

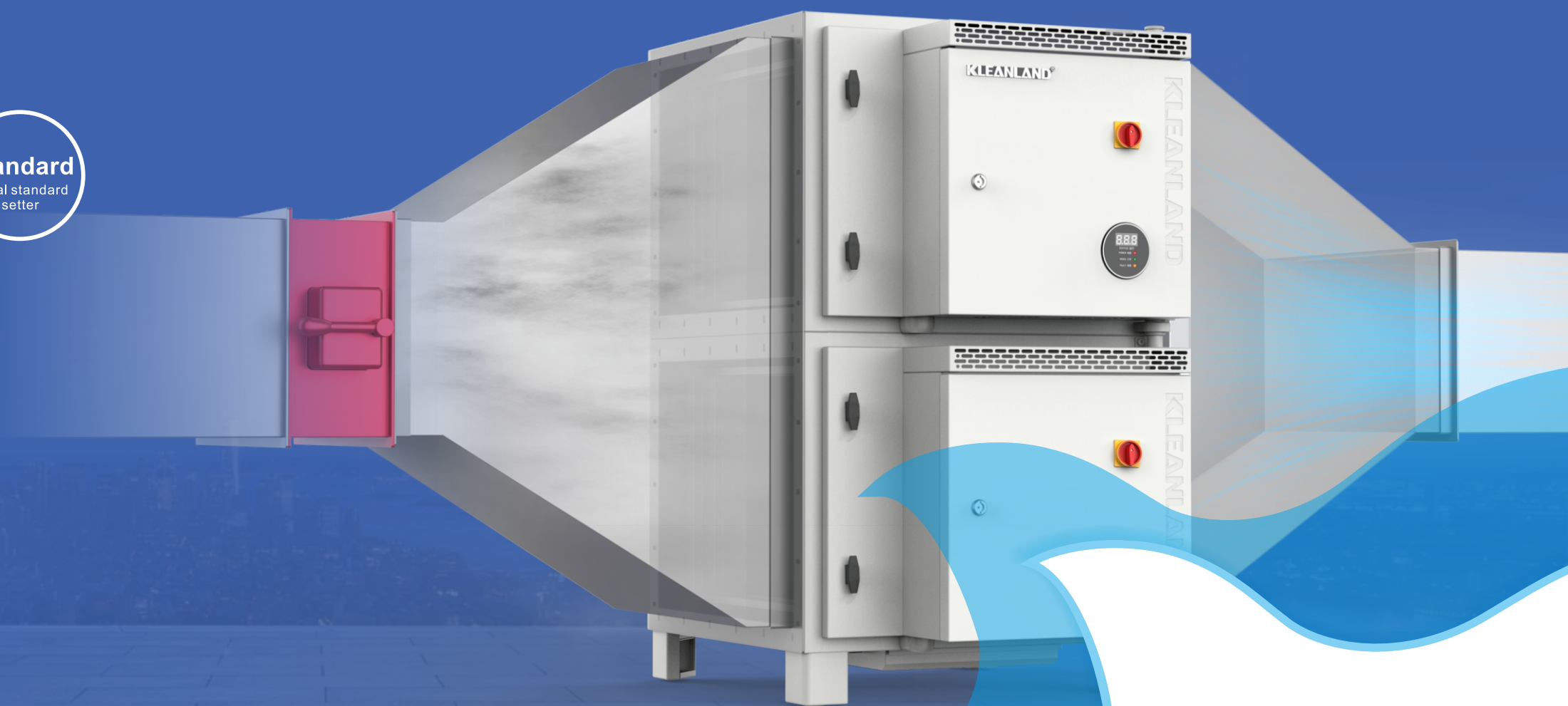
WE CLEAN THE AIR



220⁺ pcs
National Patents

86
Exported to 86 countries

Standard
Local standard setter



Brand Owner: KLEAN Environmental Technology Co., Ltd
Add.: Building 4, Leagure Science Park of RITS, No.99, Taoyuan East Road, Shishan Town, Nanhai District, Foshan City, Guangdong, China.

Manufacturer: KLEAN Environmental Equipment Co., Ltd
Add.: Building 1, Building 2, No. 7, Hongxing Road, Yayao Town, Heshan City, Jiangmen, Guangdong, China.

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Electrostatic Precipitator (ESP)- Hybrid Filter

Oil, Grease & Smoke Filtration / SUS304 Hybrid Tube-Plate ESP Filter
Up to 98% Filtration Efficiency / Extended Manual Wash Cycle
Optional Odour Control Modules

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The rendering depicts the new headquarters of Klean's in Songgang, currently under construction, with an anticipated completion and acceptance by 2026.



Our Strengths

31⁺ yrs

Industry Experience

220⁺ pcs

National Patents

500⁺

Employees

5000⁺ m²

R&D Center

8000⁺ m²

Production Plant

200000⁺ sets/yr

Production Capacity



Electrostatic Air Filter Manufacturer Since 1992

Data as of Feb. 2024



Evolution of KLEAN ESPs’

1993

Hood with ESP Filte



1996

Duct Mounted ESP



2002

Pei Ho Street, Hong Kong SAR



1994

South Sea Fishing Village, Guangzhou



2001

Huashenghang Restaurant, Zhongshan



2002

Pei Ho Street, Hong Kong SAR



1992

A closed-loop control mechanism that utilizes solid-state power frequency high voltage transformer and SCR chopper converters was introduced. Arc suppression, constant current output, and protections against open circuit, short circuit, overload, etc were realized.

2003

High frequency HV power pack was developed based on high switching converter technology. Power factor of the HV power pack got improved and its size got reduced.

2012

Digital HV power pack with MCU embedded circuitry was designed and the control programme registered with the National Copy Right Administration.

2013

Digital display technology was introduced. Multiple operating modes selection and error visualization of the HV power pack were achieved.

2014

Output capacity of a single HV power pack reached 200mA/60kV. The HV power pack is becoming more "smarter" with IoT elements.

2016

Output capacity of a single HV power pack matrix reached >1000mA/50kV after parallel HV based distributed control mechanism was introduced. kCloud platform APP was launched.

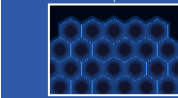
2020

HV Power Pack with IoT capabilities was put in the market.

Hexagonal Honeycomb-Cylindrical Honeycomb-Turbo Tubular- Hybrid Tube & Plate Filter Cells

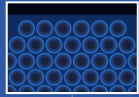
1993

1st GEN. Hexagonal Honeycomb Cell



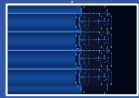
1997

2nd GEN. Cylindrical Honeycomb Cell



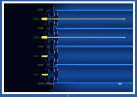
2008

3rd GEN. Cylindrical Honeycomb Cell with Improved Ionizers



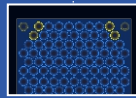
2013

4th GEN. Cylinder Honeycomb Cell with Wire Ionizers



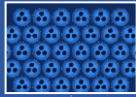
2018

5th GEN. Cylindrical Honeycomb Cell with Increased Collectors



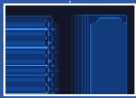
2019

6th GEN. Cylindrical Honeycomb Cell with Turbo Cells



2021

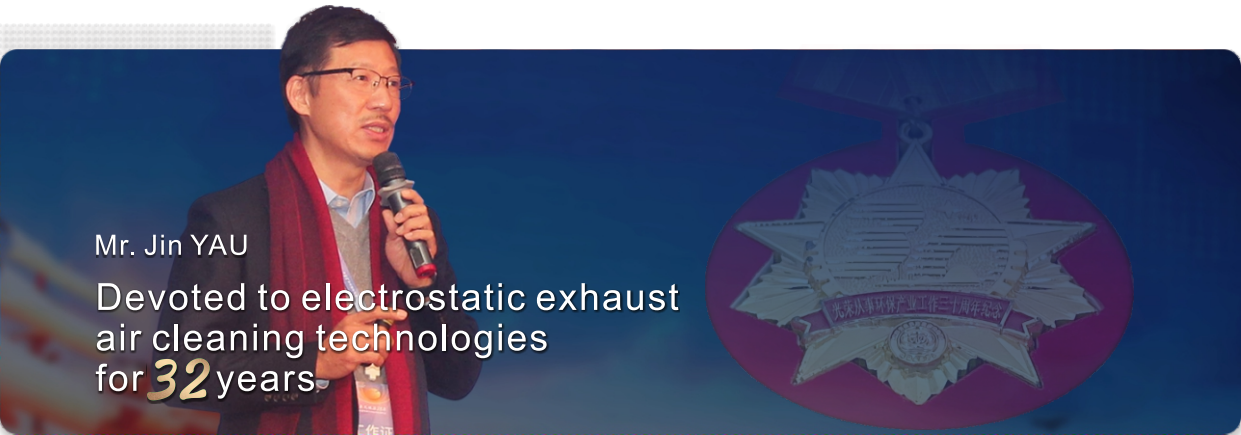
7th GEN. Hybrid Tube-Plate Filter Cell



KLEAN Timeline Since 1992



Founder’s Profile



Mr. Jin YAU
Devoted to electrostatic exhaust
air cleaning technologies
for **32** years



- 1985**
Graduated from the Radio Technology Department of South China University of Technology.
- 1989**
Started working in the field of dust collection using electrostatic precipitation technologies.
- 1992**
Invented a hood with electrostatic filters, revolutionizing the traditional inefficient way of removing oil smoke such as water films and filter screens.

Honors and Awards

“Star of Entrepreneurship and Innovation” of Guangdong Province

The 3rd Batch of “Leading Talents in Innovation” of Foshan City

“Outstanding Science and Technology Research Worker” of Nanhai District

Second-Class High-level Talents “of Nanhai District

“Star of Intelligent Manufacturing” in Foshan High-Tech Zone

The Third Prize of “Science and Technology Progress Award” of Nanhai District

Outstanding Entrepreneur of Environmental Protection Industry in Guangdong Province during the 12th Five Year Plan

Proudly Celebrating the 30th Anniversary in the Environmental Protection Industry



Mr. Jin YAU delivers a speech at 2019 National Seminar on the Development Pollution Prevention and Control Technologies for the Catering Industry



Mr Jin YAU speaks during panel discussion at the 5th High Quality Development Conference of Guangdong Environmental Protection Industry in 2023

Corporate Culture

Mission:
To build a cleaner future with technically advanced technologies.

