

Systems for air depuration and treatment



ELECTROSTATIC LINE

EF



Presentation



EF filter belongs to Electrostatic Line and it is composed by modular units for the electrostatic air filtration from pollution like oil fogs, dusts, welding fumes and industrial smokes in general.

A very important feature of EF filters is their modularity: the smallest module has a filtration capacity of about 2.000 m³/h and, combining opportunely the modules, we can obtain multiple air capacities, up to 48.000 m³/h.

The modularity of EF filters also allows to be joined together with different filtering elements such as pocket filters, drops separators, activated carbon filters (when it is necessary collecting volatile organic substances). In a very compact version, the EF can be equipped with a fan unit, by adding a back module to the electrostatic.



FILTER EF 20+CV [VERTICAL]

P R E S E N T A T I O N

In this way we obtain a reduction of the noise of the suction unit, a greater compactness of the system (reduction of the dimensions) and an appreciable aesthetics. It is also remarkable the very high filtration efficiency, if it is correctly applied.

Product

EF Electrostatic Filters are constructed with a strong structure of bent sheet metal, suitable for the installation on the floor. The units are equipped with an inlet flange for the connection with the pipeline of the system.

The filter is also equipped with an electric board for the control of the electrostatic part and, for the model with the fan, also with the start/stop controls for the suction unit.

There are two types of EF electrostatic filter for each configuration; one for the dry smokes and the other for the oil fogs.

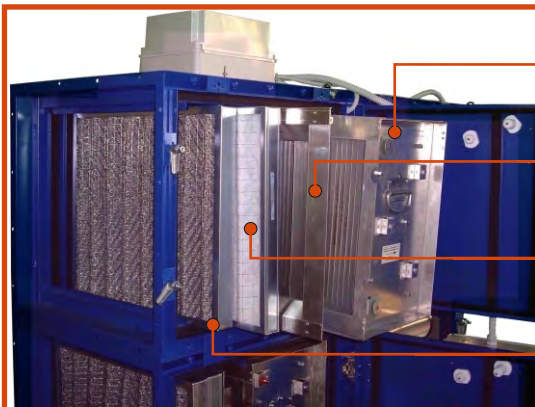
In the second version, there are a system for the unloading of the condensate collected by the electrostatic cells and a tank for the collection of the filtered oil. EF filters can be equipped with an activated carbon module "EF CA" or a fan module "EF M", or both "EF CAM".



EF 20+CV

Features

Electrostatic filters ensure the purification of the air from polluting elements like fumes, dusts, oil mists, welding and processing fumes. Those pollutants can have granulometry with values that vary from 10 to 0,01 micron. The flow resistance of the electrostatic filter can vary from 40 Pascal (filter clean) to 80 Pascal (filter dirty). The concentration of the pollutant can be up to 50 mg/m. the temperature of the fluid must not exceed 60°C and the relative humidity can vary from 20% to 99%.



- Collecting Cell
- Ionising Cell
- Acrylic Pre-Filter
- Metallic Pre-Filter

Functioning

The air, that contains the polluting particles, is attracted on the filtration system by the suction fan; passing through the ionising section, the particles are charged with unipolar electricity (thanks to the tungsten wires fed with 10 kV direct current suspended between electrodes connected to the ground). In the following collecting section (composed by pure

aluminium plates fed with 5kV current, alternated with plates connected to the ground) the particles are repelled by the plates fed to the plates connected to the ground. Those last plates have the function to catch the polluting particles present in the fluid. The polluting particles kept in the filter must be periodically removed with simple maintenance operations.

