

ELECTROSTATIC AIR CLEANER FEM SYSTEM



DESCRIPTION

FEM module was created specifically to capture welding smoke fumes and the particles such as oils mists present in the fumes and vapours of industrial production.

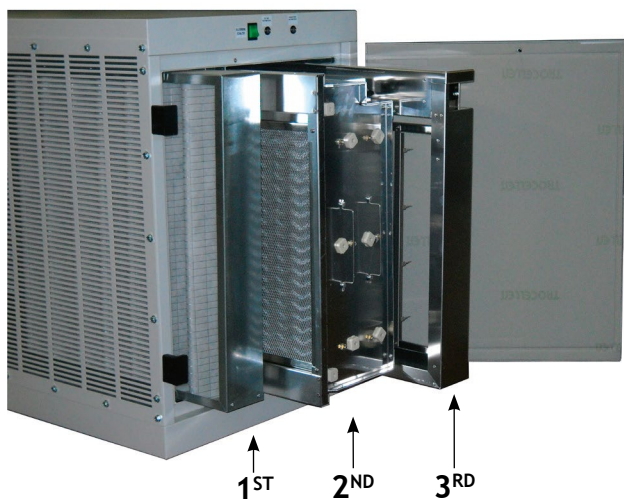
The unit is produced in galvanized iron & painted with epoxy powder color RAL7035. A panel of spongy material on the surface of door and at the bottom surface of module provided to make seals to the air passage between the filters and the structure.

The power supply module is made through an electric power cable with plug type SCHUKO and socket EN 60320-1 / PA80.

In front of the module there is the MAIN SWITCH and the bi-color LED indicating the operating status: Green = OK; Red = fault.

The filtratio unit can be provided with electronic fan integrated.

TECHNICAL SPECIFICATIONS



FILTER STAGES

The unit are provided with different filters:

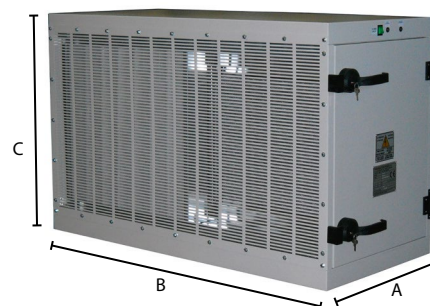
1st stage is composed from filter fiber nonwoven EU3 (EN779) dim. 592x592x95mm or with metal mesh filter for oil and fats PF METAL COMPACT dim. 592x592x95mm

2nd stage is composed from 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 unit works at maximal air flow, the class of filtration is F8 (EN779:2012)

3rd stage (optional): is composed from activated carbon filter 22mm or 50mm thickness or ionisation modules type FI600.

COD.	Airflow Capacity min/max m³/h	Accumulation Capacity g	Electrical Power W	Dimensions AxBxC mm	Weight 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 m/s	speed 1 m/s	speed 2 m/s	speed 3 m/s	speed 4 m/s
Efficiency on particles > 0,5 µm [%]	99,6	99,5	98,4	97,3	95
Pressure drop [Pa]	10	16	25	34	68
Filtration grade compared mechanical filters	E11	E10	E10	F9	F8



CERTIFICATIONS

ILH BERLIN
INSTITUT FÜR LUFTHYGIENE

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