Vision:
To be the global leader in the environmental protection industry.

Values:
Reinforce commitment to technological innovation and product quality. Enhance integrity and mutual support for customers and partners.

Code of Conduct:
Work together and pursuit integrity. Keep learning and be innovative. Put customers first and create values. Take the initiative and deliver results.

Staff Training System

Incorporating various skill-based courses and vigorous practices regarding products and services, customers and industries, corporate cultures and behavioral skills, etc. this staff training system has been providing continuous impetus to the development of our company.



Since its foundation, KLEAN’s mission has been to build a cleaner future with technically advanced technologies. By reinforcing our commitment to technological innovation and product quality and enhance integrity and mutual support for customers and partners, KLEAN strives to contribute to the improvement of living spaces for everyone.

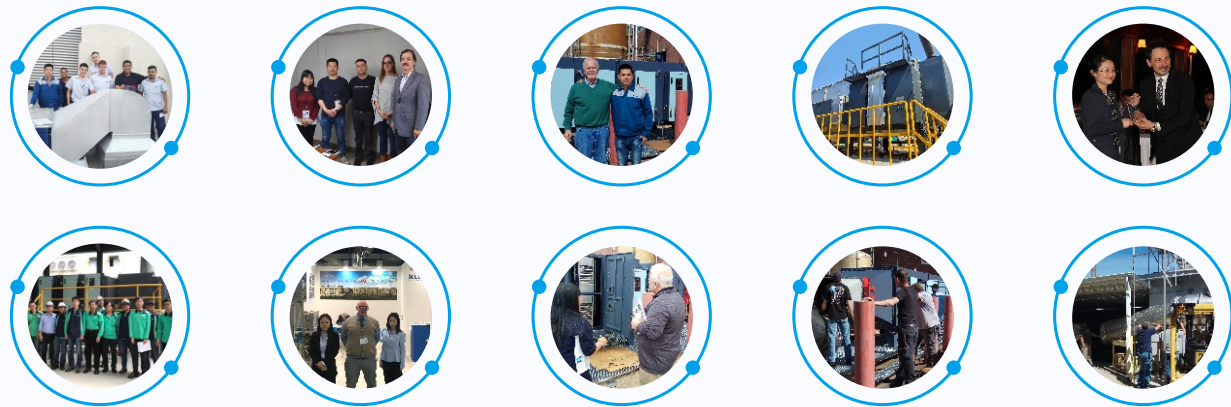
Extensive Sales & Service Network



We have partners in



We’ve witnessed our customers commitment on sustainability



Innovation Independence & Performance Excellence

200 Valid National Patents·45 Invention Patents
China National Certificates·UL Certificate·CE Certificate



Honors and Awards

A national HNTE(High and New Technology Enterprise)/A provincial Specialized and Sophisticated SME/A municipal Leading Enterprise in Subdivided Industries/a Hidden Champion of Foshan City Manufacturing Industry/A provincial Backbone Enterprise of Environmental Protection Industry/A municipal Benchmarking Enterprise for High-Quality Development of the Manufacturing Industry/A provincial Exemplary Enterprise in the Field of Intellectual Property Rights/A district Key Support Enterprise under the "Tengyun Program"/A municipal Key Enterprises for Intellectual Property Protection/A provincial Advantageous Enterprise in terms of Patents in Guangdong Environmental Protection Equipment Industry/A district National Hidden Champion in Nanhai Manufacturing Industry/A Leading Enterprise in Environmental Service Industry by the Southern China Cluster of State Environment Service Industry



Industry Leadership

The Municipal R & D Center for Oil Mist Exhaust Filtration and Collection Technology was established in our company in 2013 under the combined coordination and supervision of the Foshan Science and Technology Bureau, Foshan Development and Reform Bureau and the Foshan Bureau of Economy and Information Technology to promote the development of the entire industry. We've also chaired or actively involved in the drafting and revising of standards of various levels in these fields. Those standards include:

National Standards

- Participated in the formulation of the national standard of “**High output ultraviolet (UV) germicidal lamp**”
- Acted as a member of the technical review committee for the draft of the new national “**Emission Standards of oil fume for cooking**”.

Provincial Standards

- Acted as the Chief Drafter for the The Guangdong Provincial “**Standard for Electrostatic Cooking Fume Control Equipment**”.
- Participated in the reviewing of the Jiangsu Province “**Emission Standard of Air Pollutants for Catering Industry**”.
- Participated in the formulation of the Guangdong Province “**Emission Standard of Air Pollutants for Catering Industry**”.

Association Standards

- Participated in the formulation of “**The technical requirement for operation and maintenance of environmental protection facilities**”.
- Participated in the formulation of “**Technical guidelines for monitoring data collection of exhaust gas emission process (working conditions) in catering industry**”.
- Participated in the formulation of “**Highly efficient and stable cooking fume purification system —Part 2: Purification equipment technical requirements and test code**”.
- Participated in the formulation of “**High voltage power supply for cooking fume purifier**”.
- Participated in the reviewing of the “**Technical specification of operation and maintenance for electrostatic cooking fume purification equipment**”.

Dual Output Digital HV Power Pack

Arc will be suppressed within 0.0001 second

Patented Sampling of Secondary Voltage and Current, Voltage and Current put under Closed-Loop Control



8 Protections

VFD Power Output Capability

Soft Start-Up

Constant I Limited U Output

Arc Extinction

Open Circuit Protection

Short Circuit Protection

Multiple Over-Temp Protections

Overload Protection

KLEANLAND K3 HVMCU
V3.9 Operating System
Manage ESP with a PC or a smart phone

PC Client Control Access


Mobile Client Control Access

Data Sampling and Storage

High Precision

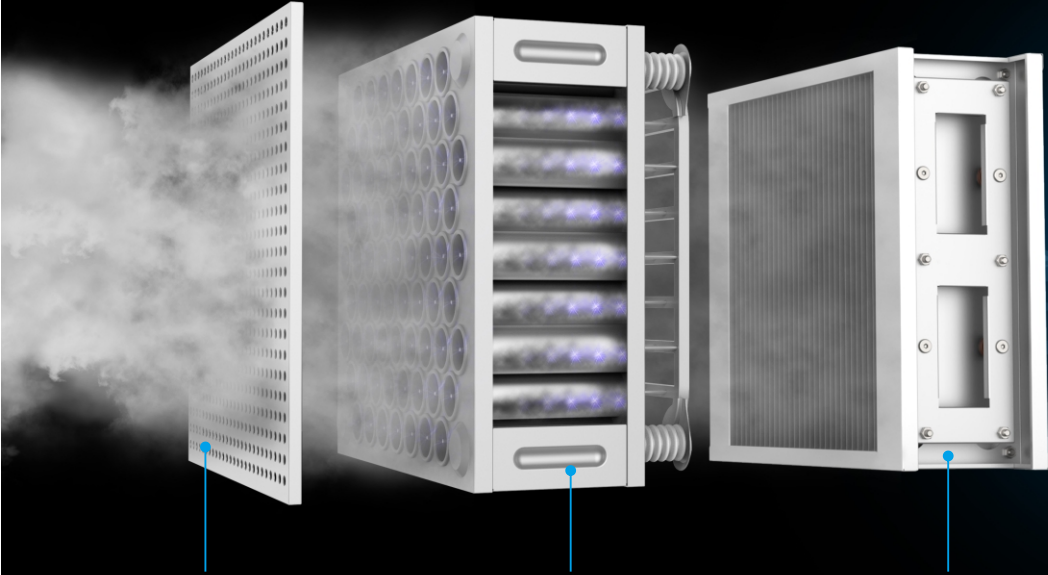
Secondary Current Setting

Multiple Operating Modes




Hybrid Tube-Plate ESP Filter

How it works
Pre-filtration + Stage 1 Filtration + Stage 2 Filtration

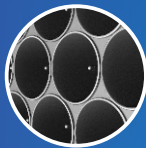


Perforated Pre-filter Stage 1 Filtration
“Power Sweeping” of Oil Mist Stage 2 Filtration
“Bristle Brushing” of Light Smoke

Why Tubular ESP Filter




Extended Manual Wash Cycle and Service Life
Wider 25mm electrode spacing and SUS 304 construction enable the tubular filter cell to endure higher voltage, heavier pollutants load and more rigorous cleaning for a longer period of time.

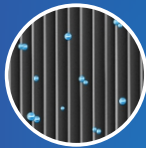


Higher Mechanical Strength and Collection Efficiency
When energized, the tubular honeycomb structure, where electrode spacing is uniform, promises higher electric field intensity and higher collection efficiency besides mechanical durability.

Eliminates up to 98% of Smoke Particles



Stage 1 Filtration
Energized by a higher high voltage, KLEAN tubular ESP filter delivers highly efficient removal of oil, grease and smoke particles.



Stage 2 Filtration
Energized by a lower high voltage KLEAN plate filter offers extra collection area that helps to reduce particle sneaking/reentrainment.

