

Industrial Electrostatic Precipitator ESP



Industrial Electrostatic Precipitator is an efficient solutions to remove exhaust pollution from PVC Production Line, plasticizer (DOP, DBP, DINP), printing and dyeing, oil mist purification and recovery, industrial cooking, electronic solder smoke purification asphalt smoke industrial.

Features

- 1.High-efficiency: Over 98% oil mist particulates removal rate.
2. Flexible: Modular in design. Plate type collector cells are very easy to clean and maintenance.
3. Eco-friendly: Long life span, energy-saving.
4. Stable: Solid state high-frequency high-voltage transformer ensures adequate power to ESP.
5. Convenient: Remote control with movable power control cabinet, etc.
6. Safety: Automatic fire-suppression system. When internal fire is detected by system, power supply will be shut down to avoid accident.

Industrial Oil mist collector



Oil mist collector is an excellent choice to remove coolant mist, water mist and oil mist etc. Oil mist are from various processes such as brazing, casting, flame cutting, drilling, grinding, milling and attack.

Features: Maintain high productivity of equipmentProvides a healthy working environment for employeeCollector cell is easy to install, maintain and clean.Avoid breakdown electrical parts of machines that caused by oil mist.

Specification

Model	Air Flow (M/H)	Cabinet Size L*W*H (MM)	Flange Size (Diameter mm)	Removal efficiency Rate	Wind Resistance (PA)	Power (Watt)
DGRH-KC-1500	1000-1500	1065*680*735	Ø 200	98%	<100	160
DGRH-KC-2500	2000-2500	1515*740*770	Ø 200	98%	<100	210

Honor



Gallery



Please note that changes due to technology improvement, the changes in specification will not be notified.

METRICS - GREEN

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Kitchen & Industrial Exhaust Filtration Solutions
Professional Electrostatic Precipitator (ESP) Manafaturer

Features

- Up to 95% single pass (tested by ASHRAE 52.2-2017 –Meets MERV 15) / 99% double pass (self-calculated) smoke, grease particles removal efficiency rate
- Modular in design: Easy installation, maintenance and cleaning.
- Cost effective & eco-friendly: Long life-span, minimum maintenance energy-saving and space-saving.
- Intelligent PWM power control system: Electric intensity auto-control function ensures the unit maintains a high purification rate after a long time service.
- Safety and Stability: (1) Door-open power-off protection, (2) Over-current, voltage & temperature multi-protection
- Greatly reduces the grease accumulation in the ducts.
- Application: Commercial kitchen, restaurants, hotels, fast food restaurant, HVAC air system purification etc.



Spike designed Collector cell



PWM power supply



ESP



Coffee roaster ESP
DGRH-K-3500



DGRH-K Single Pass ESP With Oil Sump

NO.	Model	Air Flow (M ³ /H)	Cabinet Size L*W*H (MM)	Flange Size (W*H)	Efficiency	Pressure drop (Pa)	Power (Watt)	Net Weight (KG)	Remark
1	DGRH-K-3500(U)	3000-3500	640*765*690	485*530	95%	<60	120(200)	60	UV-C Optional
2	DGRH-K-7000(U)	6000-7000	640*1300*690	1020*530	95%	<60	220(520)	94	UV-C Optional
3	DGRH-K-10500(U)	9000-10500	640*1835*690	1560*530	95%	<60	320(920)	122	UV-C Optional
4	DGRH-K-14000(U)	12000-14000	640*1300*1380	1020*1220	95%	<60	440(1040)	188	UV-C Optional
5	DGRH-K-21000(U)	18000-21000	640*1835*1380	1560*1220	95%	<60	640(1840)	244	UV-C Optional
6	DGRH-K-31500(U)	27000-31500	640*1835*2070	1560*1950	95%	<60	960(2760)	366	UV-C Optional



DGRH-K Double Pass ESP With Oil Sump

NO.	Model	Air Flow (M ³ /H)	Cabinet Size L*W*H (MM)	Flange Size (W*H)	Efficiency	Pressure drop (Pa)	Power (Watt)	Net Weight (KG)	Remark
1	DGRH-K-2-3500(U)	3000-3500	1060*765*690	485*530	99%	<120	240(320)	120	UV-C Optional
2	DGRH-K-2-7000(U)	6000-7000	1060*1300*690	1020*530	99%	<120	440(740)	188	UV-C Optional
3	DGRH-K-2-10500(U)	9000-10500	1060*1835*690	1560*530	99%	<120	640(1240)	244	UV-C Optional
4	DGRH-K-2-14000(U)	12000-14000	1060*1300*1380	1020*1220	99%	<120	880(1480)	376	UV-C Optional
5	DGRH-K-2-21000(U)	18000-21000	1060*1835*1380	1560*1220	99%	<120	1280(2480)	488	UV-C Optional
6	DGRH-K-2-31500(U)	27000-31500	1060*1835*2070	1560*1950	99%	<120	1920(3720)	732	UV-C Optional



