



南宁市绿城环保设备有限责任公司
Nanning Lvcheng Environmental Protection Equipment Co., Ltd

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catering oil fume purifier

Industrial Oil Mist collector (ESP)

Township domestic garbage harmless treatment system

A modern glass skyscraper with a blue and green logo on its facade. The image is partially obscured by large, dark blue geometric shapes in the foreground.

Use technology to make the sky more blue

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Industrial Oil Mist collector (ESP)

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harmless treatment system

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COMPANY PROFILE

Founded in 2008, Nanning Lvcheng Environmental Protection Equipment Co., Ltd. Nanning Lvcheng Environmental Protection Equipment Co., Ltd was founded in 2008 . is located in Wuxiang New District (National New District), Nanning, China. It is a high-tech environmental protection company integrating R&D, production and sales. The company has long-term technical cooperation with a number of colleges and universities. The low-temperature pyrolysis system for domestic waste developed by the company has obtained 2 invention patents and 5 utility model patents. It has the advantages of obvious volume reduction, low investment, low operating cost and long service life. Its exhaust emissions meet national emission standards.

The company has passed ISO9001 quality management certification, products passed the CE certification, and has a number of independent intellectual property rights. The company strives to create a world-leading electrostatic fume purification equipment with high efficiency and energy saving. The intelligent high-power high-frequency high-voltage power supply developed by the company has the advantages of large power, small temperature rise and long life. We not only apply it to our own electrostatic purifiers and organic waste gas low-temperature plasma purifiers, but also provide supporting power for organic waste gas treatment equipment of many domestic environmental protection companies. Because there is a core technology, Lvcheng Environmental Protection can give you best service!

Our products sell well both at home and abroad. The market share of the range hood purifiers in the Macau market is far ahead. We have exported to Europe and Southeast Asian countries. We have a good reputation in the high-end market at home and abroad.

Quality - the key to gaining trust, the key to success in competition, is the starting point for never-ending pursuit and dignity.



honorary titles

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Enterprise Qualification



OUR TEAM

To promote the development of enterprises , we should formulate preferential policies to recruit and introduce talents first . Our Nanning Lvcheng Environmental Protection Equipment Co., Ltd. plans to recruit college degree and bachelor degree , and chooses two-ways , forming a good employer who can enter and exit , be free and relaxed, get what they want, and live in harmony environment . This is the guarantee of enterprise development .

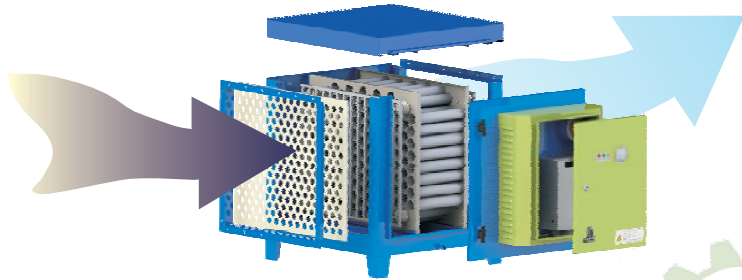
At present, we have more than 10 product research and development research workers, more than 100 production elites and more than 10 top sales. We implement an advanced talent management model and an advanced production management model, innovate talent management concepts. We establish a strong sense of talent and pay attention to the cultivation of talents. Provide the best platform for employees and grow with them .

The employing principle of Nanning Lvcheng Environmental Protection Equipment Co., Ltd. : value talented people .

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New patent honeycomb fume collectors , which allow machines reach higher purification rate



Patent intelligent control system

20 years research and development of high-voltage switching power supply , obtained CE certification, new scientific research technology , imported materials for three anti-treatment. The users do not have to worry about the oil smoke anymore. The power supply has been tested in the condition of 80-degree high temperature in 24 hours continuous. By these strict testing , we make sure to create a safe and generation reliable power system

Intelligent Power Supply Control System

Adopt STM32 digital intelligent chip, with soft start, constant current output, overload protection, short circuit protection, no-load protection, electric field discharge multiple shutdown protection and electric field inspection , high voltage stop output protection , over temperature protection, etc. ensure the normal operation of the equipment and the personal safety of the operators.