ESP with Hybrid Filter

SPECIALLY DESIGNED FOR COMMERCIAL COOKING ESTABLISHMENTS

Efficient

Safe

Stable

Durable

*Well-ventilated IP55 Electrical Enclosure

Pure Polyester Powder Coating

Key Locking Door Latch, Active Safety Feature

KLEAN Digital HV Power Pack

Perforated Prefilter

KLEAN Tubular Filter Cell

Drain Pan

KLEAN Plate Filter Cell

Rotary Isolator Active Safety Feature

Digital Display Panel

Feed-through Insulator

Limit Switch, Effective Safety Feature

98%

Highly Efficient

SUS304 Hybrid Filter

Dual HV Output

Compact Size

A36

Status Visualization

IP55 Electrical Enclosure

Triple Safeguard

Outdoor Friendly

Optional kCloud Service

*China Utility Model Patent No.: ZL201621055756.7

Highlights

Digital Display Panel

Intuitive interface with user-friendly display of all working statuses and operation alerts of the filter

Optional Digital Controller

Carry-on diagnostic scanner as well as parameter controller with status reading and configuration setting capabilities

Industrial Grade Insulator

HV feed-through Insulator with industrial grade creepage distance and built-in high voltage & interference resistance assembly

Optional Steam Auto Cleaning

Industrial steam cleaning solution to tackle heavy duty cleaning tasks in commercial settings with ease

Perforated Pre-filter

With perforations to allow air to disperse uniformly and filtration surfaces to stop large particles from passing through

***IP55 Rated Enclosure Vents**

Electrical enclosure is designed with IP55 rated vents to guarantee the all-weather compatibility of the unit

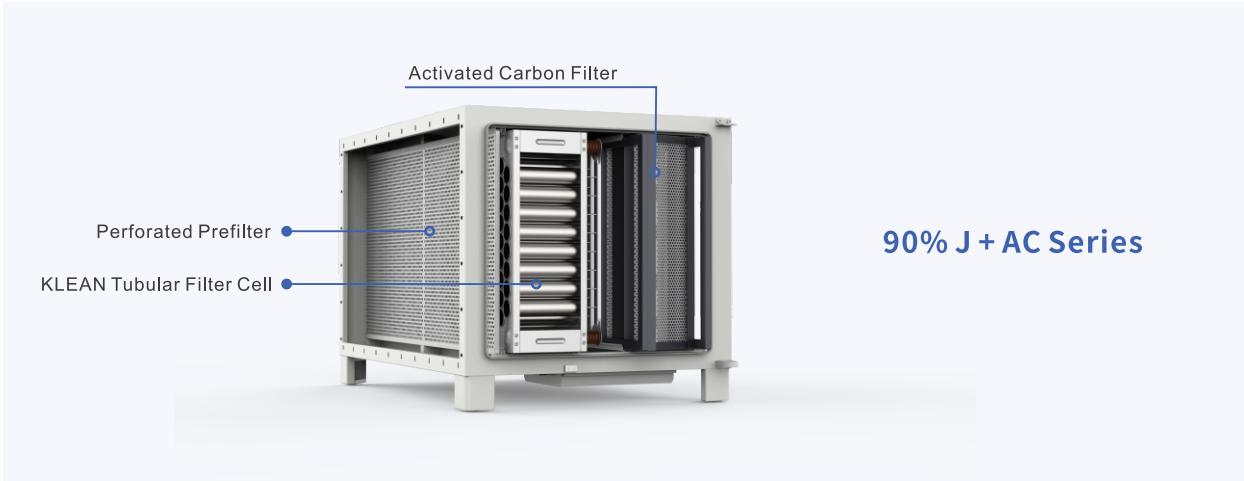
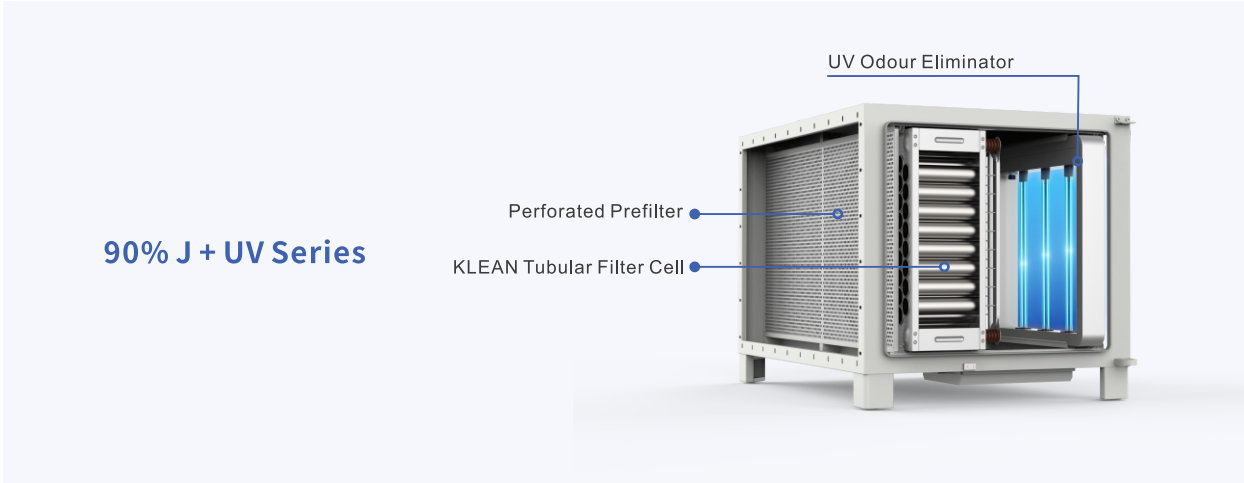
Hard-core Safety Features

Operator is put under triple safeguard by primary electrical isolation, access door interlocking, and keylocking latches

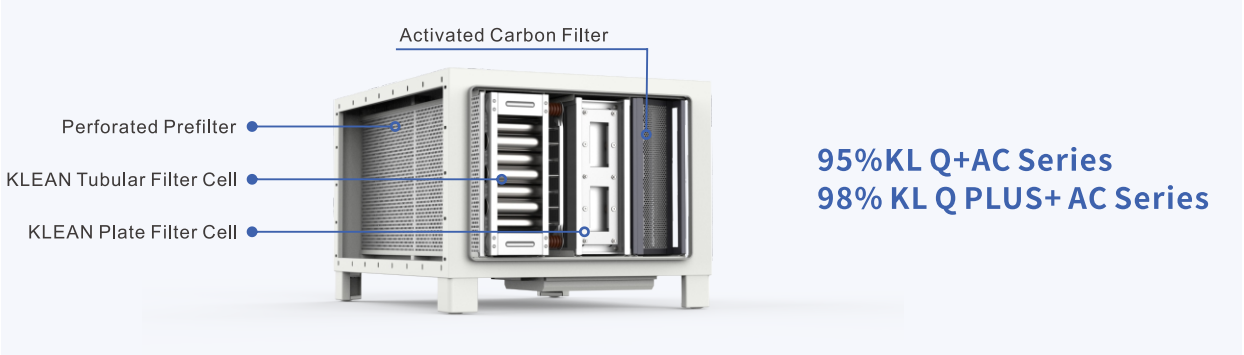
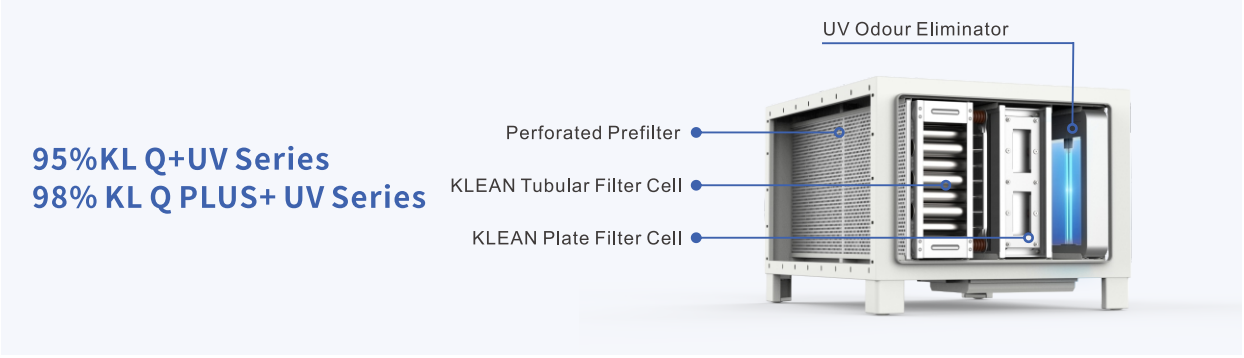
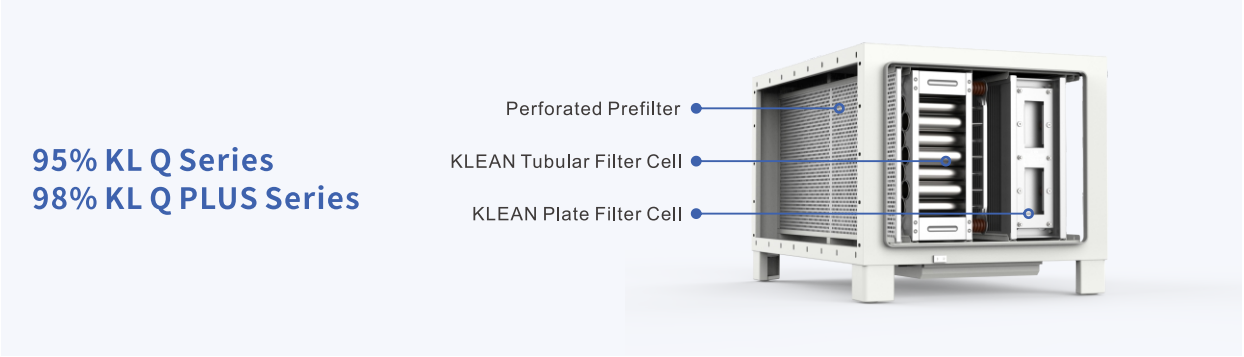
Rodent-proof Cable Entry Seal

Rodent-proof seal at the cable entry and blind over at the cable exit to protect the critical parts

