



CleanMist® and FEF

Centrifugal filters for oil mist
and electrostatic filters



HFI FILTRATION S.r.l. was created from the spin-off, in 2013, of Hascon Engineering that has been operating for 30 years in the field of air dedusting and filtration in multiple industries safeguarding the environment and its sustainability applying the Quality and Environmental Certification ISO 9001 and ISO 14001 standards.

The experience gained over the years, and technical staff competence, allow HFI Filtration to offer highly qualified advice and assistance able to identify the best possible solution in filtration and dust extraction fields.

HFI Filtration develops and markets air filtering systems for small-medium applications. The company focuses on air quality in work environments.

Years of experience in machining, allowed us to develop the **CleanMist®** centrifugal filters in order to solve different oil mist filtration issues.



CleanMist®

The **CleanMist®** range can meet all your oil mists filtering requirements thanks to the following advantages:

- **Wide Field Of Application**

- **Efficiency**

Up to 99%

- **Low noise**

68÷75 dBA depending on the model

- **Maintenance**

Limited, thanks to the self-cleaning drum

The filter is accessible from various sides to facilitate cleaning

- **Simple installation**

Wide range of support frames

- **Recycling of processed oil**

Pressurized oil drainage

- **Prompt delivery**

- **Customized solutions**

Three filtering stages

60 Hz versions

Customization

Special colors on request

- **Technical advice**

Support for the identification of the most appropriate solution, in terms both of technology and cost-effectiveness