Digital display

Various working conditions are easy to observe

3D cooling high voltage transformer

The structure design is novel and reasonable, which assure the temperature raising very slowly in working condition. The quality is excellent, and the service life can be as long as 10 years .

electrolytic separation

Strong blue tip discharge, higher fume purification rate , and resolve of most of oil smell

patented electrostatic honeycomb with the cathode needle is fixed at both ends

new patented cathode needle fastened on both sides , combine with traditional cylindrical honeycomb collectors , ensure equipment work stability. The collectors are not easy to be deformed , easy to clean .

Ceramic Insulation Pillar

High temperature sintering, long life alumina insulating pillar, oil and pollution resistance, safety and reliability

modular design

modular design, can be assembled easily and meet the environmental requirements of each period, and easy to maintain.

Portable environment friendly smokeless barbecue trolley



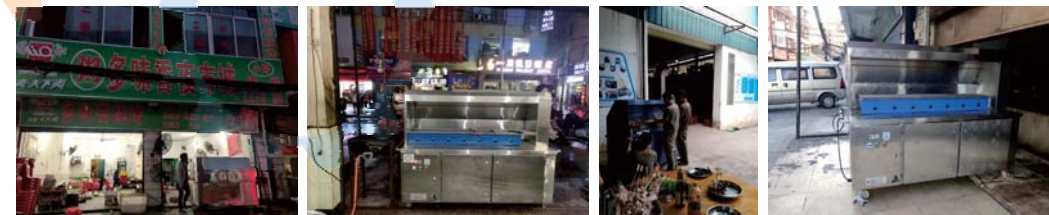
Product features and application range

- 98% Purifying Rate , 90% odor removal rate
- 3D high frequency high voltage transformer , intelligent high voltage power supply , high voltage output safety protection
- High-quality low-noise fan , residential area , street-side open-air barbecue , there is no longer disturbs people
- High quality and flexibility wheels
- widely used in open-air barbecues, narrow kitchen spaces and other place

Product Specification

Model	Power (W)	Size (mm) L × W × H	suitable size length for charcoal stove (mm)	weight (kg)
LCA-4SK	1250	2030 × 845 × 1500	1500	156

Note: The charcoal stove is not included



Super-low altitude discharge catering oil fume purifier (over 98% Purifying Rate)

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product description

The electrostatic fume purification technology utilizes electrons emitted from a cathode in a high-voltage electric field and negative ions generated by electrons colliding with air molecules to capture oil mist particles. Electrons and negative ions can make the oil mist particles charged, and there is an invisible electric field force in the high-voltage electric field, which causes the charged oil mist particles to move toward the anode and finally adsorb on the anode, thereby achieving the purpose of removing the oil mist.

Product features and application range

- 98% Purifying Rate,90%odor removal rate,100% Super-low altitude discharge
- 3D high frequency high voltage transformer ,intelligent high voltage power supply ,high voltage output safety protection
- widely used in Catering industry, airport, large supermarkets, high-class shopping malls, pedestrian streets, residential area, barbecue shops, etc. Location-sensitive restaurant , food fume purification industry

Product Specification

Model	Air flow (m ³ /hr)	Size L*W*H (mm)	flange (inner)A1*A2	weight (kg)	Power (W)
LCA-4B	4000	1495×1025×790	615×523	1300	820
LCA-6B	6000	1495×1120×905	714×638	1800	1200
LCA-8B	8000	1495×1325×1025	917×758	2450	1560
LCA-10B	10000	1550×1555×1040	1152×764	3000	1800
LCA-12B	12000	1550×1555×1140	1152×862	3500	1900
LCA-14B	14000	1550×1385×1455	981×1177	4500	3280
LCA-16B	16000	1550×1440×1455	1038×1177	5800	3600
LCA-20B	20000	1550×1555×1455	1152×1177	6600	3700
LCA-24B	24000	1550×1600×1605	1197×1330	7200	3800
LCA-28B	28000	1550×1800×1605	1394×1330	7800	3900
LCA-32B	32000	1550×1995×1605	1592×1330	8700	4000
LCA-36B	36000	1550×2175×1615	1775×1340	9600	4100
LCA-40B	40000	1550×2375×1615	1972×1340	11000	4200
LCA-46B	46000	1550×2220×1840	1800×1576	13600	4300
LCA-50B	50000	1550×2210×2055	1807×1780	16500	4400