Typical Configurations- J Series



Typical Configurations- KL Series



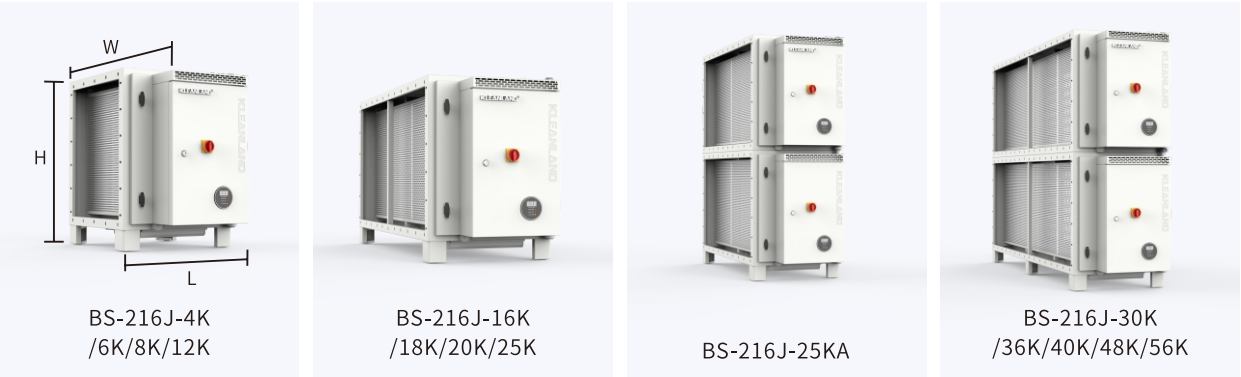
J Series

High Level Discharge, Light Load Cooking

90% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216J-4K	4000	650×675×904	359×696	1P+N+PE AC220 50HZ	270	62
BS-216J-6K	6000	650×712×904	396×696		620	66
BS-216J-8K	8000	650×871×904	555×696		677	78
BS-216J-12K	12000	650×1104×904	788×696		910	94
BS-216J-16K	16000	650×1513×904	1197×696		1210	123
BS-216J-18K	18000	650×1587×904	1271×696		1430	129
BS-216J-20K	20000	650×1746×904	1430×696		1290	140
BS-216J-25K	25000	650×1979×904	1663×696		1697	167
BS-216J-25KA	25000	650×1104×1717	788×1509		1697	176
BS-216J-30K	30000	650×1513×1717	1197×1509		2055	235
BS-216J-36K	36000	650×1587×1717	1271×1509		1984	247
BS-216J-40K	40000	650×1746×1717	1430×1509		2580	270
BS-216J-48K	48000	650×1979×1717	1663×1509		3172	324
BS-216J-56K	56000	650×2388×1717	2072×1509		3828	374

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



KL Q Series

Low Level Discharge, Medium Load Cooking

95% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL6K	6000	800×696×724	342×522	1P+N+PE Ac220 50HZ	344	80
BS-216Q-KL8K	8000	800×811×724	457×522		388	85
BS-216Q-KL12K	12000	800×1041×724	687×522		683	115
BS-216Q-KL16K	16000	800×1355×724	1001×522		928	132
BS-216Q-KL20K	20000	800×1585×724	1231×522		1085	160
BS-216Q-KL24K	24000	800×1815×724	1461×522		1239	188
BS-216Q-KL24KA	24000	800×1041×1346	687×1142		1239	220
BS-216Q-KL30K	30000	800×1355×1346	1001×1144		1856	260
BS-216Q-KL36K	36000	800×1585×1346	1231×1144		2170	315
BS-216Q-KL42K	42000	800×1815×1346	1461×1144		2478	372
BS-216Q-KL50K	50000	800×2129×1346	1775×1144		3018	445

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



KL Q PLUS Series

Low Level Discharge, Heavy Load Cooking

98% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL3000	3000	800×696×724	342×522	1P+N+PE Ac220 50HZ	344	80
BS-216Q-KL4000	4000	800×811×724	457×522		388	85
BS-216Q-KL6000	6000	800×1041×724	687×522		683	115
BS-216Q-KL8000	8000	800×1355×724	1001×522		928	132
BS-216Q-KL10000	10000	800×1585×724	1231×522		1085	160
BS-216Q-KL12000	12000	800×1815×724	1461×522		1239	188
BS-216Q-KL12000A	12000	800×1041×1346	687×1142		1239	220
BS-216Q-KL16000	16000	800×1355×1346	1001×1144		1856	260
BS-216Q-KL20000	20000	800×1585×1346	1231×1144		2170	315
BS-216Q-KL24000	24000	800×1815×1346	1461×1144	3P+N+PE AC380 50/60HZ	2478	372
BS-216Q-KL28000	28000	800×2129×1346	1775×1144		3018	445
BS-216Q-KL30000	30000	800×1585×1968	1231×1766		3280	470
BS-216Q-KL36000A	36000	800×1815×1968	1461×1766		3760	558

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



KL SK Series

Low Level Discharge, Intense Load Cooking

99% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL3000SK	3000	907×696×724	342×522	1P+N+PE Ac220 50HZ	360	128
BS-216Q-KL4000SK	4000	907×811×724	457×522		395	136
BS-216Q-KL6000SK	6000	907×1041×724	687×522		690	184
BS-216Q-KL8000SK	8000	907×1355×724	1001×522		935	211
BS-216Q-KL10000SK	10000	907×1585×724	1231×522		1100	256
BS-216Q-KL12000SK	12000	907×1815×724	1461×522		1242	300
BS-216Q-KL12000ASK	12000	907×1041×1346	687×1142		1250	352
BS-216Q-KL16000SK	16000	907×1355×1346	1001×1144		1900	416
BS-216Q-KL20000SK	20000	907×1585×1346	1231×1144		2200	504
BS-216Q-KL24000SK	24000	907×1815×1346	1461×1144	3P+N+PE AC380 50/60HZ	2500	595
BS-216Q-KL28000SK	28000	907×2129×1346	1775×1144		3100	712
BS-216Q-KL30000SK	30000	907×1585×1968	1231×1766		3300	752
BS-216Q-KL36000SK	36000	907×1815×1968	1461×1766		3800	892
BS-216Q-KL42000SK	42000	907×2129×1968	1775×1766		4600	1068
BS-216Q-KL48000SK	48000	907×1815×2590	1461×2388		5100	1184
BS-216Q-KL56000SK	56000	907×2129×2590	1775×2388		6200	1424

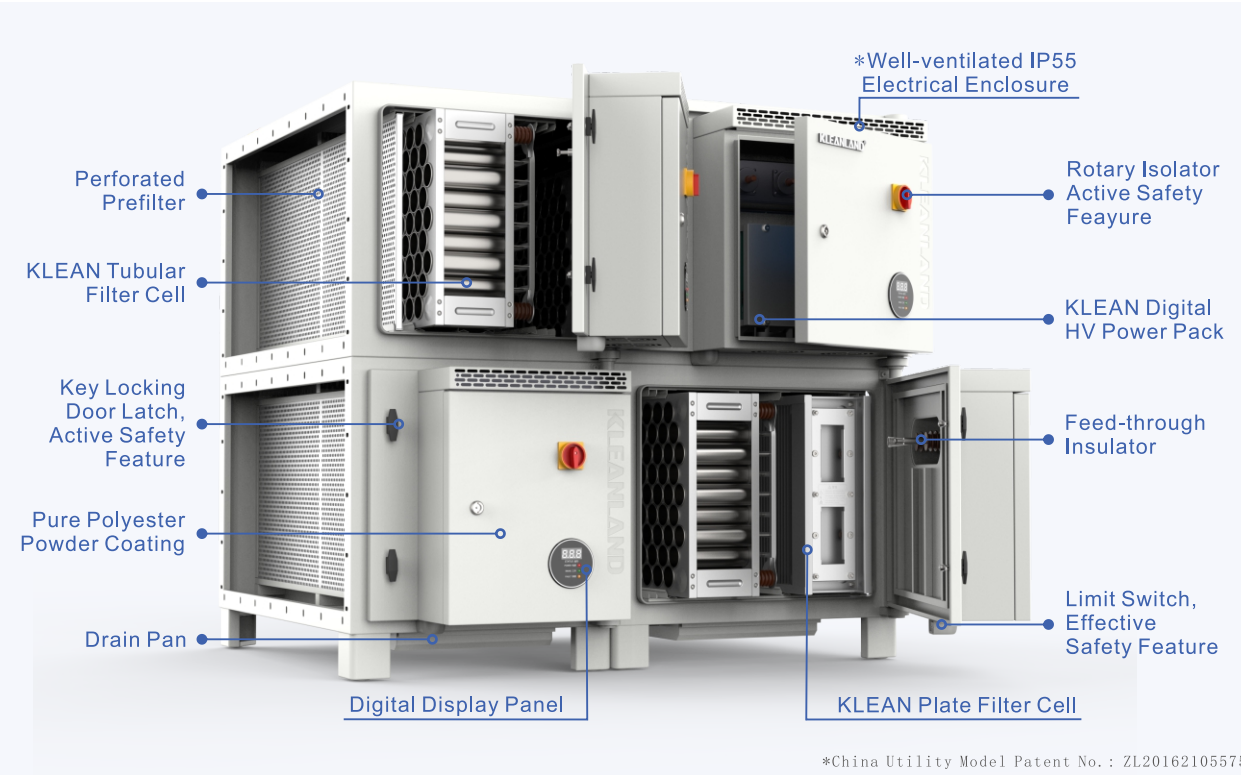
Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



KL TK Series | Low Level Discharge, Extremely Intense Load Cooking
98% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Foods cooked over wood or charcoal burning appliances capture a natural smoked flavor that conventional cooking cannot duplicate. The combustion of crackling charcoal, the sizzling fatty cuts of meat, together with the high sugar content of the condiments, on the one hand drive the popularity of such style of cooking, and expose people to heavily polluting compounds such as carbon black, oil, grease & smoke particles and malodours on the other hand.