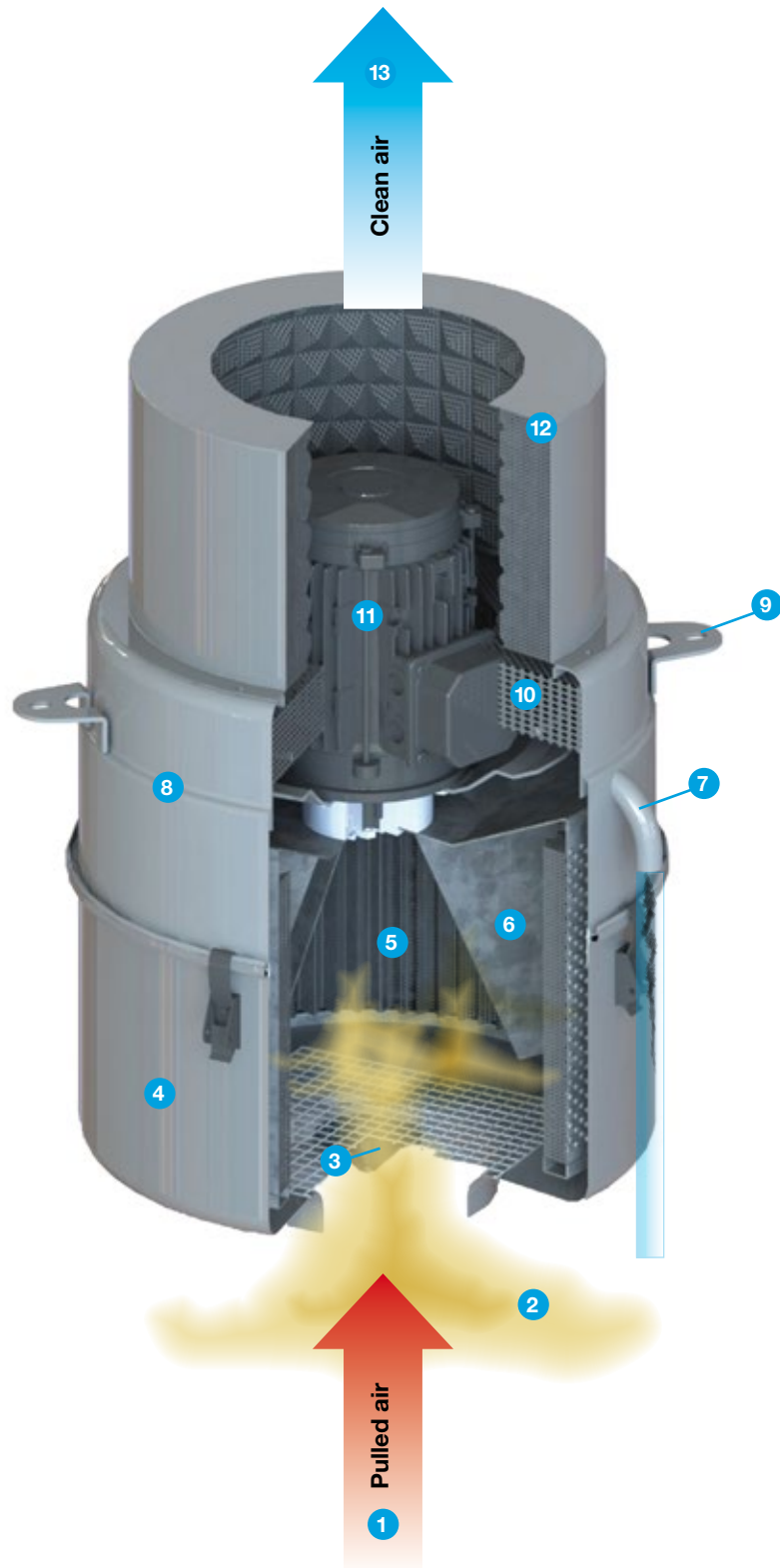
- **Service**

Turnkey delivery, if required

Planned maintenance by our skilled technicians

Operation

- 1 Inlet
- 2 Oil mist
- 3 Flow diffuser
- 4 Lower body
- 5 Filtering panels
- 6 Venturi perforated metal sheet drum (Patented)
- 7 Drainage tube
- 8 Upper body
- 9 Fastening brackets
- 10 Inner silencer
- 11 Motor
- 12 Silencer
- 13 Clean air output



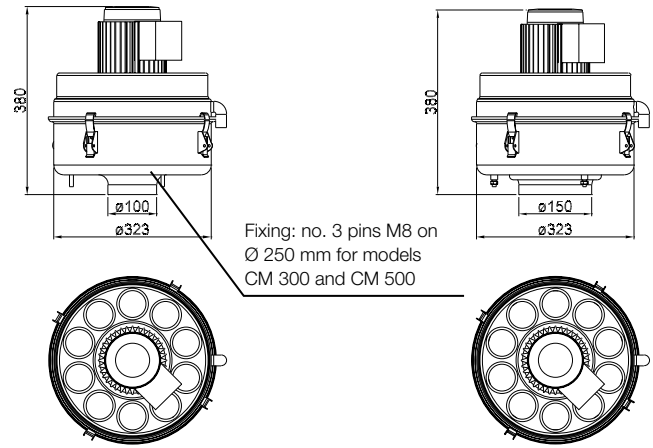
The air polluted by oil mist or coolant is channelled inside the centrifugal filter crossing the inlet providing a grid so as to prevent the suction of solid material. A conic diffuser guarantees the uniform distribution inside the drum of the mist and vapour that are centrifuged at high speed and then pushed towards the filtering panels. While crossing the panels, the particles undergo a coalescence effect turning into droplets and then discharged through a drainpipe. Cleaned air is thus ducted towards the upper part of the filter to be possibly treated with a final cartridge or an electrostatic filter FEF.

The CleanMist® range

CM 300 e CM 500



CODE	Airflow m³/h	Power kW 230/400 V	Noise level at 1,5 mt dBA	Weight Kg
CM300	300	0,55	65	15
CM500	500	0.55	65	15