Note : 1. The above parameters are for reference only and subject to change without notice.
2. Special models or occasions are customized



Note : The above pictures are for reference only if you would like to know the latest details, please kindly contact us.

Catering electrostatic oil fume purifier (over 90% Purifying Rate)

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product description

The electrostatic fume purification technology utilizes electrons emitted from a cathode in a high-voltage electric field and negative ions generated by electrons colliding with air molecules to capture oil mist particles. Electrons and negative ions can make the oil mist particles charged, and there is an invisible electric field force in the high-voltage electric field, which causes the charged oil mist particles to move toward the anode and finally adsorb on the anode, thereby achieving the purpose of removing the oil mist.

Product features and application range

- 90% Purifying Rate, 80% odor removal rate, 100% Super-low altitude discharge
- 3D high frequency high voltage transformer ,intelligent high voltage power supply ,high voltage output safety protection
- Widely used in catering industry, airports, large supermarkets, high-class shopping malls, pedestrian streets, residential quarters, barbecue shops , food processing industry etc , and some less sensitive Locations

Product Specification

Model	Air flow (m ³ /hr)	Size L*W*H (mm)	flange (inner)A1*A2	weight (kg)	Power (W)
LCA-4A	4000	850×840×840	479×566	800	430
LCA-6A	6000	850×1020×920	657×643	1000	580
LCA-8A	8000	850×1400×860	998×586	1100	620
LCA-10A	10000	850×1325×1040	922×764	1300	750
LCA-14A	14000	850×1550×1040	1150×764	1550	800
LCA-16A	16000	850×1550×1140	1152×863	1800	920
LCA-18A	18000	850×1380×1455	980×1177	2300	1150
LCA-20A	20000	850×1440×1455	1040×1171	3000	1300
LCA-24A	24000	850×1555×1455	1152×1177	3350	1500
LCA-30A	30000	850×1600×1605	1197×1330	3700	1620
LCA-36A	36000	850×1795×1605	1394×1330	3950	1680
LCA-40A	40000	850×1995×1605	1592×1340	4400	1720
LCA-48A	48000	850×2175×1615	1774×1342	4900	1790
LCA-56A	56000	850×2375×1615	1972×1340	5600	1860
LCA-62A	62000	850×2210×1860	1807×1582	6800	1900
LCA-70A	70000	850×2210×2055	1807×1780	8200	1920

Note : 1. The above parameters are for reference only and subject to change without notice.
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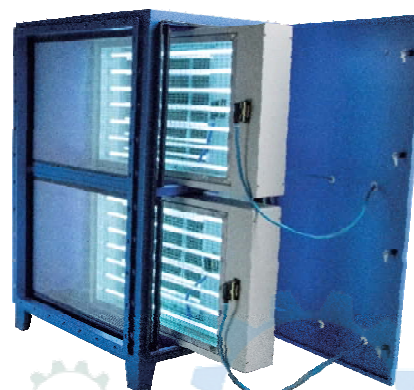


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UV photolysis purifier

The UV photolysis catering oil fume purifier, It is mainly applied to the purification and treatment of oil smoke pollution gas in hotels, restaurants, restaurants, canteens and other places.