Concentration Curve of Smoke Particles Measured at a Barbecue Restaurant
Reports show an Avg. 37mg/m³ & Max. 100mg/m³ concentration in such establishments



Specially Designed For Grease- and Carbon Black-Laden Exhaust Air

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL3000TK	3000	1450×696×751	342×522	1P+N+PE Ac220/ 50HZ	640	129
BS-216Q-KL4000TK	4000	1450×811×751	457×522		928	133
BS-216Q-KL6000TK	6000	1450×1041×751	687×522		1239	177
BS-216Q-KL8000TK	8000	1450×1355×751	1001×522		1856	198
BS-216Q-KL10000TK	10000	1450×1585×751	1231×522		2170	238
BS-216Q-KL12000TK	12000	1450×1815×751	1461×522	3P+N+PE AC380 50/60HZ	2478	280
BS-216Q-KL12000ATK	12000	1450×1041×1373	687×1142		2478	336
BS-216Q-KL16000TK	16000	1450×1355×1373	1001×1144		3712	388
BS-216Q-KL20000TK	20000	1450×1585×1373	1231×1144		4340	467
BS-216Q-KL24000TK	24000	1450×1815×1373	1461×1144		4956	550
BS-216Q-KL28000TK	28000	1450×2129×1373	1775×1144		6036	661
BS-216Q-KL30000TK	30000	1450×1585×1995	1231×1766		6520	700

Note: 1. Images and specification are for reference only and are subject to change without prior notice.
2. The airflow direction of the equipment can be freely changed at the installation site;
3. The standard size of the oil drain port is 2cm.



UV Odour Eliminator

To be installed at downstream of ESP's to further remove malodorous gases.



High Quality Quartz Glass UV Lamps

High purity quartz tubes are processed with ultra-precision manufacturing techniques, producing the state-of-the-art UV lamps that are capable of;

- Providing UVC emission and ozone generation rate up to 10% higher than average lamps;
- Maintaining stable UVC emission over a wide range of temperatures;
- Running for up to 10000 hours at optimum capacity.

U-Shaped Lamp

SUS Lamp Case

Long Operating Hours







Quartz Glass Tube

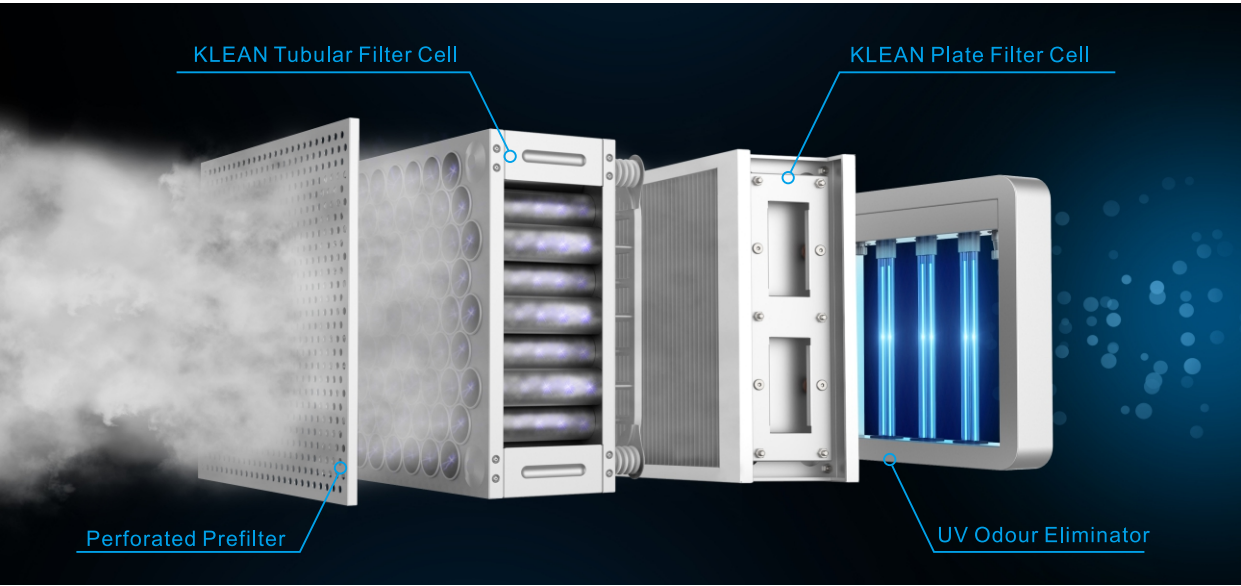
Dual-Wavelength Radiation

High Transmission Efficiency

High Performance Electronic Ballast

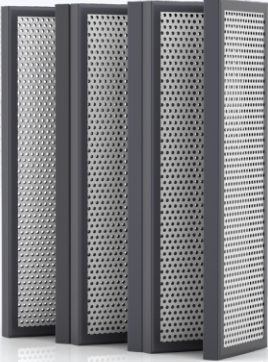
Passed electrical safety and EMC compliance tests.
Lifetime: up to 10 years;
Programmed to preheat the cathodes, which helps to prolong lamp life;
Stronger output brings in improvements in UV radiation output.

- Open Circuit Protection
- Short Circuit Protection
- Overload Protection
- Lamp Breakage Protection
- End-of-life Protection
- Rectifying Effect Protection




Activated Carbon Filter


To be installed downstream of ESP's to further remove malodorous gases.





Modular V-bank Carbon Filter


The carbon-rechargeable panels brings in lots of savings in a long run. The V-shape allows for larger receiving surface and longer dwell time; The modular design provides ease of installation and maintenance for the serviceman.
The aluminium alloy carbon casing is light-weighted and highly durable.


V Shape Carbon Panels

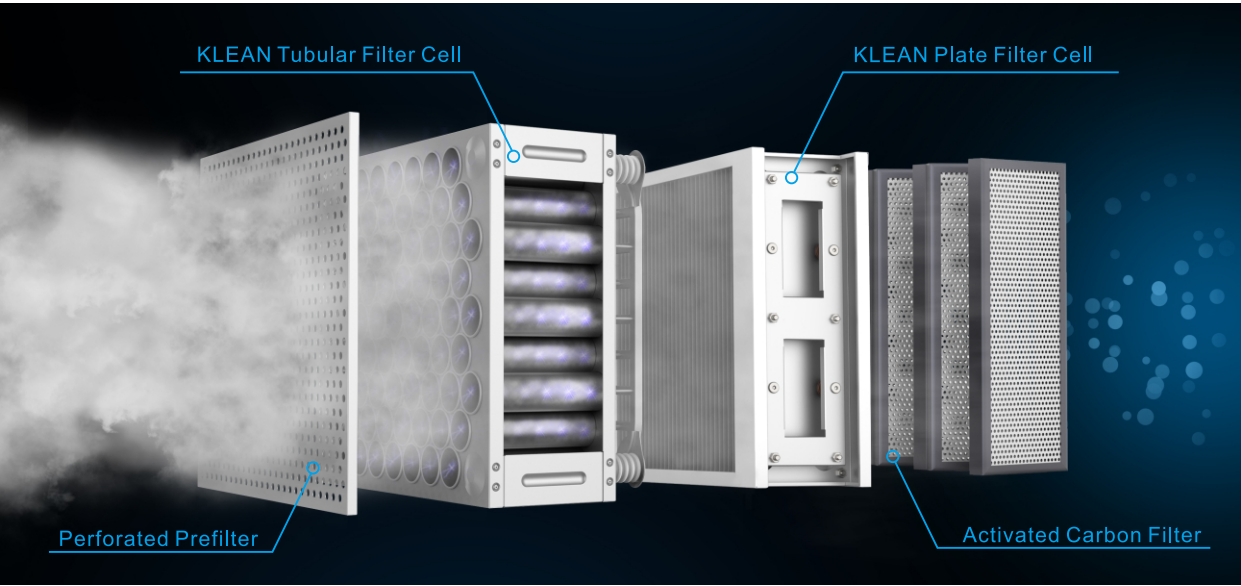
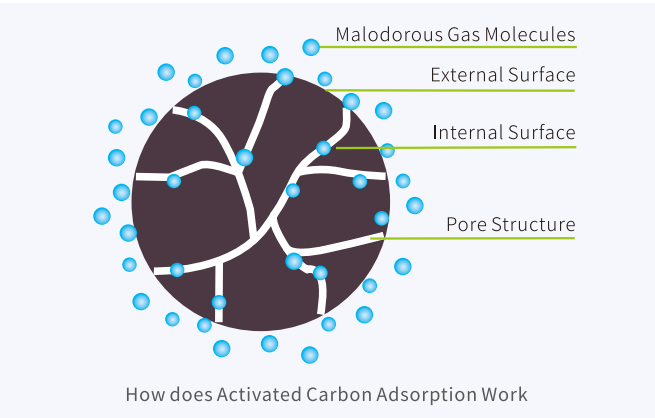
Aluminium Alloy Carbon Casing

Modularized Construction

Coal-based Cylindrical Carbon

Carbon Refill with Ease

Highly Effective in Odor Removal



J + UV Series

High Level Discharge, Light Load Cooking + Odour Control

90% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216J-6K+UV	6000	907×712×904	396×696	1P+N+PE AC220 50HZ	716	69
BS-216J-8K+UV	8000	907×871×904	555×696		821	94
BS-216J-12K+UV	12000	907×1104×904	788×696		1102	113
BS-216J-16K+UV	16000	907×1513×904	1197×696		1498	153
BS-216J-18K+UV	18000	907×1587×904	1271×696		1718	164
BS-216J-20K+UV	20000	907×1746×904	1430×696		1626	175
BS-216J-25K+UV	25000	907×1979×904	1663×696		2081	198
BS-216J-25KA+UV	25000	907×1104×1717	788×1509		2081	212
BS-216J-30K+UV	30000	907×1513×1717	1197×1509		2631	293
BS-216J-36K+UV	36000	907×1587×1717	1271×1509		2560	308
BS-216J-40K+UV	40000	907×1746×1717	1430×1509		3252	335
BS-216J-48K+UV	48000	907×1979×1717	1663×1509		3940	397
BS-216J-56K+UV	56000	1300×2388×1741	2072×1509		4788	812

