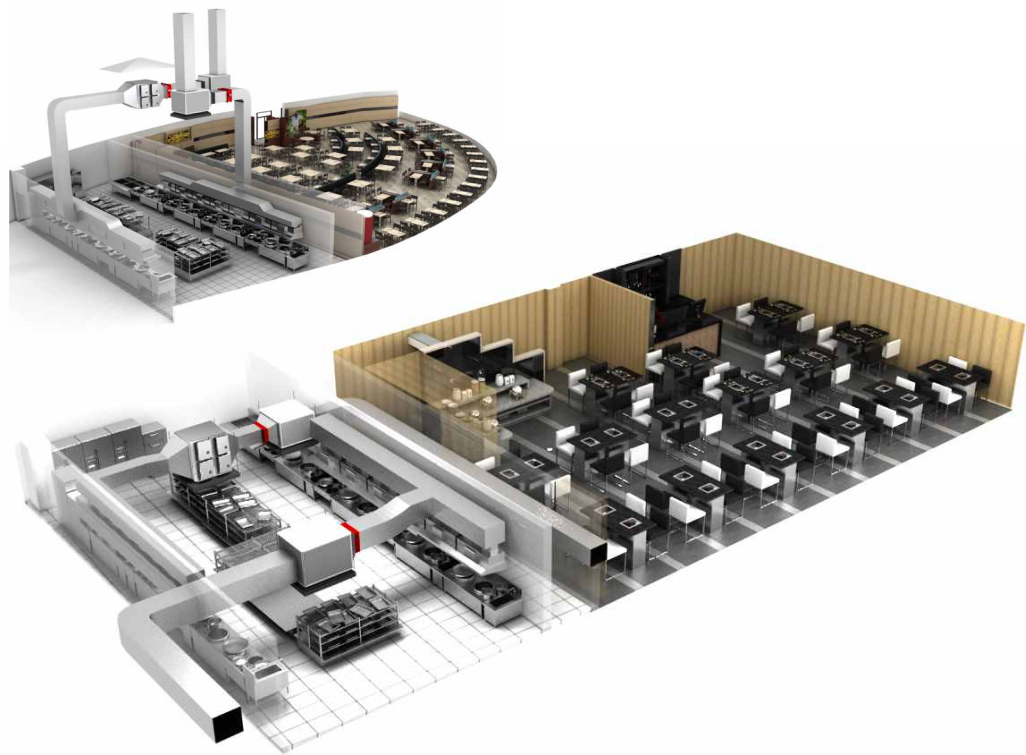


We Clean the Air



CE



Commercial Kitchen Ventilation Emission Control Solution

- Electrostatic Precipitator (ESP)-Hybrid Filter
- Hybrid Hood with Ecology Unit
- UV Odour Eliminator/Activated Carbon Filter