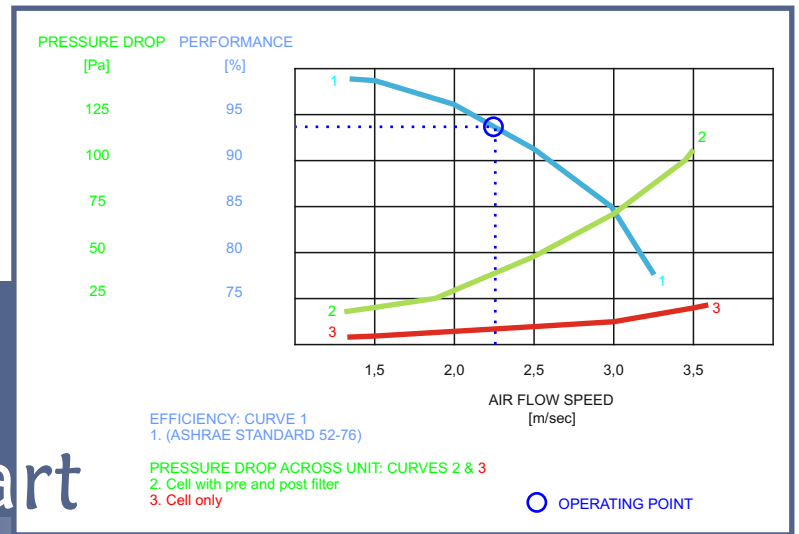


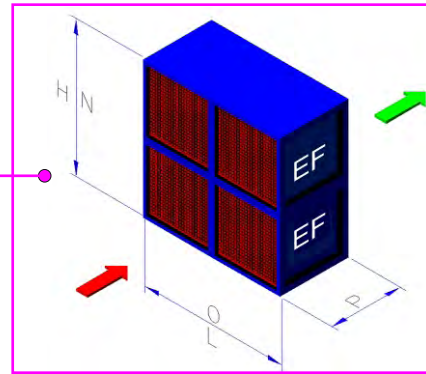
Chart efficiency

Dimensions and Technical Data

Drawings, Models

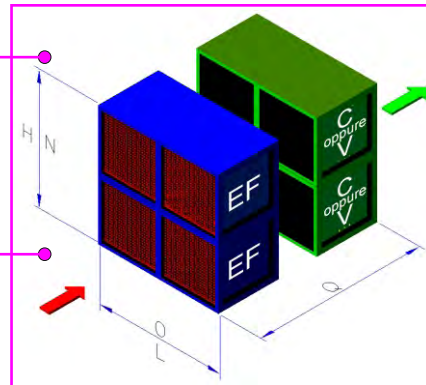
EF

Normal
Electrostatic Filter.
Oil or Smokes version.
Activated carbon excluded.
Fan excluded.



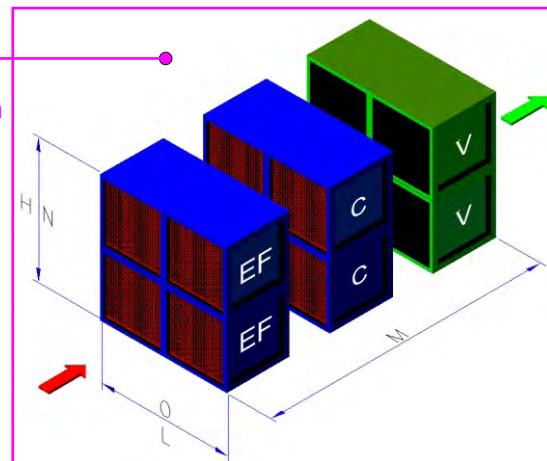
EF+C

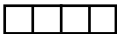
Electrostatic Filter
with Activated Carbon.
Fan Excluded.