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



J + AC Series

High Level Discharge, Light Load Cooking + Odour Control

90% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216J-6K+AC	6000	907×712×904	396×696	1P+N+PE AC220 50HZ	620	93
BS-216J-8K+AC	8000	907×871×904	555×696		677	128
BS-216J-12K+AC	12000	907×1104×904	788×696		910	159
BS-216J-16K+AC	16000	907×1513×904	1197×696		1210	222
BS-216J-18K+AC	18000	907×1587×904	1271×696		1430	234
BS-216J-20K+AC	20000	907×1746×904	1430×696		1290	255
BS-216J-25K+AC	25000	907×1979×904	1663×696		1697	290
BS-216J-25KA+AC	25000	907×1104×1717	788×1509		1697	304
BS-216J-30K+AC	30000	907×1513×1717	1197×1509		2055	431
BS-216J-36K+AC	36000	907×1587×1717	1271×1509		1984	448
BS-216J-40K+AC	40000	907×1746×1717	1430×1509		2580	496
BS-216J-48K+AC	48000	907×1979×1717	1663×1509		3172	581
BS-216J-56K+AC	56000	1300×2388×1741	2072×1509		3828	859

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



KL Q + UV Series

Low Level Discharge, Medium Load Cooking
+ Odour Control

95% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL6K+UV	6000	907×696×724	342×522	1P+N+PE AC220 50HZ	440	109
BS-216Q-KL8K+UV	8000	907×811×724	457×522		484	116
BS-216Q-KL12K+UV	12000	907×1041×724	687×522		875	156
BS-216Q-KL16K+UV	16000	907×1355×724	1001×522		1120	180
BS-216Q-KL20K+UV	20000	907×1585×724	1231×522		1373	218
BS-216Q-KL24K+UV	24000	907×1815×724	1461×522		1623	255
BS-216Q-KL24KA+UV	24000	907×1041×1346	687×1142		1623	300
BS-216Q-KL30K+UV	30000	907×1355×1346	1001×1144		2240	353
BS-216Q-KL36K+UV	36000	907×1585×1346	1231×1144	3P+N+PE AC380 50/60HZ	2746	428
BS-216Q-KL42K+UV	42000	907×1815×1346	1461×1144		3246	505
BS-216Q-KL50K+UV	50000	907×2129×1346	1775×1144		3786	605

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
3.The oil drain pan has a DN20 drain connection.



KL Q PLUS + UV Series

Low Level Discharge, Heavy Load Cooking
+ Odour Control

98% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL3000+UV	3000	907×696×724	342×522	1P+N+PE AC220 50HZ	440	109
BS-216Q-KL4000+UV	4000	907×811×724	457×522		484	116
BS-216Q-KL6000+UV	6000	907×1041×724	687×522		875	156
BS-216Q-KL8000+UV	8000	907×1355×724	1001×522		1120	180
BS-216Q-KL10000+UV	10000	907×1585×724	1231×522		1373	218
BS-216Q-KL12000+UV	12000	907×1815×724	1461×522		1623	255
BS-216Q-KL12000A+UV	12000	907×1041×1346	687×1142		1623	300
BS-216Q-KL16000+UV	16000	907×1355×1346	1001×1144		2240	353
BS-216Q-KL20000+UV	20000	907×1585×1346	1231×1144	3P+N+PE AC380 50/60HZ	2746	428
BS-216Q-KL24000+UV	24000	907×1815×1346	1461×1144		3246	505
BS-216Q-KL28000+UV	28000	907×2129×1346	1775×1144		3786	605
BS-216Q-KL30000+UV	30000	907×1585×1968	1231×1766		4144	640
BS-216Q-KL36000+UV	36000	907×1815×1968	1461×1766		4912	758

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
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3.The oil drain pan has a DN20 drain connection.



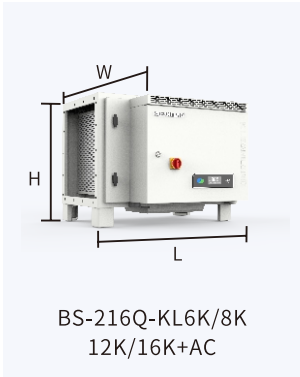
KL Q + AC Series

Low Level Discharge, Medium Load Cooking
+ Odour Control

95% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL6K+AC	6000	907×696×724	342×522	1P+N+PE AC220 50HZ	344	125
BS-216Q-KL8K+AC	8000	907×811×724	457×522		388	130
BS-216Q-KL12K+AC	12000	907×1041×724	687×522		683	175
BS-216Q-KL16K+AC	16000	907×1355×724	1001×522		928	200
BS-216Q-KL20K+AC	20000	907×1585×724	1231×522		1085	241
BS-216Q-KL24K+AC	24000	907×1815×724	1461×522		1239	284
BS-216Q-KL24KA+AC	24000	907×1041×1346	687×1142		1239	335
BS-216Q-KL30K+AC	30000	907×1355×1346	1001×1144		1856	392
BS-216Q-KL36K+AC	36000	907×1585×1346	1231×1144		2170	474
BS-216Q-KL42K+AC	42000	907×1815×1346	1461×1144		2478	560
BS-216Q-KL50K+AC	50000	907×2129×1346	1775×1144		3018	670

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
2.Factory configured airflow direction of the unit is from left to right. Opposite direction is available when specified.
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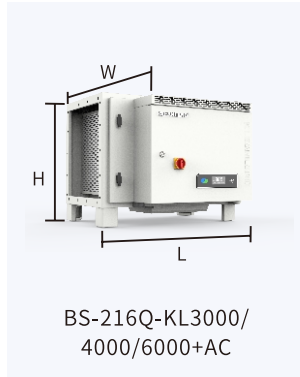
KL Q PLUS + AC Series

