

# ELECTROSTATIC AIR PURIFIER FEM SYSTEM



## DESCRIPTION

This module was created specifically to capture polluting particles such as oils and fats present in the fumes and vapors produced in industrial kitchens.

The module is produced in galvanized iron and painted with epoxy powders color RAL 7035. On the surface of the door and on the lower surface, a panel of spongy material allows to seal the module during the passage of air between the filters and the structure. The power supply of the filter module takes place through a power supply cable with the type of Schuko plug and socket EN 60320-1 / PA80.

At the front there is the main switch with an LED that indicates the two-color operating status: green = ok; red = fault

# TECHNICAL SPECIFICATIONS



## FILTER STAGE

Inside the module are allocated various air filtration systems

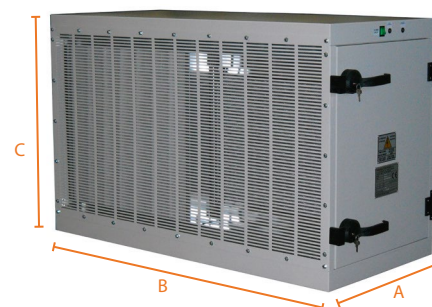
1<sup>st</sup> stage is composed from n° 2 filter fiber nonwoven EU3 (EN779) dim. 592x592x95mm or with metal mesh filter for oil and fats PF METAL COMPACT dim. 592x592x95 mm.

2<sup>nd</sup> stage is composed from n° 2 electrostatic filters type FEL 600, classified high-efficiency class A-PE Filters (UNI11254:2007) or E10, old H10 class (EN1822:2009) if it works at 50% of maximal air flow. When the module works at maximal air flow, the class of filtration is F8 (EN779:2012). Moreover the electrostatic filters subjected to the tests of the UL867 standard have passed the tests and achieved the UL certification, a US standard that relates to the safety of equipment and specifically deals with the Safety of Electrostatic Air Filters.

3<sup>rd</sup> stage (optional): is composed from activated carbon filter 22mm or 50mm thick or ionisation modules type FI600.

| COD.     | Airflow Capacity<br>min/max<br>m³/h | Accumulation<br>Capacity<br>g | Electrical<br>Power<br>W | Dimensions<br>AxBxC<br>mm | Weight<br>Kg |
|----------|-------------------------------------|-------------------------------|--------------------------|---------------------------|--------------|
| FEM 600  | 1300 ÷ 3400                         | 470                           | 16                       | 570 x 602 x 780 h         | 60           |
| FEM 1200 | 2600 ÷ 6800                         | 940                           | 32                       | 570 x 1205 x 780 h        | 110          |

|   | speed 0,5<br>m/s | speed 1<br>m/s | speed 2<br>m/s | speed 3<br>m/s | speed 4<br>m/s |
|---|------------------|----------------|----------------|----------------|----------------|
| Efficiency on particles > 0,5<br>µm [%]         | 99,6             | 99,5           | 98,4           | 97,3           | 95             |
| Pressure drop [Pa]                              | 10               | 16             | 25             | 34             | 68             |
| Filtration grade compared<br>mechanical filters | E11              | E10            | E10            | F9             | F8             |



## CERTIFICATIONS

**ILH BERLIN**  
INSTITUT FÜR LUFTHYGIENE

**BSRIA**

**CETIAT**  
ensemble, innover et valider

**Consiglio Nazionale  
delle Ricerche**



**POLITECNICO  
DI TORINO**



Instituto Argentino  
de Normalización  
y Certificación