EF+V

Electrostatic Filter
with Fan.
Activated Carbon Excluded



A 

B 

C 

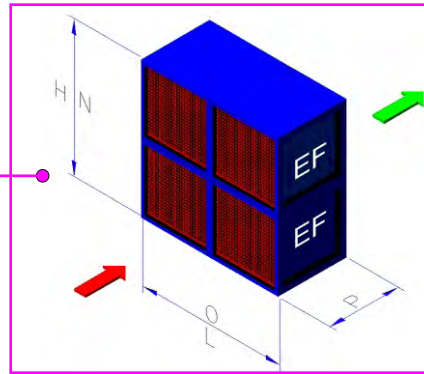
MODEL	O x N	L mm	H mm	P mm	Q mm	M mm	CAPACITY m³/h	FILTER LOSS Pascal	USEFUL PRESSURE Pascal	CARBONE CARTRIGE N.	CARBON QUANTITY kg	MOTORE POWER kw	ACUSTIC PRESSURE db(A)	TOTAL WEIGHT kg
EF 10	1 X 1	600	710	709			2.000	250						85
EF 10+C	1 X 1	600	710		1.418		2.000	400		9	27			170
EF 10+V	1 X 1	600	710		1.418		2.000		930			1,1	71	115
EF 10+CV	1 X 1	600	710				2.127	2.000	780	9	27	1,1	71	200
EF 20A	2 X 1	1.130	710	709			4.000	250						170
EF 20A+C	2 X 1	1.130	710		1.418		4.000	400		18	54			340
EF 20A+V	2 X 1	1.130	710		1.418		4.000		780			2,2	70	200
EF 20A+CV	2 X 1	1.130	710				2.127	4.000	630	18	54	2,2	70	370
EF 20B	1 X 2	600	1.320	709			4.000	250						170
EF 20B+C	1 X 2	600	1.320		1.418		4.000	400		18	54			340
EF 20B+V	1 X 2	600	1.320		1.418		4.000		780			2,2	70	200
EF 20B+CV	1 X 2	600	1.320				2.127	4.000	630	18	54	2,2	70	370
EF 30A	3 X 1	1.660	710	709			6.000	250						255
EF 30A+C	3 X 1	1.660	710		1.418		6.000	400		27	81			510
EF 30A+V	3 X 1	1.660	710		1.418		6.000		1.090			4	71	290
EF 30A+CV	3 X 1	1.660	710				2.127	6.000	940	27	81	4	71	545
EF 30B	1 X 3	600	1.930	709			6.000	250						255
EF 30B+C	1 X 3	600	1.930		1.418		6.000	400		27	81			510
EF 30B+V	1 X 3	600	1.930		1.418		6.000		1.090			4	71	290
EF 30B+CV	1 X 3	600	1.930				2.127	6.000	940	27	81	4	71	545
EF 40A	4 X 1	2.260	710	709			8.000	250						340
EF 40A+C	4 X 1	2.260	710		1.418		8.000	400		36	108			680
EF 40A+V	4 X 1	2.260	710		1.418		8.000		1.080			5,5	72	380
EF 40A+CV	4 X 1	2.260	710				2.127	8.000	930	36	108	5,5	72	720
EF 40B	1 X 4	600	2.540	709			8.000	250						340
EF 40B+C	1 X 4	600	2.540		1.418		8.000	400		36	108			680
EF 40B+V	1 X 4	600	2.540		1.418		8.000		1.080			5,5	72	380
EF 40B+CV	1 X 4	600	2.540				2.127	8.000	930	36	108	5,5	72	720
EF 40C	2 X 2	1.130	1.320	709			8.000	250						340
EF 40C+C	2 X 2	1.130	1.320		1.418		8.000	400		36	108			680
EF 40C+V	2 X 2	1.130	1.320		1.418		8.000		1.080			5,5	72	380
EF 40C+CV	2 X 2	1.130	1.320				2.127	8.000	930	36	108	5,5	72	720
EF 60B	2 X 3	1.130	1.930	709			12.000	250						510
EF 60B+C	2 X 3	1.130	1.930		1.418		12.000	400		54	162			1.020
EF 60B+V	2 X 3	1.130	1.930		1.418		12.000		1.330			7,5	73	555
EF 60B+CV	2 X 3	1.130	1.930				2.127	12.000	1.180	54	162	7,5	73	1.065
EF 60A	3 X 2	1.660	1.320	709			12.000	250						510
EF 60A+C	3 X 2	1.660	1.320		1.418		12.000	400		54	162			1.020
EF 60A+V	3 X 2	1.660	1.320		1.418		12.000		1.330			7,5	73	555
EF 60A+CV	3 X 2	1.660	1.320				2.127	12.000	1.180	54	162	7,5	73	1.065
EF 80B	2 X 4	1.130	2.540	709			16.000	250						680
EF 80B+C	2 X 4	1.130	2.540		1.418		16.000	400		72	216			1.360
EF 80B+V	2 X 4	1.130	2.540		1.418		16.000		1.320			9	75	730
EF 80B+CV	2 X 4	1.130	2.540				2.127	16.000	1.170	72	216	9	75	1.410

