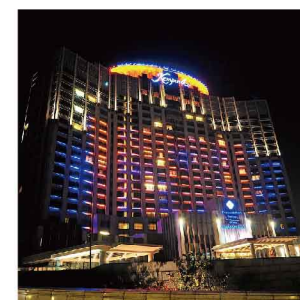
East Tower, Guangzhou, China



CTF Finance Center, Tianjin, China



InterContinental Shanghai Wonderland, Shanghai, China



Kempinski Hotel, Suzhou, China



Hilton Yushan Lake, Suzhou, China



Crowne Plaza Hotel, Sanya, China