Low Level Discharge, Heavy Load Cooking
+ Odour Control

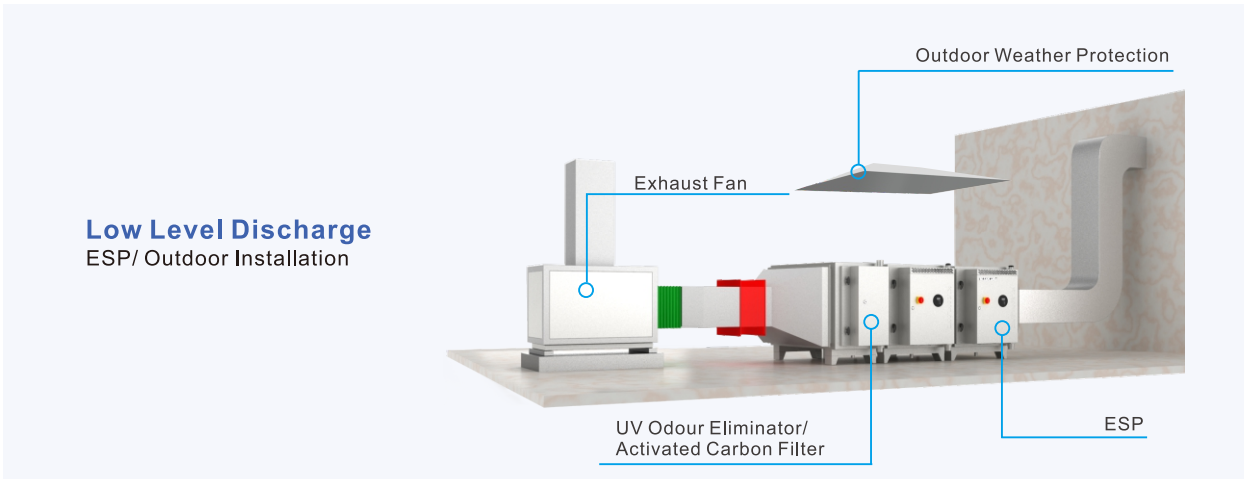
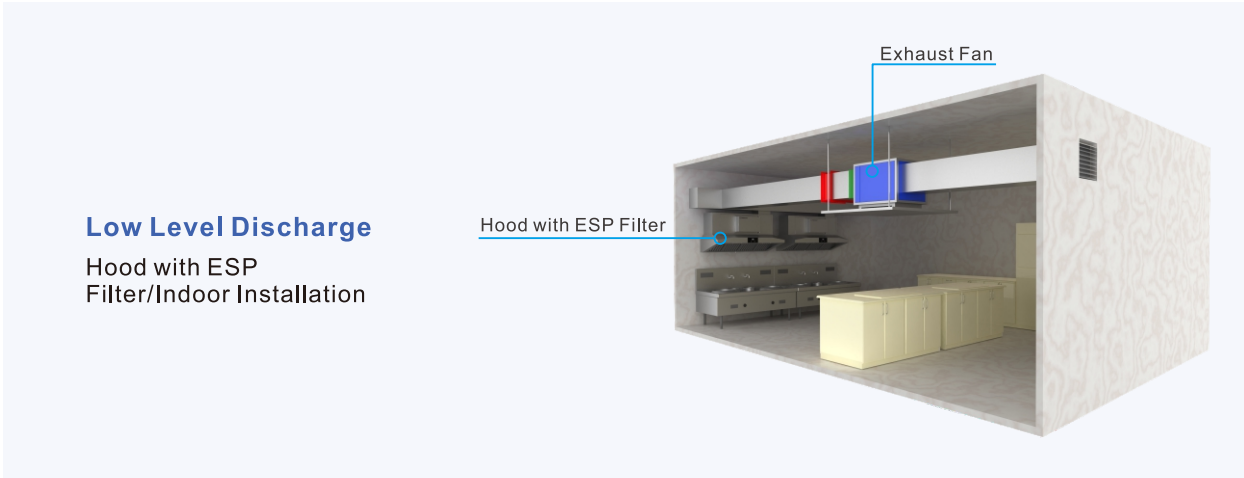
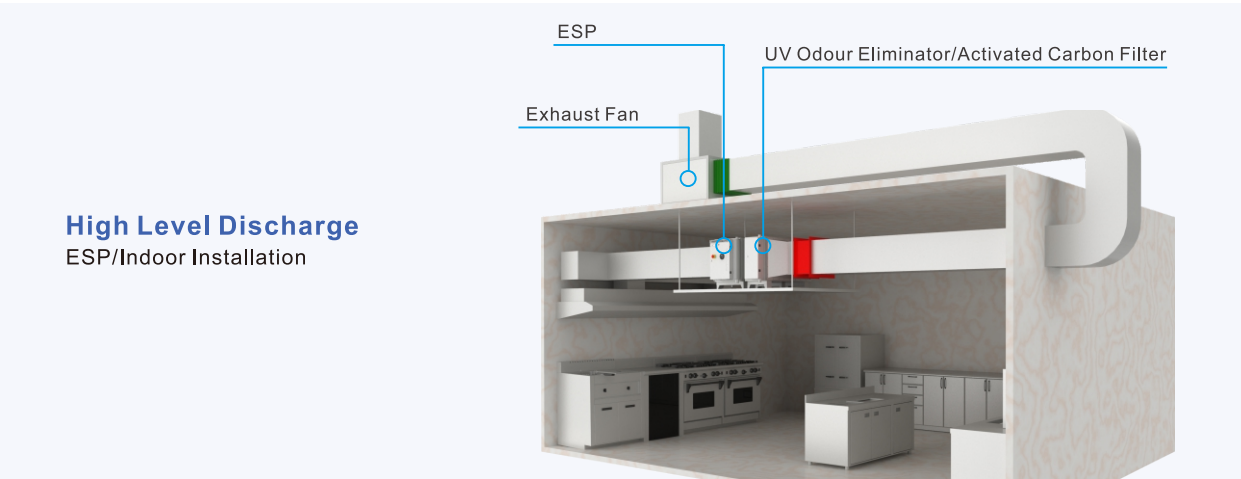
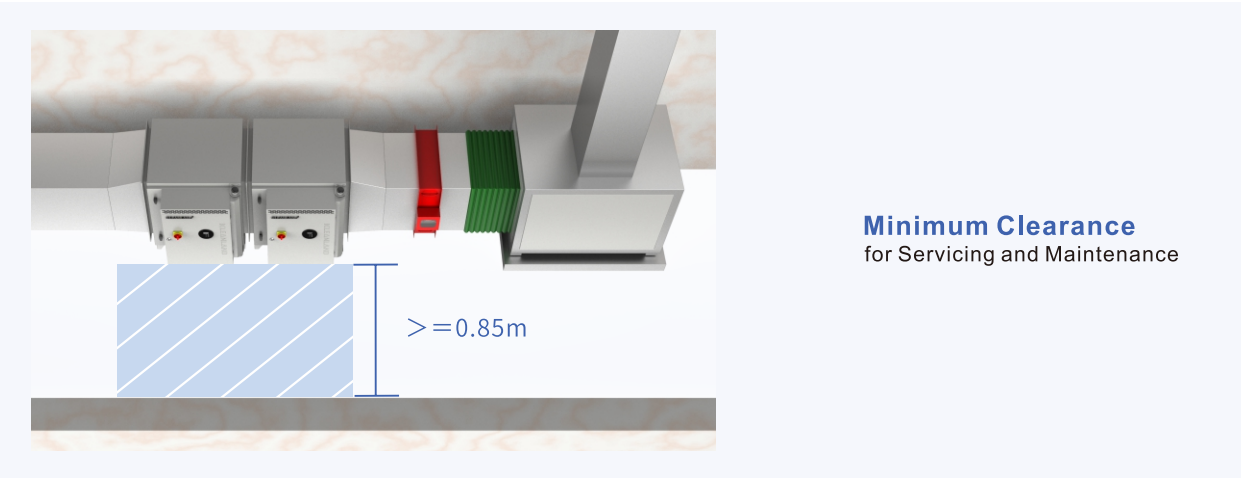
98% Maximum Filtration Efficiency at Rated Airflow under Lab Conditions

Model	Airflow (m³/h)	Dimension (mm) L×W×H	Vent Size (mm)	Power Supply	Power (w)	Weight (kg)
BS-216Q-KL3000+AC	3000	907×696×724	342×522	1P+N+PE AC220 50HZ	344	125
BS-216Q-KL4000+AC	4000	907×811×724	457×522		388	130
BS-216Q-KL6000+AC	6000	907×1041×724	687×522		683	175
BS-216Q-KL8000+AC	8000	907×1355×724	1001×522		928	200
BS-216Q-KL10000+AC	10000	907×1585×724	1231×522		1085	241
BS-216Q-KL12000+AC	12000	907×1815×724	1461×522		1239	284
BS-216Q-KL12000A+AC	12000	907×1041×1346	687×1142		1239	335
BS-216Q-KL16000+AC	16000	907×1355×1346	1001×1144		1856	392
BS-216Q-KL20000+AC	20000	907×1585×1346	1231×1144		2170	474
BS-216Q-KL24000+AC	24000	907×1815×1346	1461×1144		2478	560
BS-216Q-KL28000+AC	28000	907×2129×1346	1775×1144		3018	670
BS-216Q-KL30000+AC	30000	907×1585×1968	1231×1766		3280	711
BS-216Q-KL36000+AC	36000	907×1815×1968	1461×1766		3760	840

Note: 1. Images and specifications are for reference only and are subject to change without prior notice.
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3.The oil drain pan has a DN20 drain connection.



Recommended Installation



kCloud:Online Monitoring Service

Collaborative Support for Remote Machine Management

These services include: realtime monitoring of working statuses of the filters, secure data collection and storage with a cloud server, professional analysis and interpretation of collected data, information sharing with the customers through multiple channels, optimal operation suggestions and maintenance alerts, and when necessary, active on-site services to handle complex issues in a more timely manner.

Kitchen

With KLEAN ESP installed.

Service Center

kCloud Platform also feeds KLEAN service center with detailed information.



KLEAN ESP

Realtime transmission of working statuses based on KLEAN digital power pack and internet technologies. Realtime monitoring of exhaust emission data at the ESP exit using optional smoke meter.

User (Phone APP+PC)

For improved maintenance, working statuses of the ESP can be remotely accessed with a PC or a smart phone.

Well-Rounded Service Strategy

32 Locations Nationwide

5 Offices in Shijiazhuang, Hangzhou, Wuhan, Chengdu, and Shenzhen. Strong sales and service coverage in 27 first-and second-tier cities nationwide.

Five Star After Sales Service

All after sales service engineers went through vigorous staff training program and their service capacities meet GB/T27922-2011 five star requirements.

Product Liability Insurance with up to ¥50million Coverage

Coverage Territory: the People's Republic of China (excluding Hong Kong SAR, Macao SAR, and Taiwan).

5 Warehousing Centers Nationwide

Kunming, Beijing, Wuhan, Hubei, Guiyang.

24h Online Cloud Service (for Mainland China)

We promise to: Respond to service request within 24h, be on-site within 48h, clear the fault conditions within 1h after being on-site, 12month free warranty and lifetime service.

Free Technical Proposal/ Model Selection

We provide one-stop exhaust treatment solution that covers field inspection, model selection, technical proposal, installation supervision, operator orientation, commissioning, etc.





UNIVERSITY OF CHINESE
ACADEMY OF SCIENCES



CHINA MEDICAL
UNIVERSITY



JIETANG CHAOSHAN
INTERNATIONAL AIRPORT



WENZHOU WENQING
EXPRESSWAY

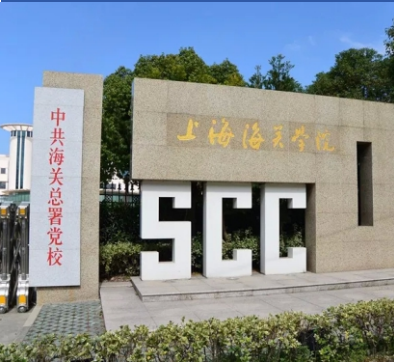
XI'AN JIAOTONG
UNIVERSITY



PANASONIC ELECTRONIC
MATERIALS (GUANGZHOU)
CO., LTD



FAW VOLKSWAGEN
FACTORY



NANJING UNIVERSITY OF
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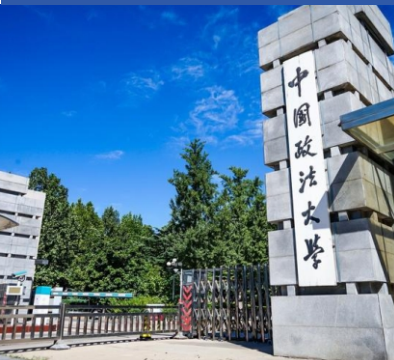


NANJING UNIVERSITY

MIDEA GROUP
HEADQUARTERS



XIAMEN RAIL TRANSIT
GROUP SMART CANTEEN



MACAU UNIVERSITY
OF SCIENCE AND
TECHNOLOGY

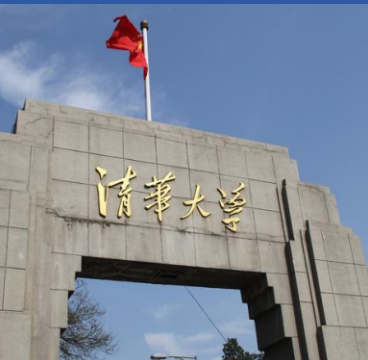


XIAMEN NATIONAL
ACCOUNTING COLLEGE



HUNAN NORMAL
UNIVERSITY

CHONGQING HIGH
TECH INDUSTRY
RESEARCH INSTITUTE



XIAMEN DAILY



ALIBABA CLOUD
VALLEY PARK



DEPARTMENT OF ECOLOGY
AND ENVIRONMENT OF
JIANGXI PROVINCE



Case Studies: Commercial Complexes



New Century Global Center, Chengdu

Category: Multi-use Commercial Complex
Location: Tianfu Avenue, Wuhou District, Chengdu City, Sichuan Province, Chin.
Description: It is a large-scale modern idyllic city with its main building designed with the concept of "flowing melody". The main building covers an area of 500*400m with a height of 100m and is the largest single building in world. The center covers an area of about 1,300mu, with a total construction area of about 1.76 million m² . It is a multi-functional building complex integrating entertainment, exhibition, business, media, shopping and accommodation areas.
Developer: Century City International Exhibition Center Co.
Featuring: KLEAN ESP filter, 25pcs
Time of Installation: JAN, 2019
Total Airflow: 1723000 m³/h