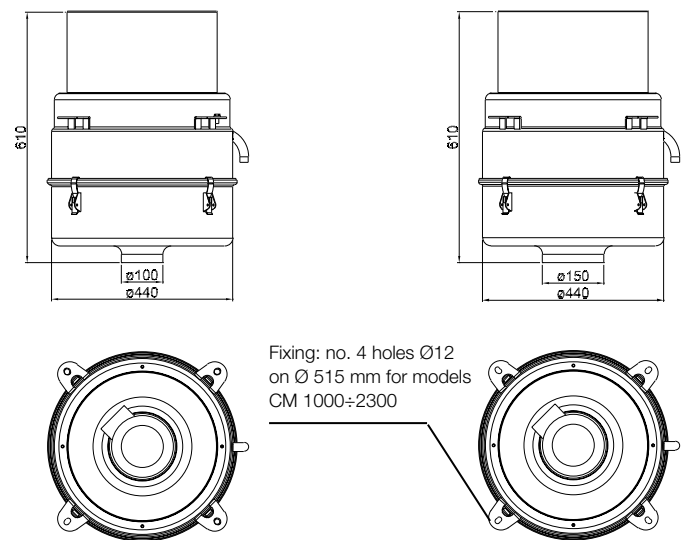
CM 300

CM 500

CM 1000 e CM 1400



CODICE	Airflow m³/h	Power kW 230/400 V	Noise level at 1,5 mt dBA	Weight Kg
CM1000	1000	1,5	74	33
CM1400	1400	1,5	74	33



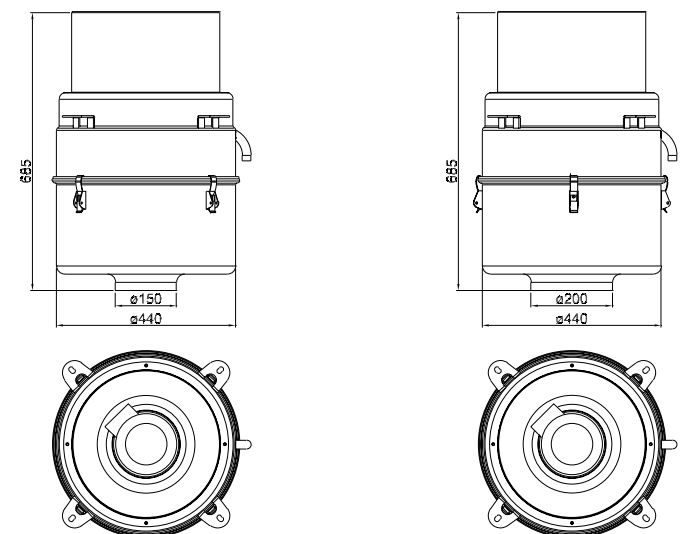
CM 1000

CM 1400

CM 1800 e CM 2300



CODICE	Airflow m³/h	Power kW 230/400 V	Noise level at 1,5 mt dBA	Weight Kg
CM1800	1800	2,2	76	38
CM2300	2300	2,2	76	38