210pcs

National Patents

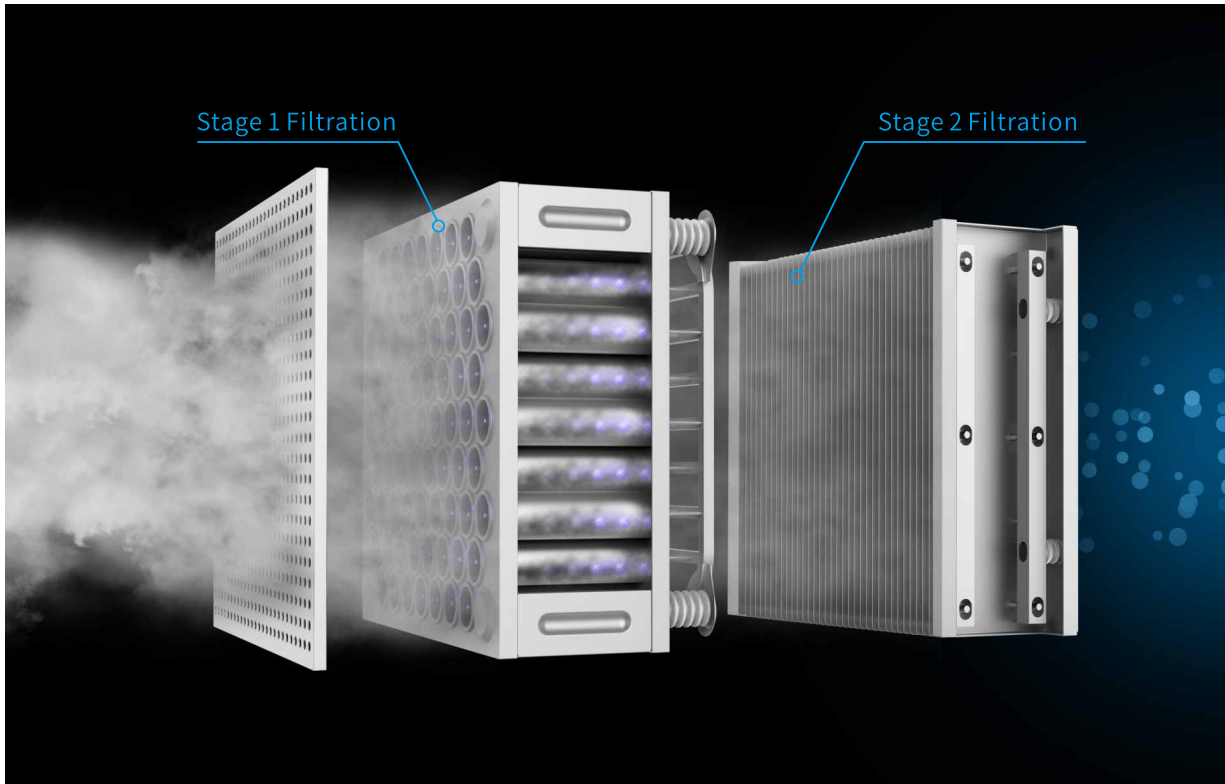
86

Exported to 86 countries

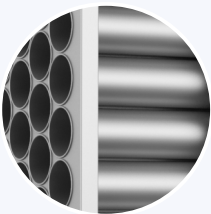
Standard

Local standard setter

Hybrid Tube-Plate ESP filter

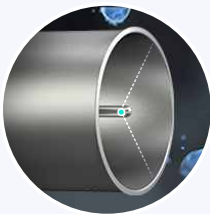


Eliminates up to 98% of Smoke Particles



SUS Tubular ESP Filter

Typical KLEAN Tubular ESP Filter design with increased collection area, currently KLEAN’s most efficient cell.



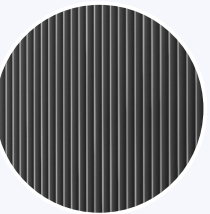
Uniform Electric Field Intensity

Ionizers are in the axial center of the collectors, resulting in better discharging uniformity and higher electric field intensity.



Stage 1 Filtration

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



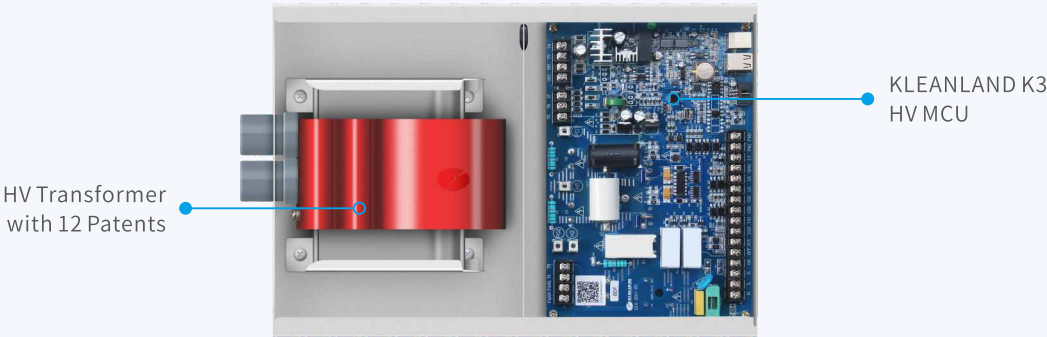
Stage 2 Filtration

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

Dual Output KLEAN Digital HV Power Pack

Arc will be Suppressed within 0.00001 second

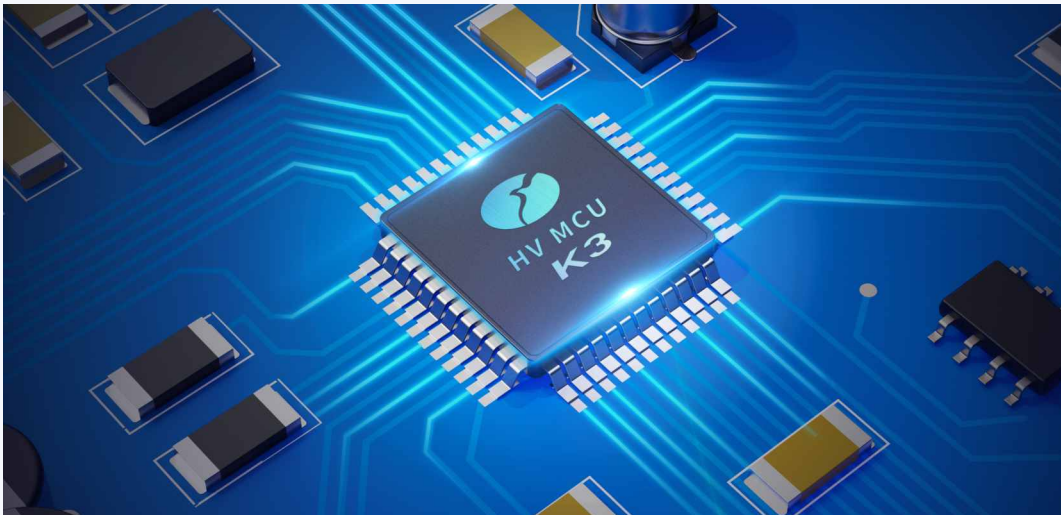
Patented Sampling of Secondary Voltage and Current, Voltage and Current put under Closed-Loop Control



- 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 HV MCU

Real-time Filter Management on WeChat Mini Program (Optional)



- PC/Phone/HMI/Add-on Scanner Interfaces
- High Precision
- Data Sampling and Storage
- Secondary Current Setting
- Multiple Operating Modes

ESP with Hybrid Filter

SPECIALY DESIGNED FOR COMMERCIAL COOKING ESTABLISHMENTS

Efficient

Safe

Stable

Durable

Well-ventilated IP55 Electrical Enclosure

Pure Polyester Powder Coating

Digital Display Panel

KLEAN Digital HV Power Pack

Perforated Prefilter

KLEAN Tubular Filter Cell

Feed-through Insulator

Double Enclosure Safety

Drain Pan

KLEAN Plate Filter Cell

98%
Highly Efficient

SUS304 Hybrid Filter

Dual HV Output

Compact Size

A36
Status Visualization

IP55 Electrical Enclosure

Double Enclosure Safety

Optional kCloud Service

Features and Benefits

Digital Display Panel
Status readings and diagnostic reminders are displayed in real-time.

Digital Controller (Optional)
Status visualization, on/off switching, work current adjustment and operating modes selection are made easy.