Dimensions and Technical Data

Drawings, Models

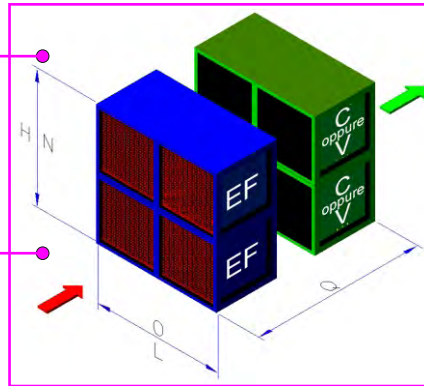
EF

Normal
Electrostatic Filter.
Oil or Smokes version.
Activated carbon excluded.
Fan excluded.



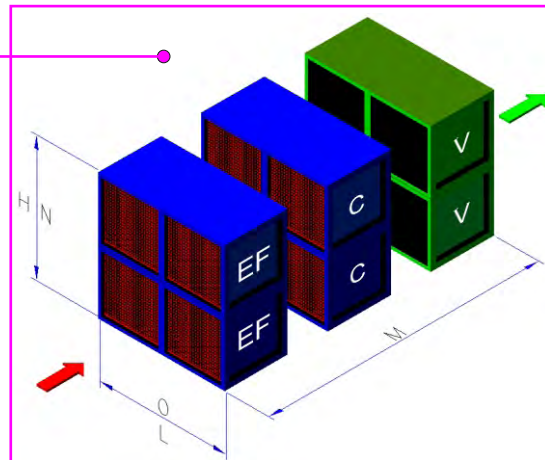
EF+C

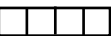
Electrostatic Filter
with Activated Carbon.
Fan Excluded.




