

Electro-clean

Electrostatic Precipitator

plasma-cleanair
AIR, ODOUR & GREASE CONTROL



High Efficiency Grease and Smoke Removal

IP55-rated construction

Optional oil sump to capture oil & grease

UL & CE tested and certified

EMAQ+ Compliant

- **IP55-rated construction** – Designed for outdoor installation
- **Adjustable airflow direction** – For flexible installation
- **Optional oil sump** – Captures more grease and oil.
- **Energy Efficient** – Low-pressure drop reduces energy costs
- **Modular design** – Seamless integration with our UV and activated carbon modules
- **Compliant with EMAQ+, TR19 and BESA DW/172.**

We understand how important it is to remove grease and smoke from your kitchen exhaust – keeping your ductwork clean, compliant with TR19, and your neighbours happy.

Electro-clean is an electrostatic precipitator specifically designed for reliable and high efficiency capture of grease and smoke particulates in kitchen ventilation applications.

It is IP55-rated for outdoor installation and has an optional oil sump for easier and cleaner maintenance. Its modular design ensures straightforward installation and seamless integration with our UV and activated carbon modules to upgrade your odour control performance.

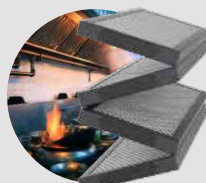
EMAQ+ compliant and UL / CE certified with a low-pressure drop, it helps reduce energy costs and maintains a safe, efficient, and compliant ventilation system.

Modular upgrades...



Electro-clean UV

Upgrade for enhanced odour control performance



Carb-clean

Integrate with Carb-clean for odour and ozone control

plasma-cleanair.com · ask@plasma-cleanair.com | 0800 652 3325
Earl Business Centre, Dowry Street, Oldham, OL8 2PF

 **plasma-cleanair**



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How ESPS Work

Stage 1 - Pre Filter

Dirty kitchen extract air goes through an aluminium mesh filter where large grease particulate in the air is intercepted.

Stage 2 - Ionization

The smaller grease and smoke particles that pass through the primary filter enter the ionization zone where particles as small as 0.01 micron are effectively ionized and carry a positive charge to continue to the collector cell area.

Stage 3 - Collector Cells

Charged grease and smoke particles are then captured via collector cells which are composed of many parallel plates. Grease and oil are collected in the base sump of the ESP and clean air leaves the ESP outlet.

Technical Details

	ESP 2520	ESP 5040	ESP 7560
Max. Recommended Airflow (m ³ /s)	0.7	1.4	2.1
Weight (Kg)	42	66	90
Dimensions (H x W x L mm)	540 x 630 x 550	540 x 1090 x 550	540 x 1550 x 550
Optional oil sump (H mm)	add 120		
Input Voltage (V / Ph / Hz)	220/1/50		
Power (W)	65	130	195
Maximum Temperature (°C)	60		
Static Pressure (Pa)	<100 per pass at recommended airflow		
IP Rating	IP55 (suitable for outdoor installation)		
Construction	Cold rolled sheet		
Finish	Powder coated		
Certification	UKCA / CE / UL		

*4 and 5 cell options available, please enquire

Commissioning and Maintenance

All Plasma Clean Air equipment includes a free Commissioning visit and installation check, ensuring optimal performance from day one.

For added peace of mind, we offer an extended warranty of up to 5 years, supported by ongoing maintenance.

This offer applies to installations within mainland UK.

Installation Requirements

- Ductwork transitions to and from the ESP units to support laminar air flow in accordance with DW/144 (22.5-30 degrees maximum).
- ESP units installed no less than 1 metre away from a bend.
- ESP units to be interlocked with airflow.
- ESP unit to be installed on the negative side of the extract fan.
- According to the type and volume of cooking, single pass, double pass or triple pass ESP filtration can be selected, to ensure effective purification.

Maintenance

Minimum 640mm side access required at the ESP door to allow the door to open fully to safely remove filters and collector cells. Service and cleaning frequency depends on the type and volume of cooking. EMAQ+ Guidance recommends an ESP service clean every 1-3 months for a system employing ESP filtration. Speak with a Plasma Clean Air representative to find out more.

Warranty

1 Year following compliant installation.
Up to 5 years with compliant installation and Plasma Clean Air Service and Maintenance Contract.



**Register Your
Warranty**

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