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ELECTROSTATIC PRECIPITATOR
Kitchen Grease and Smoke Particle Removal



Applications

The Airclean **Electrostatic Precipitator (ESP)** can be used in kitchen extract systems or industrial applications for the efficient removal of grease, smoke, and airbourne oil / coolant mist.

ESP's can be either duct mounted or free hanging for the recirculation of air.

A single pass ESP will achieve a grease and smoke removal efficiency of 95%. Where efficiency is critical (eg. Low level kitchen extract) a double pass ESP is recommended to achieve a 99% efficiency.

Description

The Airclean **Electrostatic Precipitator** is manufactured from 1.5mm Galvanised Steel and finished with an Epoxy Powder Coat. The two metal washable filters within the ESP are manufactured with an aluminium frame and an aluminium knitted mesh filter pad.

The Ioniser and Collector in the unit are combined in a single aluminium cell, which can be removed to be cleaned and replaced as required by the operator.

Technical

Power: 220V, 50Hz, Single Phase
Controls: Auto Cut Off Switch When Door is Open. Fault Indicator and Operation Lights.
Maximum recommended face velocity: 2.5m/s
Maximum operating temperature: 60°C

For high grease / oil applications drainage is required. A minimum of 150mm below the unit should be allowed for a suitable drainage system to be installed.

To treat airflows larger than those stated multiple units are used together in parallel. An ESP joining kit is required to connect drains and flanges for ducting.

Units are to be mounted horizontally only, with access one side only. ESP's can be handed with airflow left to right, or right to left.

ELECTROSTATIC PRECIPITATORS

Dimensions			Style	Weight	Flow Rate	P.D.	Part Numbers
H	W	D			m^3/s	Pa	
534	680	635	1Hx1W	55kg	Up to 0.69	80	1912115
534	1230	635	1Hx2W	80kg	0.69 – 1.36	80	1912116
534	1664	635	1Hx3W	120kg	1.36 – 2.08	80	1912117
Spare ESP Cell 1Hx2W							1912118
Spare ESP Cell 1Hx3W							1912119
ESP Joining Kit for one join (Incl. Bolts, Sealant, Blanking Strips)							1912120
Cleaning Tank for ESP Cell (Non Heated)							1912113
Series 500 Cleaning Agent							1380500

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