Feed-through Insulator
Features industrial grade creepage distance on the surface and special damper inside to withstand HV oscillation.

Oil Drain Pan
Increased volume of the oil drain pan helps prolong service cycle of the filter.

Keylocking Door Latch
Door latch with locking mechanism prevents unauthorized personnel from accessing the filter cell and ensures added safety.

IP55 Electrical Enclosure
Enhances the filter's environmental adaptation in high temperature and high humidity conditions.

Double Enclosure Safety
Magnetic door switch coupled with computerized programme to ensure safety during operations on live parts.

Rodent-proof Cable Entry Seal
Rodent-proof seal is used at the cable entry of the filter to protect.

UV Odour Eliminator

To be installed 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

Malodorous Gas Molecules

External Surface

Internal Surface

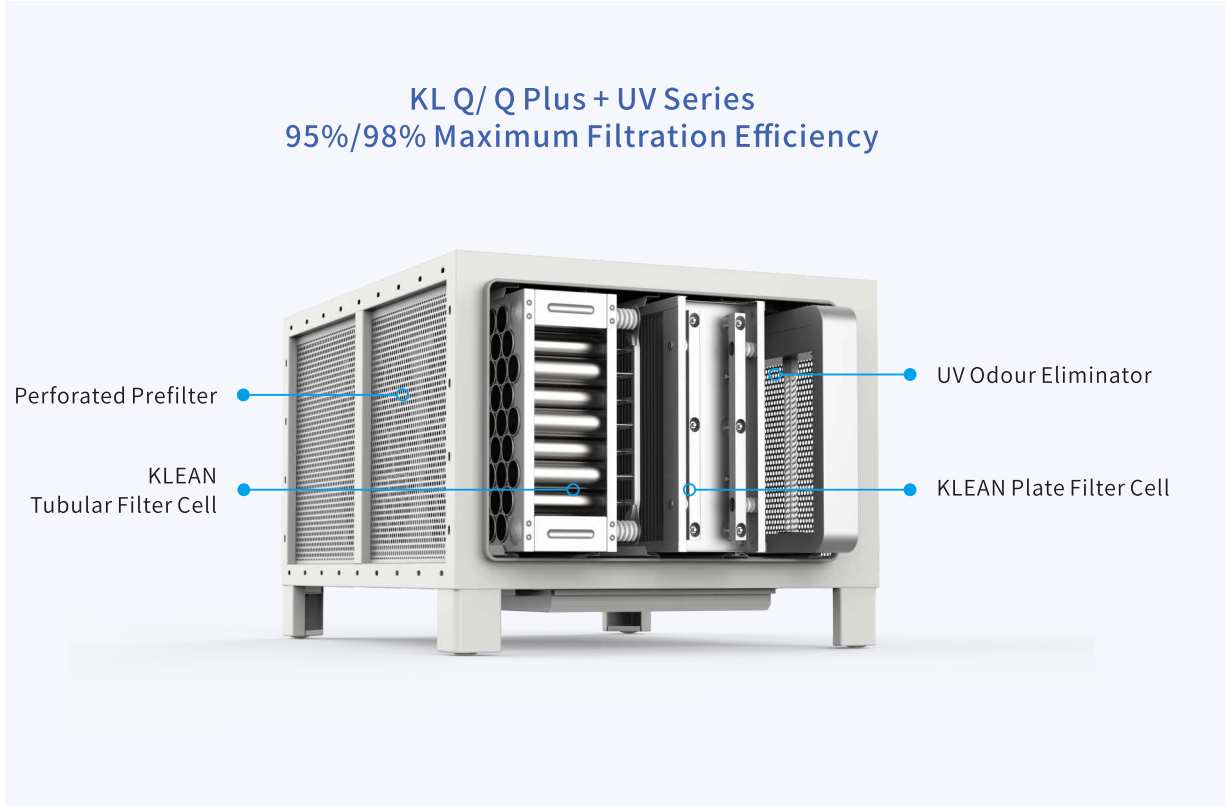
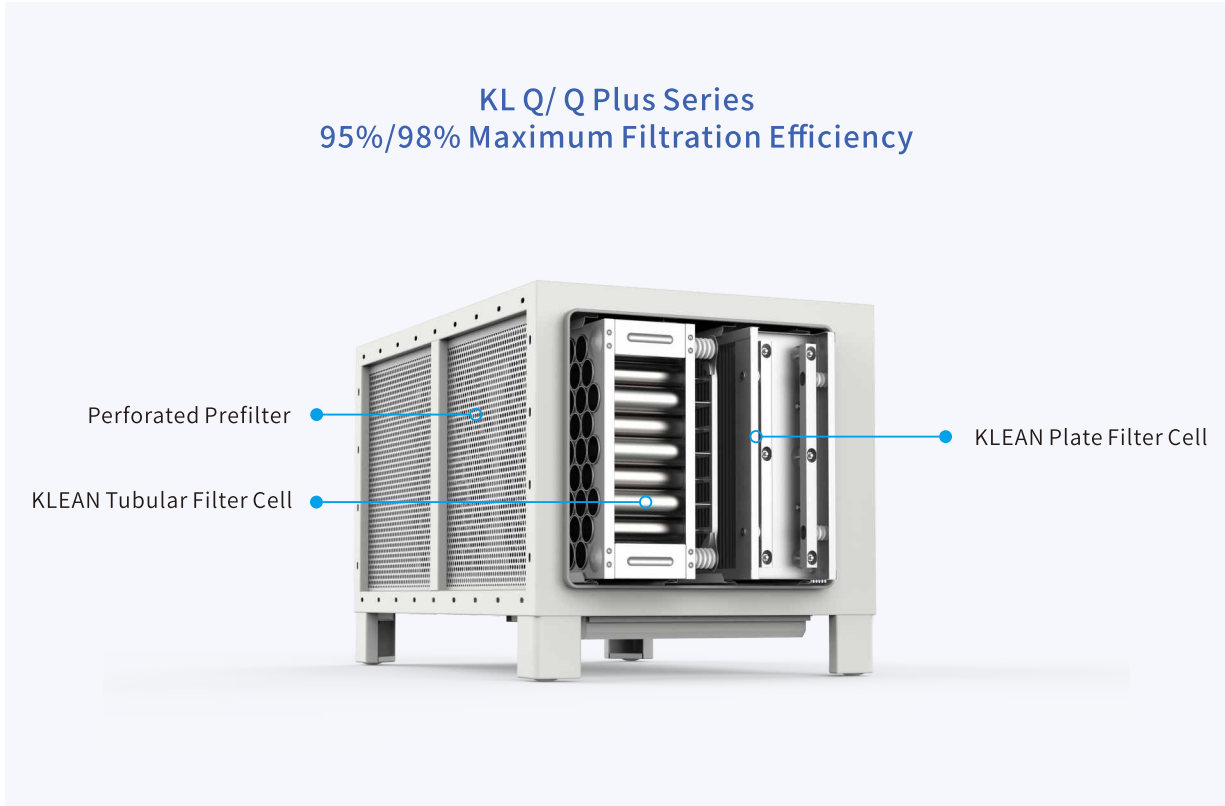
Pore Structure