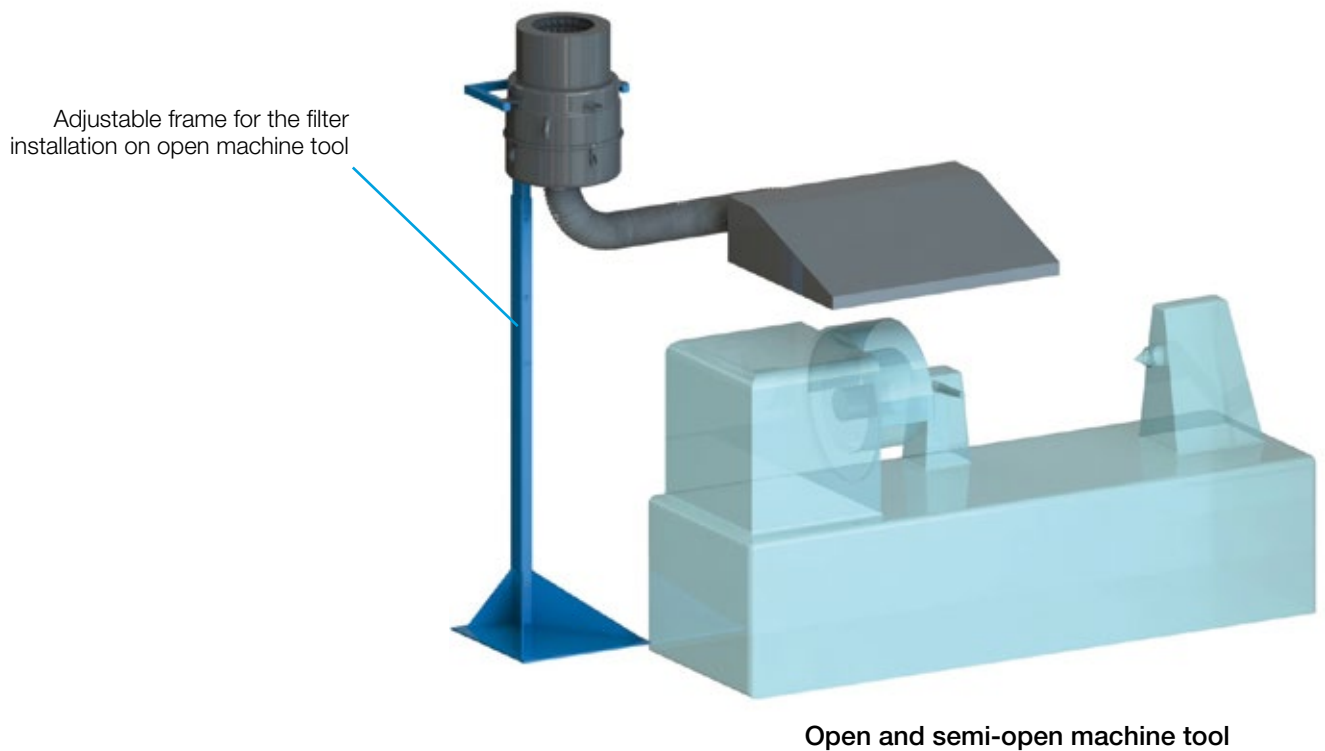
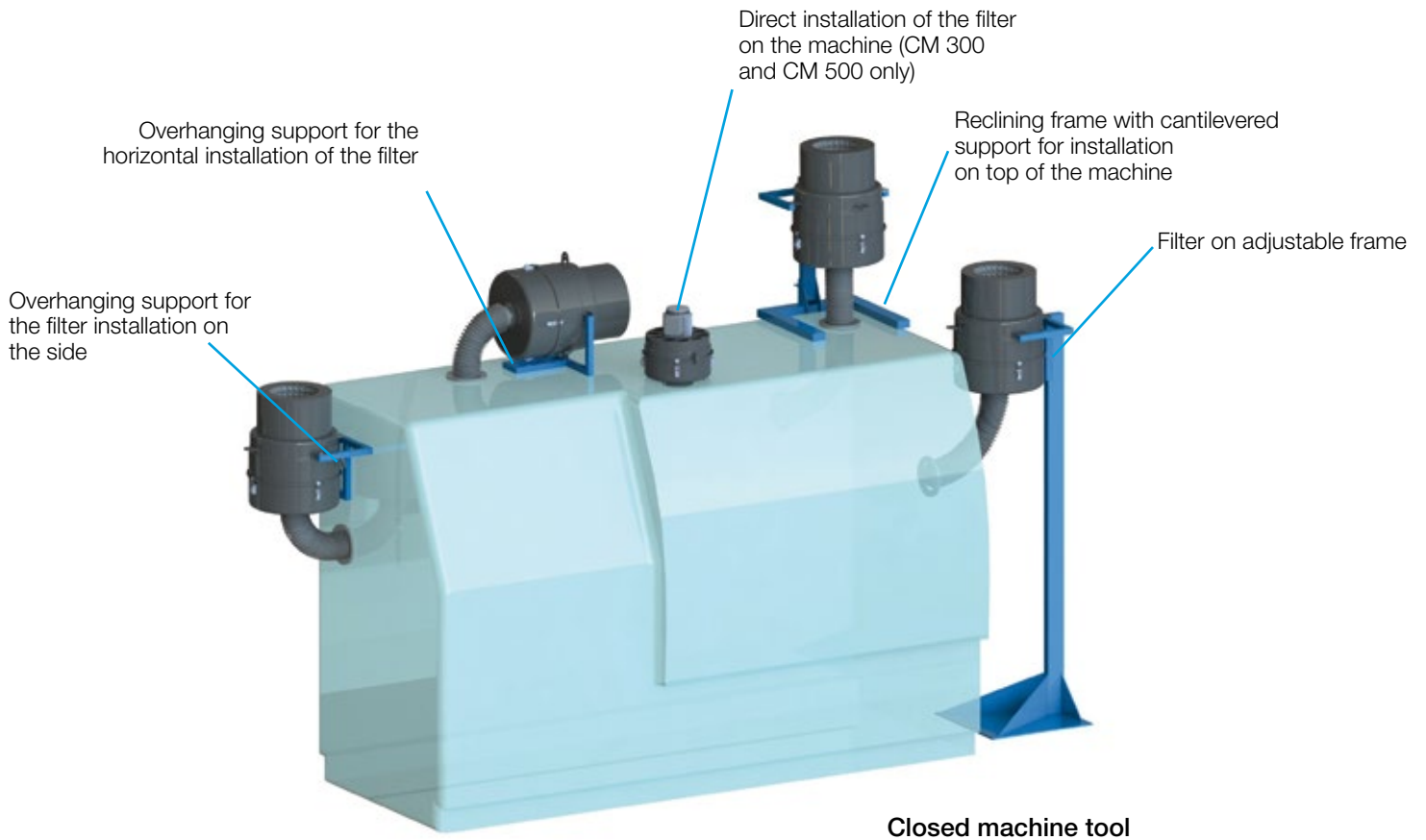


