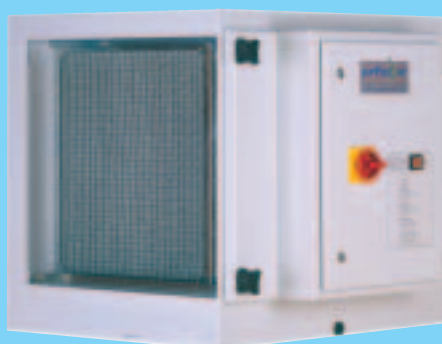


# ELECTROSTATIC PRECIPITATOR

Collector of Grease and Smoke Fumes



ESP 3000 E



ESP 1500 E



ESP 6000 E

**purified<sup>®</sup>air**  
providing a better environment

# The Principle of Electrostatic Precipitators

The ESP units are used to clean the **airstream** of grease and hydrocarbons (smoke) in kitchen exhaust systems. They are highly efficient and can remove particulate down to sub-micron (0.01 $\mu$ m) size. The filter efficiency of 98% is attained during a single pass through the ESP, based on the charging of particles by an ionisation section **2** which are then trapped on the earth plates in the collector cell **3**. Larger particulate in the airstream would be removed by the pre-filter **1** and lastly through an afterfilter **4** to prevent any re-entrainment and provide good air distribution.

## Construction

ESP air cleaners are precision engineered to current industrial standards.

The case is of galvanised construction, spot welded and fitted with heavy duty hinges and bolt-on door equipped with compression locks (adjustable).

Industrial neoprene seals fitted all round.

## Efficiency

Particulate Micron	Air Vol. 100%	Air Vol. 80%
0.01	97%	98%
0.1	97%	97%
10.0	98%	98%

## Maintenance

ESP air cleaners require only routine maintenance as all filter components are cleanable by means of steam, detergent, or pressure jet.\*

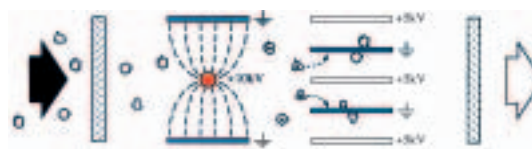
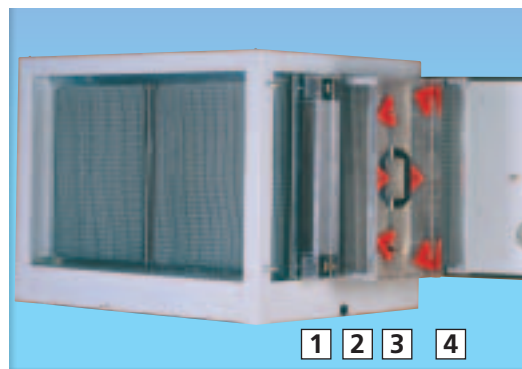
\*excluding media and carbon filters.

## Controls

Separate enclosure houses the HT supply, motor controls, and operating lights, with individual indication of mains and filter operation.

## Filter Technology

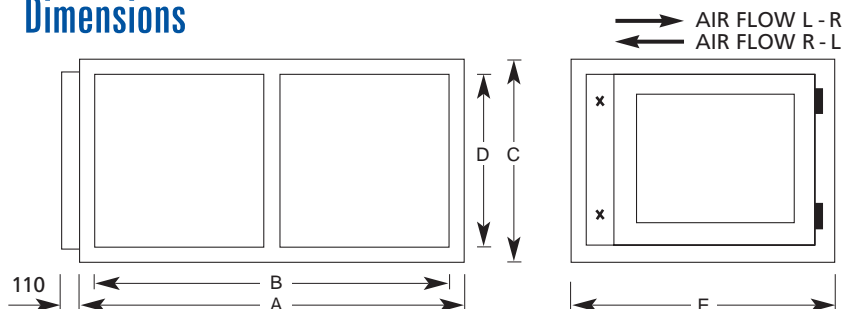
- 1 Pre-filter**  
Eurovent Class 2
- 2 Ionisation selection**
- 3 Collector section**  
Eurovent class 9  
Filter surface 28.4m<sup>2</sup>
- 4 Final filter**  
Eurovent Class 2



## Standards

The ESP Units comply with current IEE, CE and other European standards, including the Health and Safety at Work Act. Rated to IP 53.

## Dimensions



	ESP 1500 E	ESP 3000 E	ESP 6000 E
A - Width	450mm	900mm	900mm
B - Width	350mm	700mm	700mm
C - Height	630mm	630mm	1260mm
D - Height	490mm	490mm	980mm
E - Depth	660mm	660mm	660mm
AIR VOLUME MAX	2500m <sup>3</sup> /h 1500cfm	5000m <sup>3</sup> /h 3000cfm	10,000m <sup>3</sup> /h 6000cfm
ELECTRICAL SUPPLY	220/240V 50Hz 1ph	220/240V 50Hz 1ph	220/240V 50Hz 1ph
POWER CONSUMPTION	30W	50W	50W
WEIGHT	60kg	100kg	200kg
MIN/MAX WORKING TEMP.	4/56°C	4/56°C	4/56°C
MAX RELATIVE HUMIDITY	75%	75%	75%