Zhengsheng Taigugang Wangfujing Shopping Center, Nanchang

Category: Multi-use Commercial Complex
Location: Hongcheng Road, Qingyunpu District, Nanchang City, Jiangxi Province, China
Description: Covering an area of about 116mu, with a total construction area of about 800,000m² and a total investment of about 7 billion RMB, the Wangfujing Shopping Center is a world-class commercial complex built according to world-class standards. It features functional subdivisions such as a JW Marriott Hotel, an all-weather modern business street area that spans 80,000m², and eco-friendly prime office buildings, etc.
Developer: HUGIANT GROUP
Featuring: KLEAN ESP filter, 117pcs
Time of Installation: FEB, 2019
Total Airflow: 2200000 m³/h



Wanda Plaza, Shijiazhuang Changan

Category: Multipurpose Commercial Complex
Location: Zhongshan Road, Chang'an District, Shijiazhuang City, Hebei Province, China.
Description: It is the second Wanda Plaza in Shijiazhuang. Covering a total construction area of 145,000m², it is a one-stop destination that meets shopping, leisure, entertainment and dining requirements of the whole family.
Developer: Shijiazhuang Guorui Real Estate Development Co., Ltd.
Featuring: KLEAN ESP Filter, 66pcs
Time of Installation: NOV, 2018
Total Airflow: 1056000 m³/h



Taihe Central Plaza, Beijing

Category: Multi-use Commercial Complex
Location: Daxing District, Beijing City, China
Description: It is located in Beijing Daxing New Town, near the Yihezhuang Station of Metro Line 4 (within one kilometer). It is one of the representative works of Taihe's "Plaza Series" large-scale urban complexes. The design is based on the concept of "Water Cloud City" and takes a "flowing cloud and water" architectural form. It covers an area of about 140,000m² and a construction area of about 400,000m².
Developer: Beijing Taihe Jiahua Real Estate Development Co., Ltd.
Featuring: KLEAN ESP filter, 12pcs
Time of Installation: NOV, 2018
Total Airflow: 486000 m³/h



Vanke Cloud City, Shenzhen

Category: Multi-use Commercial & Apartment Complex
Location: Nanshan District, Shenzhen City, China
Description: The Vanke Cloud City covers an area of approximately 400,000m² and has a total construction area of 1.335 million m². This includes 775,000m² of industrial buildings, 250,000m² of apartment spaces, and 310,000m² of comprehensive supporting facilities. Focusing on building a green and livable industrial cluster centered around industries, Vanke Cloud City is dedicated to becoming an innovative technology city.
Developer: Shenzhen Vanke City View Real Estate Development Company Limited
Featuring: KLEAN ESP filter+Activated Carbon Filter, 41pcs
Time of Installation: JUN, 2018
Total Airflow: 1072000m³/h



Xiangjiang Fortune Finance Centre

Category: Multi-use Commercial Complex
Location: Yuelu District, Changsha City, Hunan Province, China.
Description: As the "Financial Landmark of Xiangjiang New Area," this project anchors Hunan financial center axis. Located atop Metro Line 4 (Financial Center Station), it spans 660,000m² and includes office buildings, commercial spaces, and hotel rooms and apartments. The 328m Tower A under construction will be the tallest building in Hunan Xiangjiang New Area.
Developer: Changsha Pilot Investment Holdings Group Co., Ltd
Featuring: KLEAN ESP filter+UV Odour Eliminator, 33pcs
Time of Installation: Nov, 2018
Total Airflow: 1254000m³/h



CREC Qingdao Cosmopolitan Exposition

Category: Mixed-use Commercial & Exposition Complex
Location: Jiaonan, Huangdao, Qingdao City, Shandong Province, China.
Description: CREC Qingdao Cosmopolitan Exposition is located in Qingdao's West Coast New Area, Covering an area of 3,000mu with an investment of 50 billion yuan, it is a large scale international exhibition city that integrates exhibitions, conferences, hotels, commercial spaces, office buildings, etc.
Developer: China Railway Real Estate Development Group Co., Ltd.
Featuring: KLEAN ESP filter+UV Odor Eliminator, 51pcs
Time of Installation: Feb, 2018



Handan Global Center

Category: Multi-use Commercial Complex
Location: Renmin Road, Congtai District, Handan City, Hebei Province, China.
Description: Covering an area is 59,000m², with a construction area of about 600,000m², of which the central commercial area spans around 180,000m², it is the largest commercial complex in Handan city as well as in North China, and will become a landmark commercial building complex in Handan in the future.
Developer: Hebei Meishilin Group Co., Ltd
Featuring: KLEAN ESP filter+ UV Odour Eliminator, 59pcs
Time of Installation: MAR, 2018
Total Airflow: 1298000m³/h

More Customers: Shopping Centers
Food Courts/Chain Restaurants

Wuhan Lingjiaohu Wanda Plaza
Wuhan Hanjie St Wanda Plaza
Mudanjiang Wanda Plaza
Yunnan Xishan Wanda Plaza
Chongqing Banan Wanda Plaza
DongguanDongcheng Wanda Plaza
Guangzhou Luogang Wanda Plaza
Mudanjiang Wanda Plaza
Kunshan Jingkai Wanda Plaza



Kunming Zhixin Plaza
Foshan Zhihui Xincheng
Zhuhai Mingtai Plaza
Tongde Kunming Plaza
Changsha Mingfa Plaza
Guangzhou Baixin Plaza
Foshan Core Pacific Plaza
Zhuzhou Yandi Square
Kunming Harmony Plaza
Xiaogan Wuyue Plaza
Guangzhou Tee Mall
Shenzhen Time Mall



Zhengzhou Xinzheng International Airport
Changsha Huanghua International Airport
Shenzhen Baoan International airport
Fuzhou Changle International Airport
Nanjing Lukou International Airport
KingKey 100 Tower,Shenzhen
Shenzhen Excellence Meilin Plaza
Beijing Hopson Plaza
Ningde RT-Mart International Plaza
Dali Taiye International Plaza



Shenzhen EP Mall 517 Food Plaza
Liancheng New World Shopping Mall,
Shenzhen
Changsha Vanguard Food Court
Huangpu Poly Garden Business Center,
Guangzhou
Zengcheng Poly Dongjiang Mansion
Qianhai HOP World Shopping Mall,
Shenzhen
CRC Shenzhen Bay International
Commercial Centre
Wuhu Squirrel Town Tourist Resort
Chengdu Chunxi Road Shangdu Food
City
YingtianTriumphant New World Plaza
Haikou City Changying Universal 100
Wonderland
Zhongshan Tianyi International Plaza



The MixC, Zaoyang
Hangzhou Yin
Wuhan Haida Plaza
Shenzhen EP Mall
Jingmen Food Plaza
Guangzhou Baotai Plaza
Jinghua Wanda Plaza
Jiangmen Sihui Zijin City
Shenzhen Galaxy Legend



Guangzhou Baiyun International Airport
Zhonshan Poly International Plaza
Grand Mansion in Guangzhou pazhou
Guangzhou R&F Yingkai Square
Shenyang Changbai MIXC ONE
Kunming World Horti-Expo Garden
Zhuzhou Midea Times Square
Shanghai Lingang Powerlong Plaza
Zhuzhou Wangfujing Department Store
Zhongshan Daxin Xinduhui
Jiaozuo Wangfujing Department Store
Kunming Helenbergh International

Suzhou Suning Life Plaza
Huaian Suning Life Plaza
Ningbo Xiangshan
Peninsula
Vanke Kingsway
International
Xining Mojia Food Street
Qibao Vanke Plaza
GZ Vanguard MIXC City



Beijing Daqian Restaurant
Yonghe King Fast Food
Guangzhou Restaurant
Chongqing Tao Ran Ju
Yonghe Soy Milk King
Jiawang Chain Restaurant
Ducheng Fast Food Chain
Go Believe



Freshippo
Changsha Peng Chu
Xiabu Xiabu
Grandma's
Uegashima Coffee
Dicos
Mao Jia Canteen
Li-hua Fast food
Madonald's
Yum! Brands.Inc



Quanjude Roast duck Restaurant
Chu Sao DangJia Chain Restaurant
Kungfu Catering Management
Wun Nam Homemade Recipe
Jiumaojiu Resturant Chain Co., Ltd
Qing Dao Ballad And Fish Dumpling



Tanlu Grilled Fish
Hai Di Lao hotpot
Ajisen Ramen
Xibei Noodles
South Beauty
Bao Bao Bao soup
Yoshinoya Co.,Ltd
Little Sheet Hotpot
Go Believe



Hangzhou Xinkaiyuan Hotel
Guangzhou Banzai Sushi Chain
Meng Ziyuan Restaurant Chain Group
Jia Le Yuan Fast Food Chain Restaurant
Fu Zhi Zun Fast Food Chain Restaurant
Family Fast Food Chain Restaurant
Guangzhou Taikoo Hui Super Wenheyoy
Wuhan New Farmer Beef Noodle Restaurant
Wuhan Let The Sun Grand View Hotel