EF+V

Electrostatic Filter
with Fan.
Activated Carbon Excluded



A 

B 

C 

MODEL	O x N	L	H	P	Q	M	CAPACITY m ³ /h	FILTER LOSS Pascal	USEFUL PRESSURE Pascal	CARBONE CARTRIGE N.	CARBON QUANTITY kg	MOTORE POWER kw	ACUSTIC PRESSURE db(A)	TOTAL WEIGHT kg
EF 80A	4 X 2	2.260	1.320	709			16.000	250						680
EF 80A+C	4 X 2	2.260	1.320		1.418		16.000	400		72	216			1.360
EF 80A+V	4 X 2	2.260	1.320		1.418		16.000		1.320			9	75	730
EF 80A+CV	4 X 2	2.260	1.320			2.127	16.000		1.170	72	216	9	75	1.410
EF 90C	3 X 3	1.660	1.930	709			18.000	250						765
EF 90C+C	3 X 3	1.660	1.930		1.418		18.000	400		81	243			1.530
EF 90C+V	3 X 3	1.660	1.930		1.418		18.000		1.320			11	76	820
EF 90C+CV	3 X 3	1.660	1.930			2.127	18.000		1.170	81	243	11	76	1.585
EF 100B	2 X 5	1.130	3.150	709			20.000	250						850
EF 100B+C	2 X 5	1.130	3.150		1.418		20.000	400		90	270			1.700
EF 100B+V	2 X 5	1.130	3.150		1.418		20.000		1.280			15	76	905
EF 100B+CV	2 X 5	1.130	3.150			2.127	20.000		1.130	90	270	15	76	1.755
EF 100A	5 X 2	2.860	1.320	709			20.000	250						850
EF 100A+C	5 X 2	2.860	1.320		1.418		20.000	400		90	270			1.700
EF 100A+V	5 X 2	2.860	1.320		1.418		20.000		1.280			15	76	905
EF 100A+CV	5 X 2	2.860	1.320			2.127	20.000		1.130	90	270	15	76	1.755
EF 120A	4 X 3	2.260	1.930	709			24.000	250						1.020
EF 120A+C	4 X 3	2.260	1.930		1.418		24.000	400		108	324			2.040
EF 120A+V	4 X 3	2.260	1.930		1.418		24.000		1.660			18,5	78	1.080
EF 120A+CV	4 X 3	2.260	1.930			2.127	24.000		1.510	108	324	18,5	78	2.100
EF 120B	3 X 4	1.660	2.540	709			24.000	250						1.020
EF 120B+C	3 X 4	1.660	2.540		1.418		24.000	400		108	324			2.040
EF 120B+V	3 X 4	1.660	2.540		1.418		24.000		1.660			18,5	78	1.080
EF 120B+CV	3 X 4	1.660	2.540			2.127	24.000		1.510	108	324	18,5	78	2.100
EF 140B	2 X 7	1.130	4.370	709			28.000	250						1.190
EF 140B+C	2 X 7	1.130	4.370		1.418		28.000	400		126	378			2.380
EF 150B	3 X 5	1.660	3.150	709			30.000	250						1.275
EF 150B+C	3 X 5	1.660	3.150		1.418		30.000	400		135	405			2.550
EF 160C	4 X 4	2.260	2.540	709			32.000	250						1.360
EF 160C+C	4 X 4	2.260	2.540		1.418		32.000	400		144	432			2.720
EF 180B	3 X 6	1.660	3.760	709			36.000	250						1.530
EF 180B+C	3 X 6	1.660	3.760		1.418		36.000	400		162	486			3.060
EF 200B	4 X 5	2.260	3.150	709			40.000	250						1.700
EF 200B+C	4 X 5	2.260	3.150		1.418		40.000	400		180	540			3.400
EF 240B	4 X 6	2.260	3.760	709			48.000	250						2.040
EF 240B+C	4 X 6	2.260	3.760		1.418		48.000	400		216	648			4.080
EF 240B	3 X 8	1.660	4.980	709			48.000	250						2.040
EF 240B+C	3 X 8	1.660	4.980		1.418		48.000	400		216	648			4.080

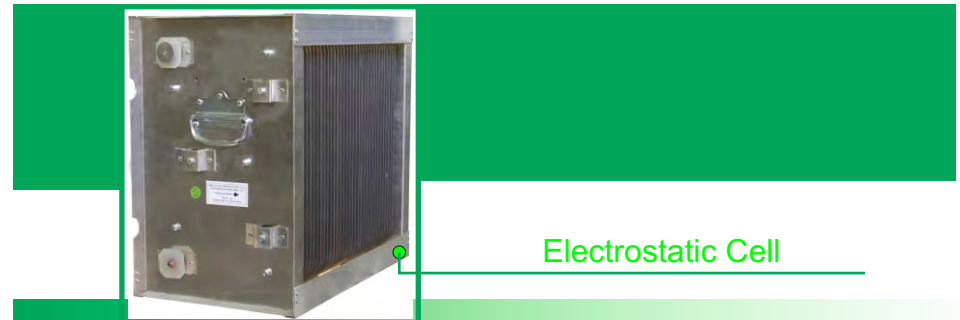
Coral Monitoring System



Coral Monitoring System ("A.M.S.") is an optional electronic device of control and check for the "EF". The "A.M.S." in the basic version is composed by a device with a display, that controls and shows all the principal working parameters. In the more complete versions, the "A.M.S." is composed by a touch screen check and control panel. This panel can be assembled in local