How does Activated Carbon Adsorption Work

07

08

Typical Configurations



KL Q Plus Series | Low Level Discharge, Heavy Load Cooking
98% MAXIMUM FILTRATION EFFICIENCY AT RATED AIRFLOW UNDER LAB CONDITIONS

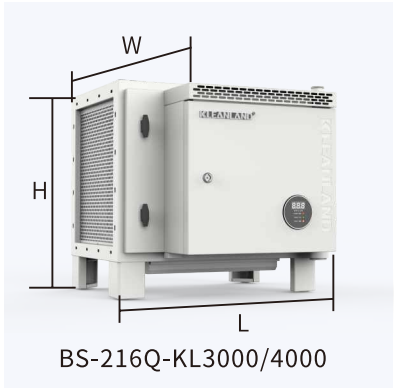
**4000

**6000

**8000

Model	Rated Airflow (m³/h)	Rated Airflow (CFM)	Dimension (mm) L×W×H	Vent Size (mm)	Power (w)	Weight (kg)
BS-216Q-KL3000	3000	1775	747×743×690	417.5×485.5	175	84
BS-216Q-KL4000	4000	2367	747×799.5×734.5	474×530	211	92
BS-216Q-KL6000	6000	3550	747×1231×690	905.5×485.5	271	124
BS-216Q-KL8000	8000	4734	747×1343.5×734.5	1018×530	335	140
BS-216Q-KL10000	10000	5917	747×1719×690	1393.5×485.5	820	164
BS-216Q-KL12000A	12000	7101	747×1887.5×734.5	1562×530	1014	190
BS-216Q-KL12000	12000	7101	747×1231×1275.5	905.5×1071	1091	250
BS-216Q-KL16000	16000	9467	747×1343.5×1364.5	1018×1160	1225	285
BS-216Q-KL20000	20000	11834	747×1719×1275.5	1393.5×1071	1640	330
BS-216Q-KL24000	24000	14201	747×1887.5×1364.5	1562×1160	2028	385
BS-216Q-KL28000	28000	16568	747×1719×1861	1393.5×1656.5	2654	500
BS-216Q-KL36000	36000	21302	747×1887.5×1994.5	1562×1790	3042	575
BS-216Q-KL48000	48000	28402	747×1887.5×2624.5	1562×2420	4056	770