DGRH-KF Single Pass ESP Without Oil Sump

NO.	Model	Air Flow (M ³ /H)	Cabinet Size L*W*H (MM)	Flange Size (W*H)	Efficiency	Pressure drop (Pa)	Power (Watt)	Net Weight (KG)	Remark
1	DGRH-KF-3500(U)	3000-3500	640*765*690	485*530	95%	<60	120(200)	60	UV-C Optional
2	DGRH-KF-7000(U)	6000-7000	640*1300*690	1020*530	95%	<60	220(520)	94	UV-C Optional
3	DGRH-KF-10500(U)	9000-10500	640*1835*690	1560*530	95%	<60	320(920)	122	UV-C Optional
4	DGRH-KF-14000(U)	12000-14000	640*1300*1380	1020*1220	95%	<60	440(1040)	188	UV-C Optional
5	DGRH-KF-21000(U)	18000-21000	640*1835*1380	1560*1220	95%	<60	640(1840)	244	UV-C Optional
6	DGRH-KF-31500(U)	27000-31500	640*1835*2070	1560*1950	95%	<60	960(2760)	366	UV-C Optional



DGRH-KF Double Pass ESP Without Oil Sump

NO.	Model	Air Flow (M ³ /H)	Cabinet Size L*W*H (MM)	Flange Size (W*H)	Efficiency	Pressure drop (Pa)	Power (Watt)	Net Weight (KG)	Remark
1	DGRH-KF-2-3500(U)	3000-3500	1060*765*690	485*530	99%	<120	240(320)	120	UV-C Optional
2	DGRH-KF-2-7000(U)	6000-7000	1060*1300*690	1020*530	99%	<120	440(740)	188	UV-C Optional
3	DGRH-KF-2-10500(U)	9000-10500	1060*1835*690	1560*530	99%	<120	640(1240)	244	UV-C Optional
4	DGRH-KF-2-14000(U)	12000-14000	1060*1300*1380	1020*1220	99%	<120	880(1480)	376	UV-C Optional
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6	DGRH-KF-2-31500(U)	27000-31500	1060*1835*2070	1560*1950	99%	<120	1920(3720)	732	UV-C Optional

Auto-washing Electrostatic Precipitator System



Auto-washing ESP / EAC

PLC Control Box

Detergent Washing Systems

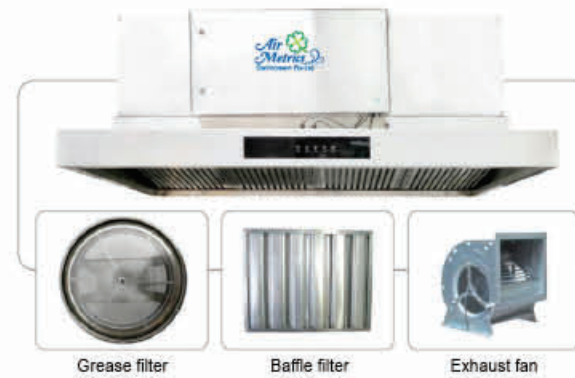
Features:

- The smart control unit makes it possible to automatically wash ESP modules at regular intervals. Effectively solving problems of inconvenient washing with ceiling installation.
- Time programming for every section of washing is available, so that custom washing procedure can be made in light of customer needs.
- The PWM power supply module makes the product more steady, safe and efficient;
- With a cleaning solution tank and pump valve system, product can clean better with warm water mixed. The smart control system can program 24*7;
- With high performance washing nozzles, spray cleaning solution can make grease swell and come off.