- ISO Quality Certification
- long service life
- low light decay
- low operation cost
- high odor removal rate



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long service life

Up to 13,000 hours

Low light decay

UV intensity attenuation less than 30% during the life cycle

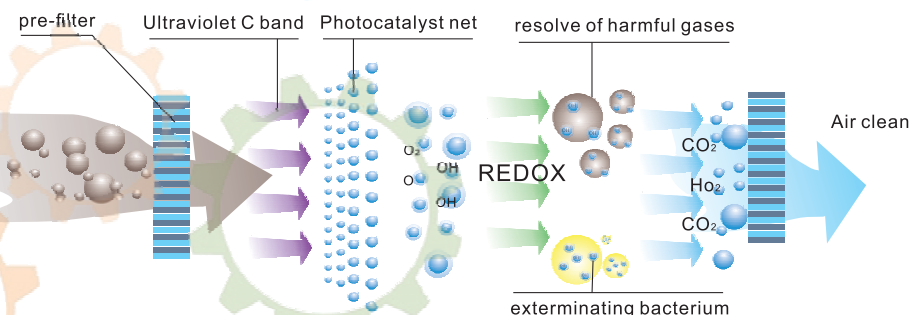
High UV output

The lamp adopts 99.98% high purity quartz tube, high UV transmittance

Moisture-proof electronic

Moisture-proof and anti-condensation, suitable for catering kitchen, high-smoke and high-steam environment

Purification process



The first process: photolysis

UV photolysis purifier have several ultraviolet light generating arrays inside. When the toxic and odorous high molecular substances are introduced into the UV photolysis purifier, these toxic and odorous polymers are rapidly decomposed under intense ultraviolet irradiation. The molecular chain of the molecule is broken and decomposed into small molecular groups.

The second process: oxidation

The decomposed small molecular group oxidizes with oxygen in the air under the catalysis of light of a specific frequency and photocatalyst to form a non-toxic small molecular substance. At the same time, a small amount of oxygen in the air is also catalyzed by ultraviolet light to generate ozone. The ozone has strong oxidizing properties, which can oxidize small molecules that are decomposed into odor, and produce odorless and harmless small substances, thereby greatly decreasing the odor or disappear completely.

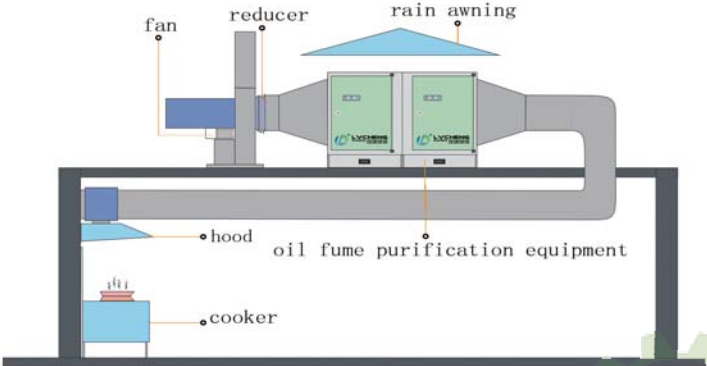
The third process: catalyze

A catalytic array is provided between the arrays of ultraviolet light generators. The catalytic array consists of a catalytic substrate and a photocatalyst. The photocatalyst is fixed by a catalytic matrix. When the nano-sized photocatalyst ultra-micronized particles are exposed to ultraviolet light, the oxygen and moisture adsorbed on the surface are activated to generate a highly reactive hydroxyl radical OH^{\cdot} , peroxyl radical HO_2^{\cdot} , oxanion radical $\text{O}_2^{\cdot-}$ and other active free radicals, these active free radicals and ozone have extremely short life and strong oxidizing properties. Under the dual action of ozone and these active free radicals, the small molecular groups after photolysis are rapidly catalyzed and biooxidation occurs, producing water (H_2O) and carbon dioxide (CO_2) and other small molecular substances, to achieve sterilization, odor removal, mildew proof, decontamination and self-cleaning, purification of smoke.