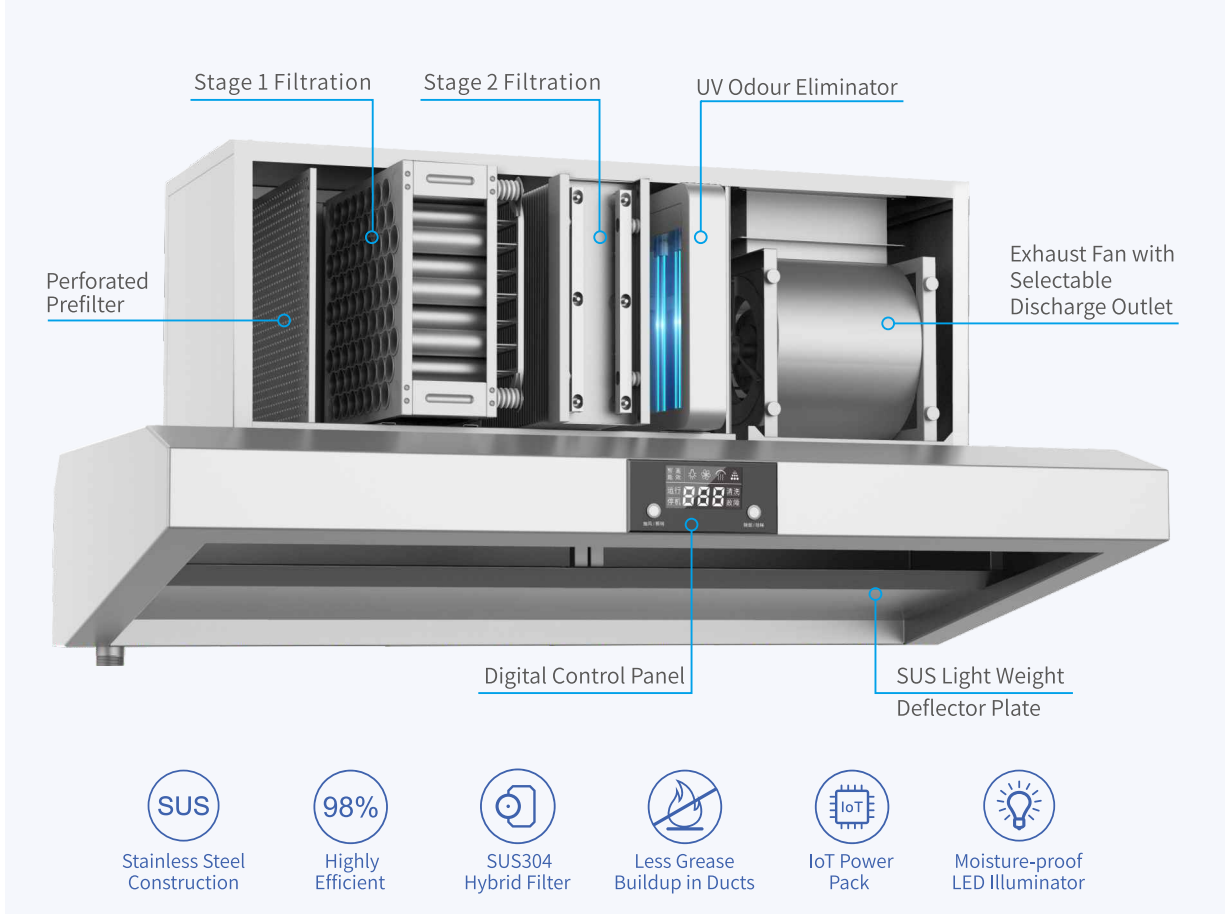
Note: Images and specifications are for reference only and are subject to change without prior notice.
The oil drain pain has a DN25 drain connection.