CM 1800

CM 2300

Support Systems

CleanMist® design provides for specific support systems to ease the installation of the filter on any kind of machine.



Light processing

Light processing without smoke or solid particles does not require further filtration by means of final cartridges or electrostatic filters.

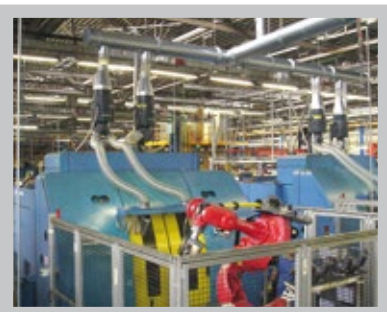


CM 300 ÷ 500



Silencer

CM 1000 ÷ 2300

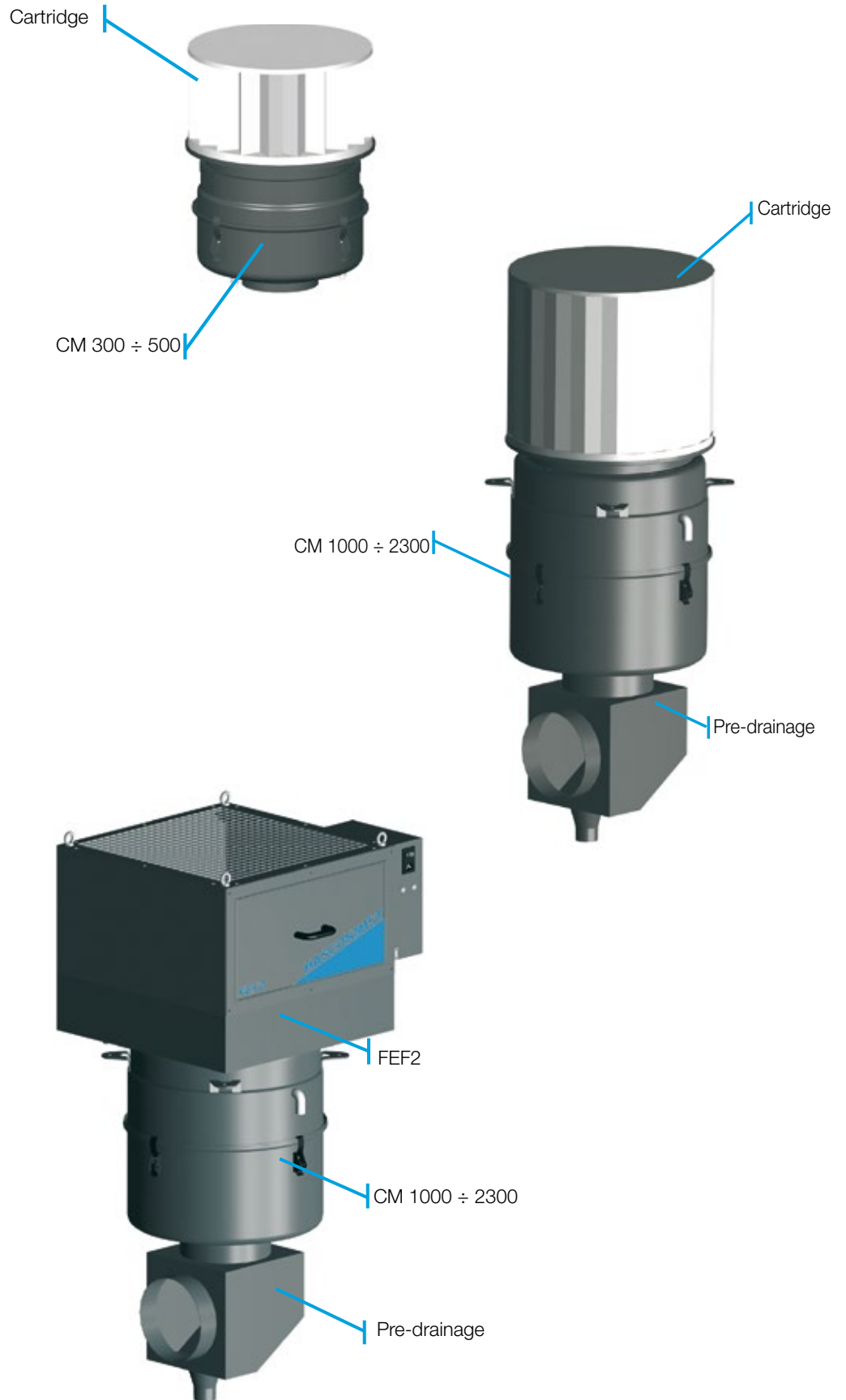