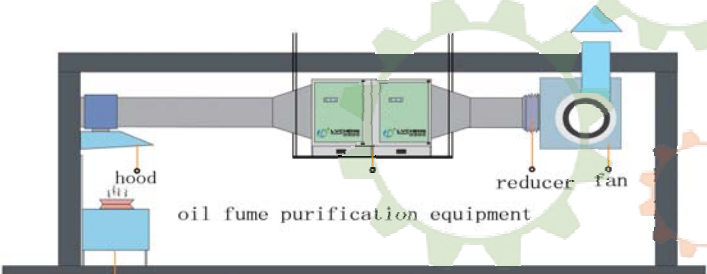
Product Specification

Model	Air flow (m ³ /hr)	Size L*W*H (mm)	flange (inner) A1*B1	weight (kg)	Power (W)
LCA-U6	6000	750×825×785	515×555	50	170
LCA-U8	8000	750×825×785	515×555	50	225
LCA-U10	10000	750×1120×785	810×555	60	480
LCA-U12	12000	750×1120×785	810×555	60	640
LCA-U14	14000	750×1420×785	1110×555	65	720
LCA-U16	16000	750×1420×785	1110×555	65	960
LCA-U20	20000	750×1120×1395	810×1165	70	1080
LCA-U24	24000	750×1120×1395	810×1165	70	1280
LCA-U28	28000	750×1420×1395	1110×1165	80	1440
LCA-U32	32000	750×1420×1395	1110×1165	80	1920
LCA-U36	36000	980×1420×1395	1110×1165	80	2160
LCA-U40	40000	980×1420×1395	1110×1165	80	2880

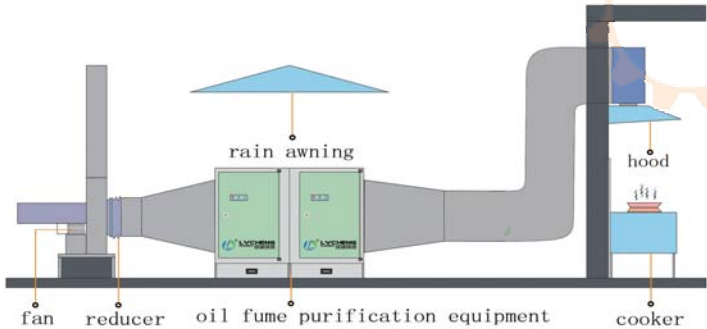
Note: Special models or occasions are customized



Roof installation diagram



Indoor installation diagram



Outdoor installation diagram

Hood type oil fume purification equipment



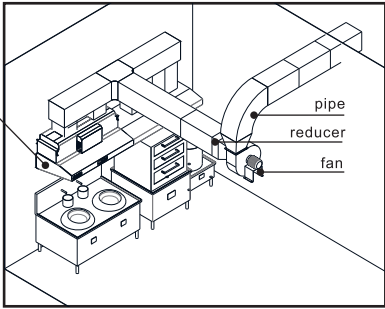
- 1 98% Purifying Rate,90%odor removal rate,100% Super-low altitude discharge
- 2 3D high frequency high voltage transformer ,intelligent high voltage power supply ,high voltage output safety protection
- 3 Install directly above the stove, to save on the cost of the hood
- 4 The fume collectors can be pulled out from hood directly, easy to maintain and save space
- 5 Cylindrical fume collectors structure ,large oil collection area, ionization uniform and strong