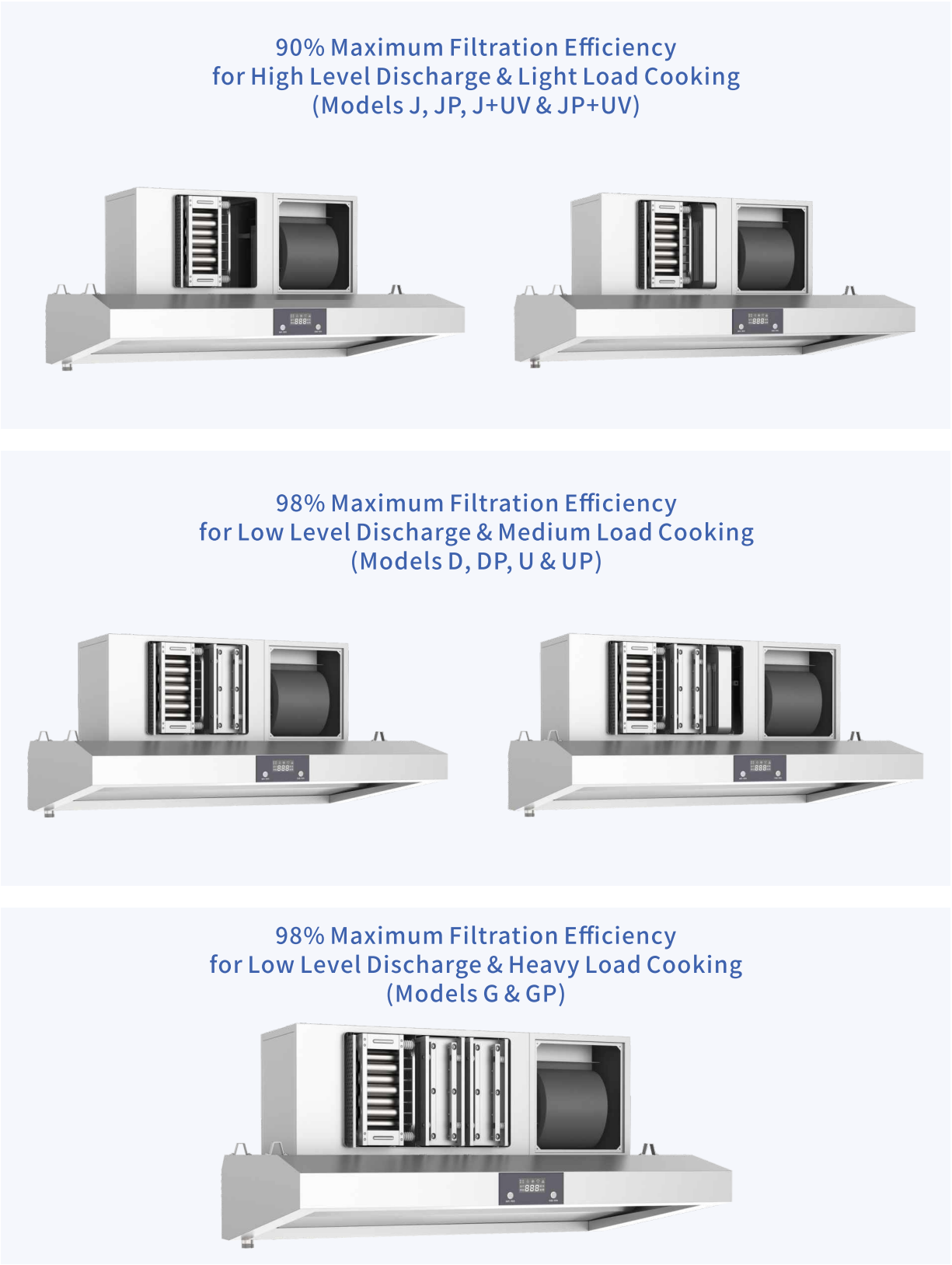
Hood with Ecology Unit

98% MAXIMUM FILTRATION EFFICIENCY AT RATED AIRFLOW UNDER LAB CONDITIONS

At Source Emission Treatment, Hassle Free Restaurant Operation



Typical Configurations



Features & Benefits



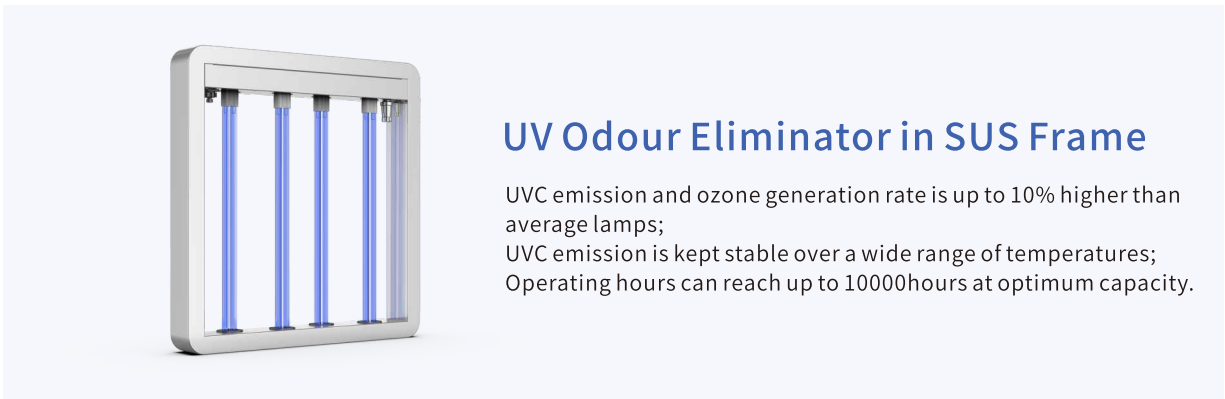
Digital Control Panel

Digital display of 16 statuses, including self-diagnosis of faults, is available for optimum ease of use;
Physical buttons are attached to ensure tactile feedback, lowering the possibilities of misoperation or button failure on virtual controls.



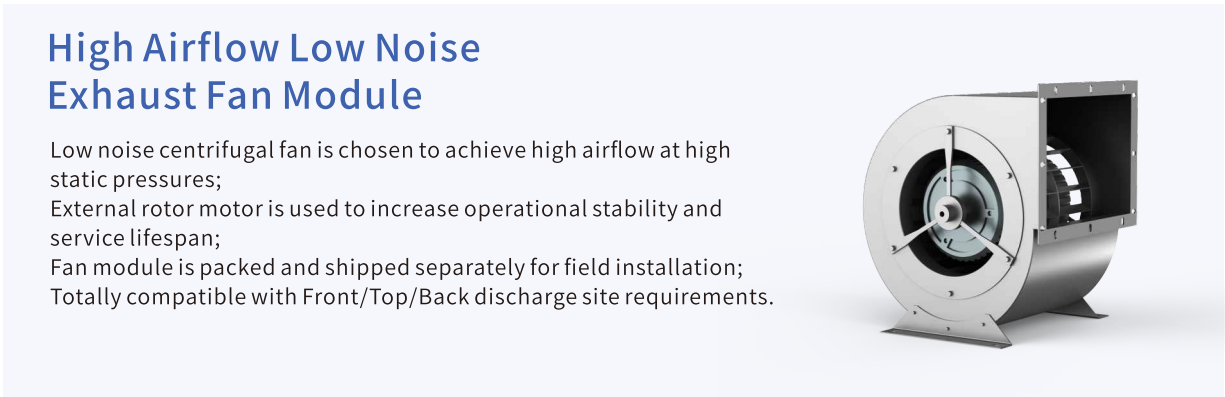
Meticulously Chosen LED Illumination

Aluminum alloy lamp base and tempered glass lamp cover protect the illuminator against hostile working conditions, such as high content of moisture and grease and high temperature.



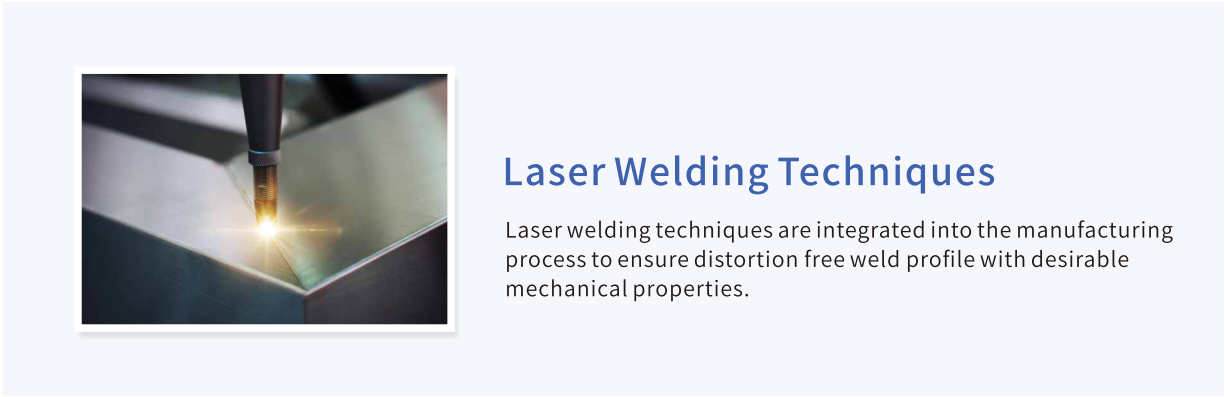
UV Odour Eliminator in SUS Frame

UVC emission and ozone generation rate is up to 10% higher than average lamps;
UVC emission is kept stable over a wide range of temperatures;
Operating hours can reach up to 10000hours at optimum capacity.