Medium-heavy processing

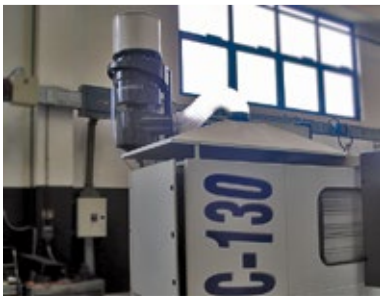


Medium-heavy processing with smoke and solid particles could require the installation of a final cartridge or an electrostatic filter FEF and/or other accessories so as to guarantee a proper functioning.

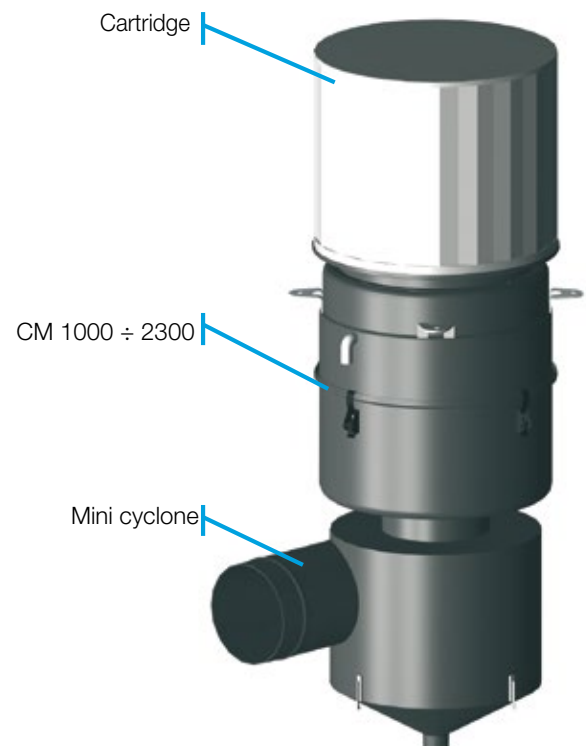
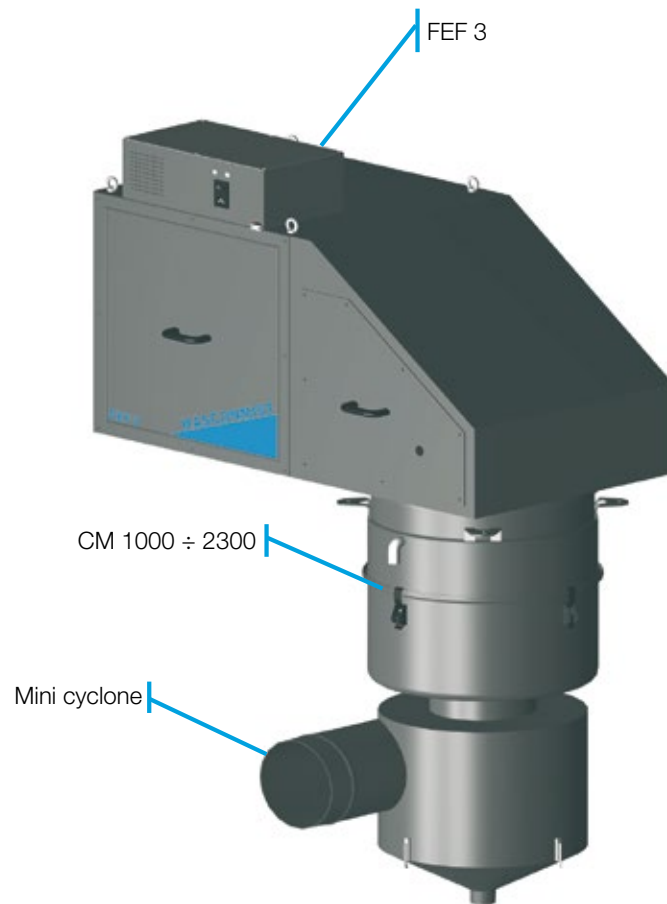
Our technicians are available to design the proper dimensioning of the centrifugal filter.