Product Specification

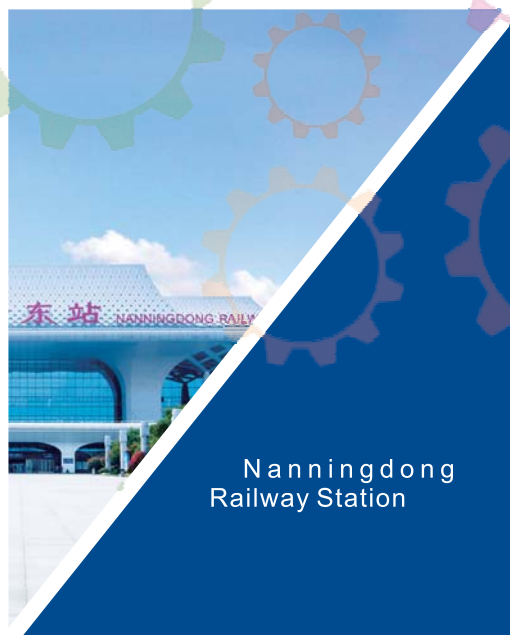
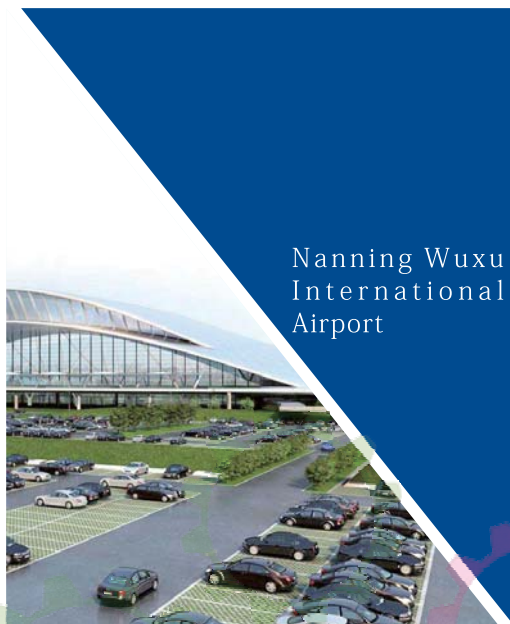
Model	Air flow (m³/h)	Resistance (Pa)	Power (W)	Size L*W*H (mm)	weight (kg)	material (optional)
LCA-4H	4000	150	680	1970×1146×903	175	201/304不锈钢

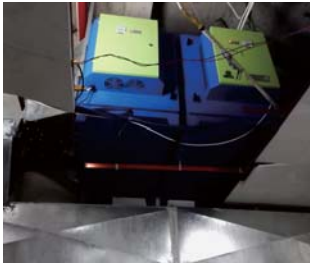


air flow is 4000m3/h, which is just suitable for a double-head stove.



COOPERATION



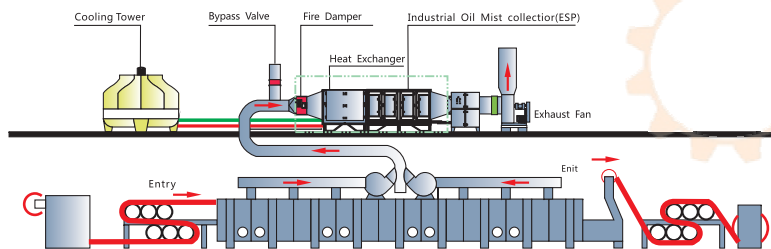


Industrial Oil Mist collector (ESP)

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- The fume removal rate $\geq 95\%$;
- The particle removal rate $\geq 95\%$;
- Easy to clean and maintain;
- Intelligent control;
- Electrical protection function;
- Fire monitoring fire extinguishing system;
- 3D high frequency high voltage transformer;
- Intelligent high voltage power supply;
- Open the door to close the high voltage output safety protection;