High Airflow Low Noise Exhaust Fan Module

Low noise centrifugal fan is chosen to achieve high airflow at high static pressures;
External rotor motor is used to increase operational stability and service lifespan;
Fan module is packed and shipped separately for field installation;
Totally compatible with Front/Top/Back discharge site requirements.



Laser Welding Techniques

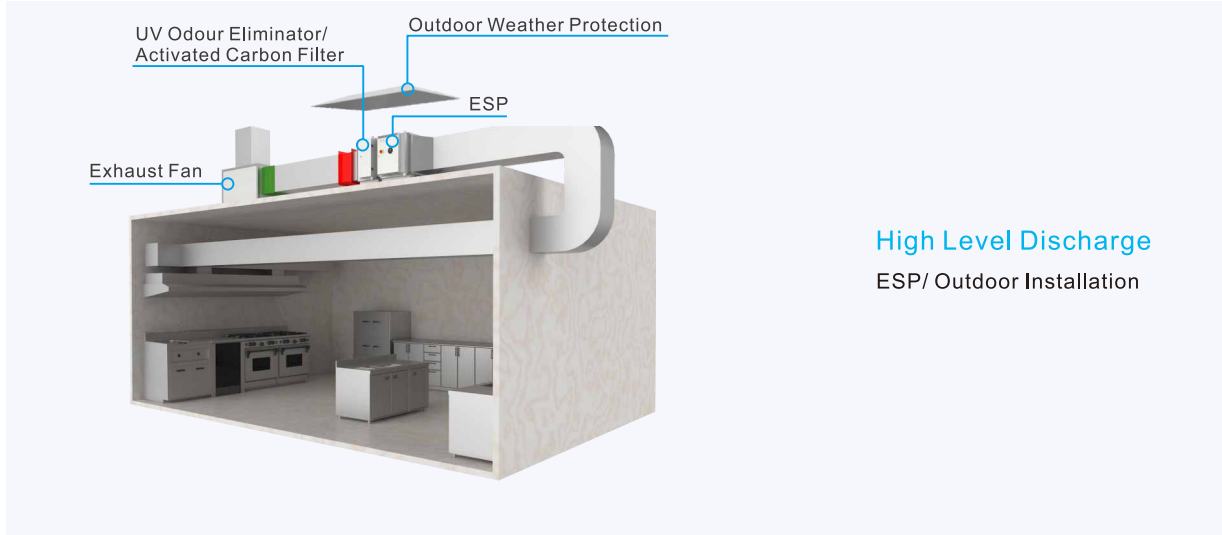
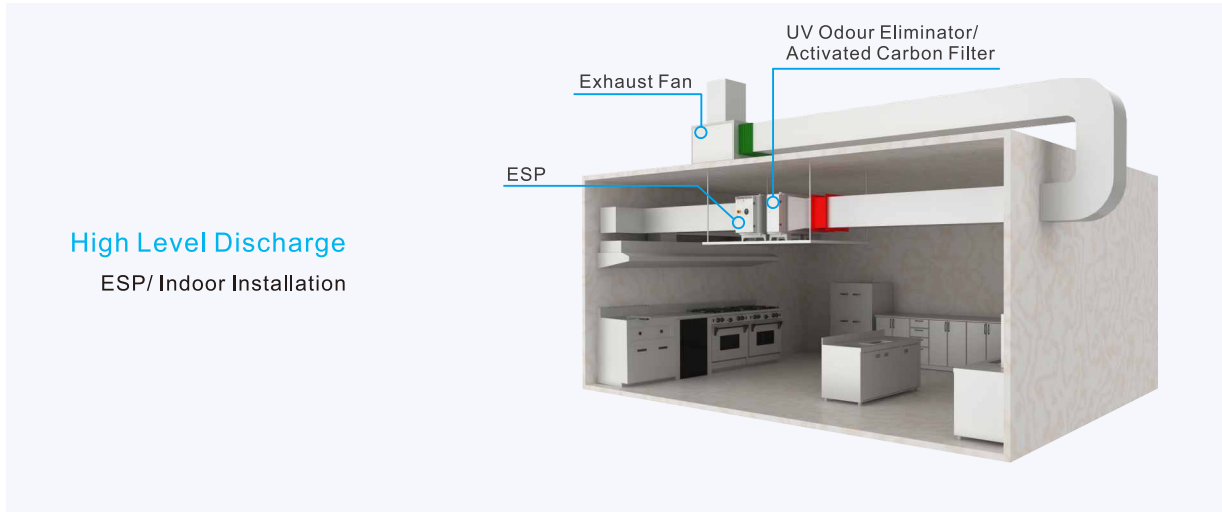
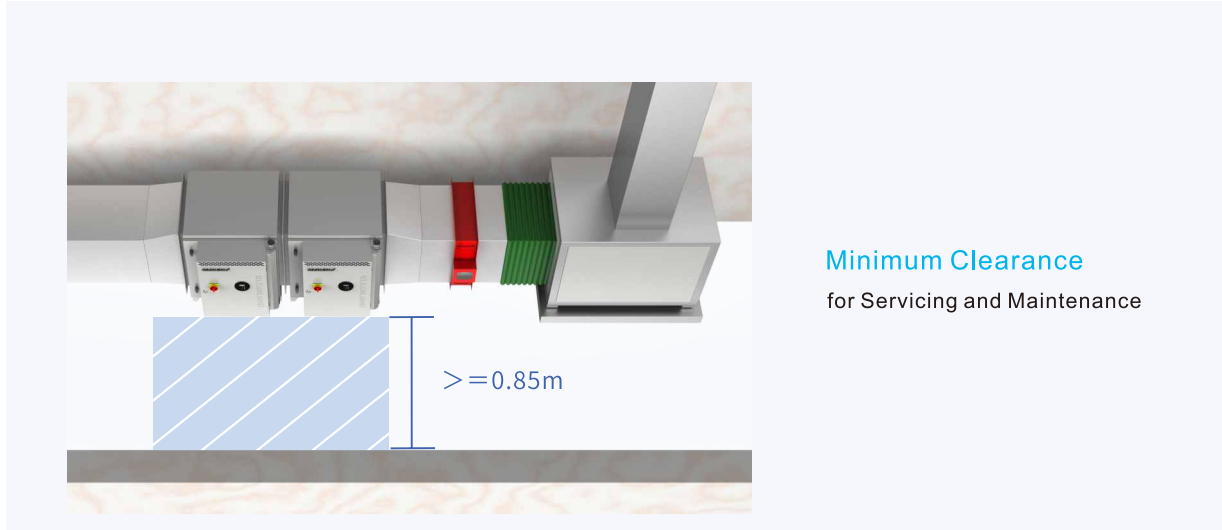
Laser welding techniques are integrated into the manufacturing process to ensure distortion free weld profile with desirable mechanical properties.