Model No.	DGRH-KG-3500	DGRH-KG-7000	DGRH-KG-10500
Air Flow (M ³ /H)	3000-3500	6000-7000	9000-10500
Cabinet Size L*W*H (MM)	850*765*830	850*1300*830	850*1835*830
Flange Size (W*H)	485*530	1020*530	1560*530
Collector Cell Qty (pcs)	1	2	3
ESP Efficiency	95%		
Pressure drop (Pa)	<60		
Running water flow requirements (L/Min)	20	40	60
Water consumption (L)	60	120	180
Detergent Consumption (L)	1	2	3
Inlet pipe joint/drain pipe joint in ESP(mm)	73		
Washing system power (W)	400		
Detergent System size	400*500*1450mm / 80 L		
Control box size (mm)	600*500*250		
Detergent tank system weight (kg)	29.5		
Control box weight (kg)	16		
Control box functions	Power on/off, automatic washing, manual washing, automatic blow-drying, automatic power-on/off		
Installation	Floor, suspension, platform installation		
Net Weight (KG)	85	125	150

Extractor Hood With Electrostatic Precipitator



Grease filter

Baffle filter

Exhaust fan

Features

1. Built-in ESP, up to 98% smoke, oil particles control efficiently
2. Save kitchen space, no need to buy extra ESP
3. Built-in quick start-up exhaust fan
4. Grease filter: most of grease will be remove and collected
5. Easy operation, installation, maintenance and cleaning.
6. UVC-ultraviolet light produces ozone and undergoes chemical processes such as Photolysis and Ozonolysis that breaks down grease and odour containing compounds produced during cooking.
7. Remove odour efficiently and avoid complains.
8. Cost effective & eco-friendly: Long life-span, minimum maintenance and energy-saving.



UV-C filter(optiona)

Collector cell

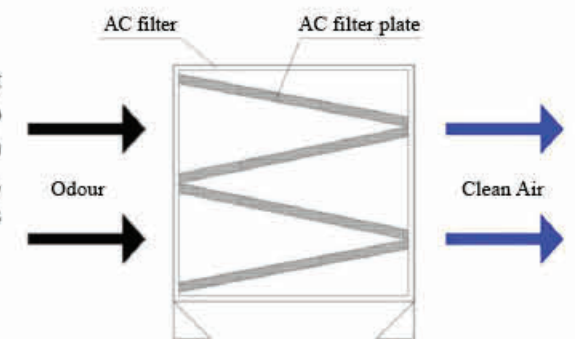
Power supply

Commercial Kitchen Range Hood W/ESP Specification

Model	DGRH-KA-4000	DGRH-KA-6000
Material	Stainless steel	
Air flow (CMH)	4000	6000
Dimensions L*W*H (mm)	1600*1300*965 (+/-5)	2000*1300*965 (+/-5)
Power (W)	1400	1700
Weight (kg)	200	255
Remark	Including LED light source, touch control panel	

Activated Carbon Filter

The main function of Activated Carbon Filter is to remove organic matters and odour. Just one gram of activated carbon has a surface area over 500 m2. Contaminants are also removed more effectively. Activated carbon is widely applied in many areas in modern society, such as air purification, gas purification, metal extraction, water purification, medicine, sewage treatment and respirators and many other applications. Besides, it is Modular in design, easy installation, maintenance and replacement.



NO.	Model	Air Flow (M ³ /H)	Cabinet Size L*W*H (MM)	Flange Size (W*H)	Carbon Weight (Kg)	Nos. of Carbon Tray (PCS)	Wind Resistance (PA)
1	DGRH-CC-35	3000-3500	640*615*690	485*530	45	10	200
2	DGRH-CC-70	6000-7000	640*1150*690	1020*530	85	20	200
3	DGRH-CC-105	9000-10500	640*1690*690	1560*530	125	30	200

Ecology Unit



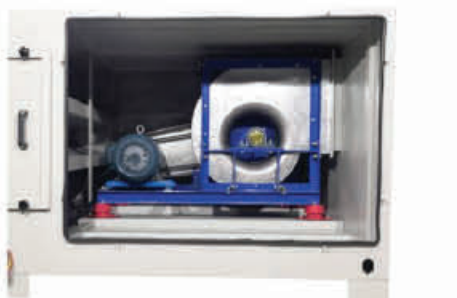
Double pass ESP



UV-C lamps



Activated carbon filter



Double suction backward curved centrifugal fan

Ecology Unit is design to filter commercial kitchen exhaust physically and high efficiently. Primary function is to filter the grease, lint and dust particles and remove the odor from the exhaust air. Ecology units are available in air flow ranging from 3,500 to 30,000 CMH for indoor and outdoor applications.