Very heavy processing



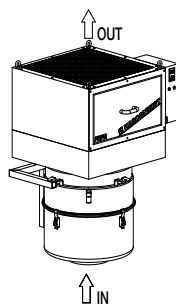
Very heavy processing or continuous production cycles require necessarily the installation of final cartridges or electrostatic filters FEF together with specific accessories to further improve the centrifugal filter performances.



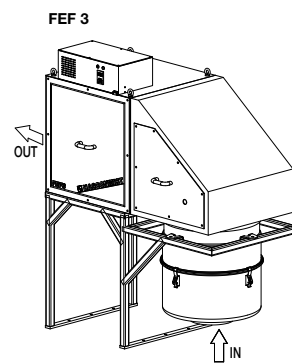
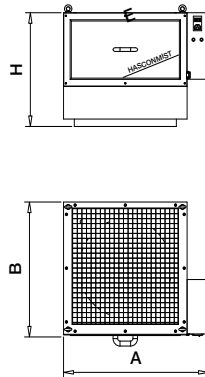


Final Electrostatic Filter

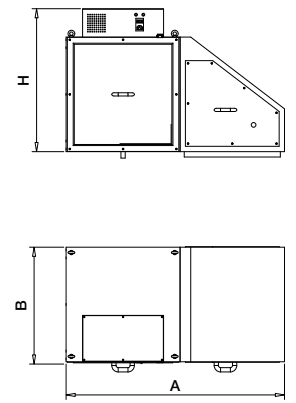
The FEF (Final Electrostatic Filter) operates according to the principle of ionization of polluting particles. The air which exits the CleanMist® filter passes through a “ionizing” section where particles up to 0.03 microns receive a strong electric charge. The air flow passes through a second “collecting” section made of plates with opposite electric charge. Ionized polluting particles are attracted by the plates, sticking to them. Treated air is discharged in the environment with 99% of impurities removed.



FEF 2 and centrifugal filter with overhanging support



FEF 3 and centrifugal filter with frame for electrostatic filter



CODE	For CleanMist	Max airflow m³/h	Voltage (V)	Weight Kg	A mm	B mm	H mm
FEF2	CM 1000/2300	2300	220	32	550	570	420
FEF3	CM 1000/2300	2300	220	52	1050	550	550



Medium-heavy processing



Heavy processing

Maintenance

Proper maintenance ensures our filters smooth operation and high efficiency.

For this reason we do not just sell our products, but we support our Customers, both providing preventive training courses and ensuring immediate intervention of our technicians if malfunctioning occurs.

In addition to regular maintenance - machine functional testing after installation and technical assistance on request - we offer scheduled maintenance programs on an annual or triennial basis. We have noticed that preventive assistance reduces by 60% the number of interventions required for repair operations, thus reducing costs accordingly.

For customer assistance please contact:

E-mail: service@hfiltration.it



service@hfiltration.it

A cleaner world.



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