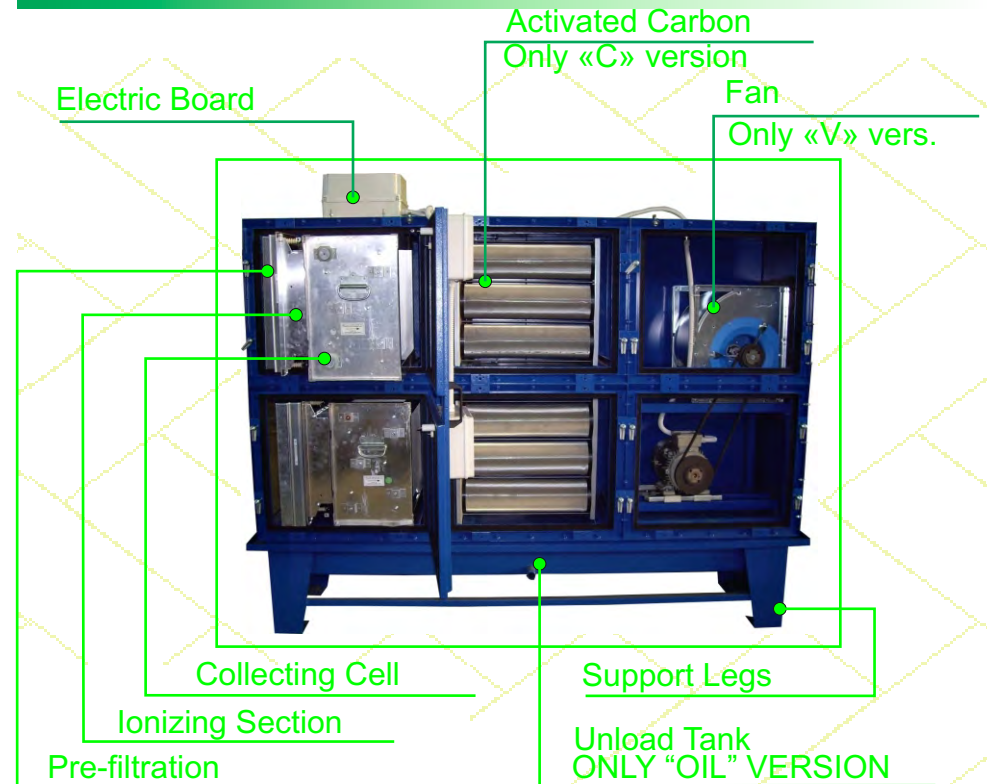
or in remote. The data transmission can be made by ethernet or wireless. Thanks to a microprocessor, the "A.M.S." disposes of smart function as the determination of the efficiency state of the collecting cell, signaling the cadence of the maintenance. It also allows to check all the functions of the device with the graphic display of the alarm events, recording the list.

VOLTAGE	CONTROL
FILTERS	AUTONOMY
H.V. BOARD	TEMPERATURE
REPORTING	ANOMALIES



Electrostatic Cell

Details



The functionality, the simplicity of use and the efficiency are basic features for CORAL. The care of the detail and the continuous technical updating, addressed to the research of the perfecting, are the fulcrum of CORAL method.

Examples & Installations



EF 20+CV



EF 20+V



EF 30+V



EF 10+V

EF 30

EF 10+V



EF 20+V TANDEM



Coral Quality System



Coral has obtained the certification of conformity of its quality system to the ISO 9001:2008 norm. It is a guarantee that the products and the services offered by Coral are in accordance to total quality standards.



Quality System Certified
ISO 9001:2008



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