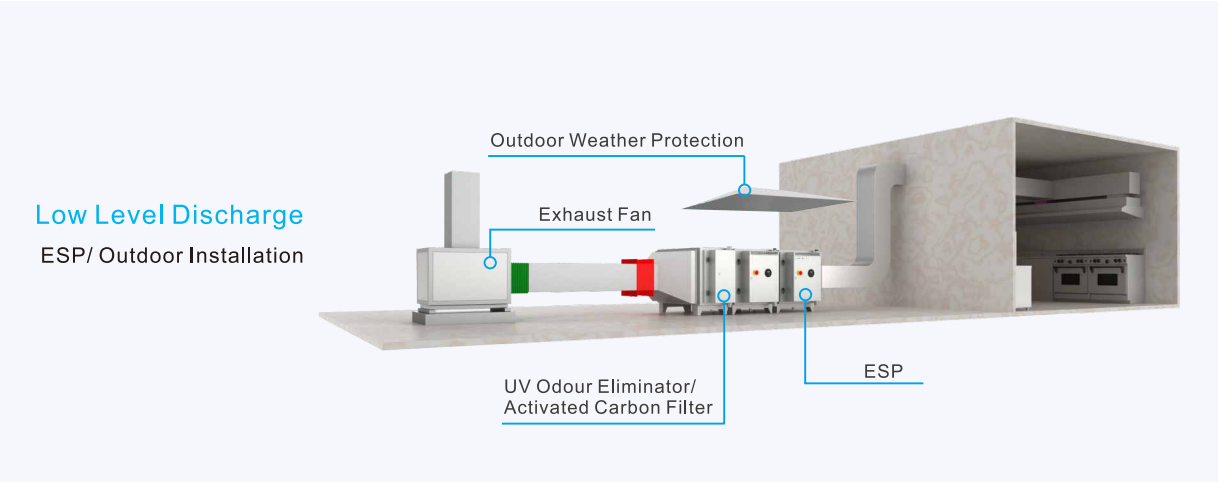
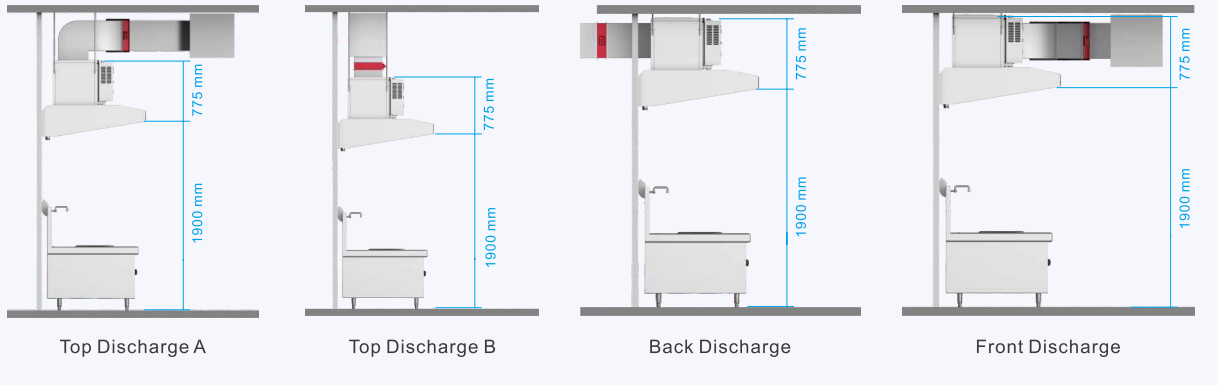
Surface Finishing Techniques

A brushed finish is added to the unit with custom-made machines, making it a fine addition to the collection of your five-star appliances.

Recommended Installation



Low Level Discharge
Hybrid Hood/ Indoor Installation
Minimum Ground Clearance: 1.9 meter



Note: Additional fan is required if exhaust duct size is over 300×300mm, system air velocity is over 8m/s, total duct length is over 5m, over 2 bends along ductwork, or over 2 hybrid hoods sharing the same ventilation system.

33



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Photo Gallery