■ Artificial Leather Industry

■ Textile industry / PVC product line



Township domestic garbage harmless treatment system

>>> Technical indicators

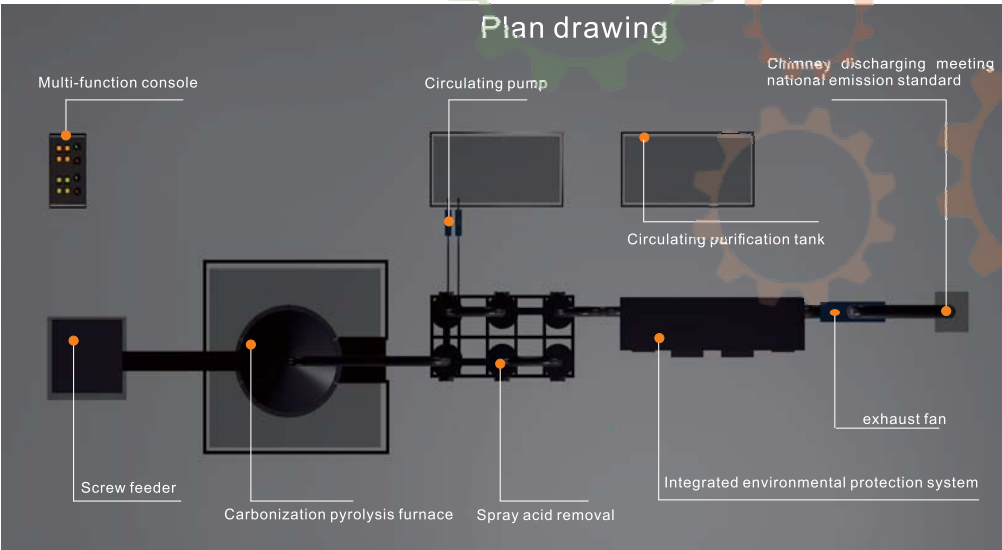
Project	Garbage pyrolysis temperature	Smoke retention time	Incinerator slag heat reduction rate	Combustion properties
Index	< 300°C	≥2S	5%	Anoxic combustion

>>> Pollutant emission limit

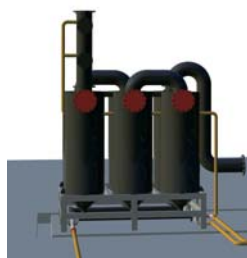
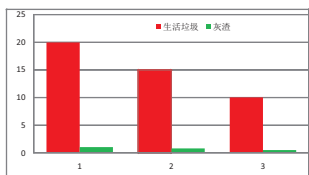
No.	Project	Unit	Determination method	GB18485-2014 Pollution control standards for domestic waste incineration
1	Particulates	mg/m ³	Measure the mean at 1 hour	30
2	Nitrogen oxides	mg/m ³	Measure the mean at 1 hour	300
3	Sulfur dioxide	mg/m ³	Measure the mean at 1 hour	100
4	Hydrogen chloride	mg/m ³	Measure the mean at 1 hour	60
5	Mercury and its compounds	mg/m ³	The determination of the mean	0.05
6	Septum, sputum and its compounds	mg/m ³	The determination of the mean	0.1
7	Heavy metals such as antimony, arsenic and chromium	mg/m ³	The determination of the mean	1.0
8	Dioxin	mg/m ³	The determination of the mean	0.1
9	Carbon monoxide	mg/m ³	Measure the mean at 1 hour	100



Domestic garbage is sent to an environmentally friendly pyrolysis furnace for pyrolysis by a screw feeder. After pyrolysis the volume is reduced by more than 95%. The high-temperature flue gas generated during the pyrolysis of the waste is sent to the spraying tower for cooling and acid removal, and the large particles of smoke (10-100 um) are removed too. The remaining small dust (less than 0.1um) is filtered out by an integrated environmental system. The odor is adsorbed by the activated carbon. After the standard treatment the flue gas is discharged by the chimney.



Technical advantages



Garbage reduction rate is over 95%

The sewage does not discharge with recycling water, and the scum can be directly returned to the furnace for pyrolysis.

It is low temperature and low oxygen pyrolysis, producing less harmful substances, and it is low cost of environmental protection treatment in the latter stage.

There is a patented spray cooling and pre-dusting system. The water is circulating, no secondary pollution. It has high efficiency on cooling and pre-dusting, no blockage.



24 hours operation, no personnel on duty at night.



There is no need to add auxiliary fuel, which can save operating costs.

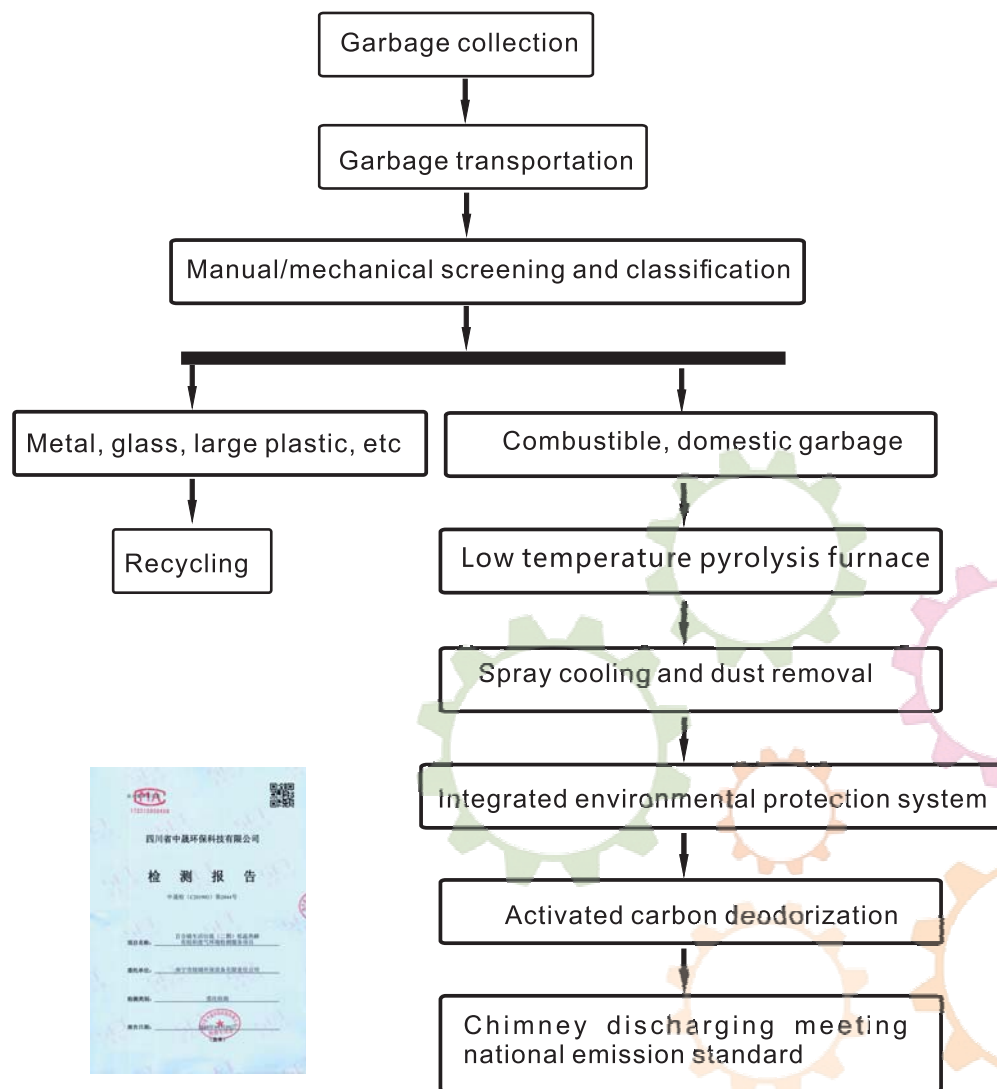


With the patented pyrolysis furnace structure, the garbage does not need to be broken, or fermentation. Put the dry and wet garbage directly in, and the waste pyrolysis is even and sufficient.



Use patented back-end environmental protection treatment system, no odor and smokeless emissions, and Chimney discharging meet the emission standards.





System parameters

Model	Processing capacity (t / d)	Power (KW)	Construction period
LCR-5A	5	5.4	2 months
LCR-10A	10	8.5	2 months
LCR-15A	15	12	3 months
LCR-20A	20	16	3 months



Operating costs

No.	Item	Quantity	Unit	Unit price	Daily total cost	Monthly total cost
1	Water fee	2	t/d	2	4	120
2	Electricity fee (8.5KW.h*24)	120	KW/h	0.5	102	1800
3	Staff salary	2	Staff salary			
4	Total	10.6RMB/t			106	1920
5	Operating costs	The cost is calculated by daily handling capacity of 10 tons				

