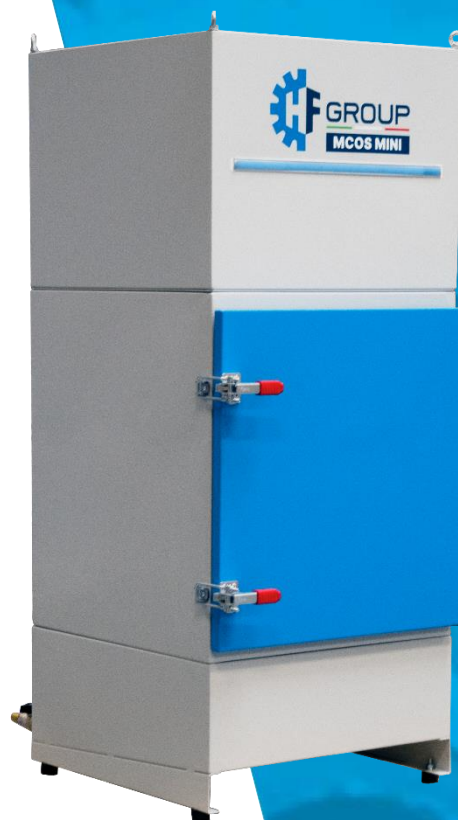




OIL  
MIST



# MCOS Coalescence filter

# MCOS is a filtration system designed to separate oil and smoke particles from the air in harsh work conditions, using the principle of coalescence

The polluted airflow passes through the multilayered glass fiber filter elements at low speed, where the real coalescence occurs. Crossing the increasingly thick layers of filtering media, the micro-particles of pollutants are agglomerated, reaching macroscopic dimensions.

Unlike traditional static filters, the coalescence filter does not work exclusively with clogging, as to percolate by gravity in the collection tank, significantly increasing the useful life of the filter.

Once the first filtering element has been passed, the airflow rises towards the next element at sufficiently low speed so as not to drag the smallest particles.

To ensure a higher level of purification, it is possible to add an additional absolute filtration stage (FFA), with an efficiency level of 99%.

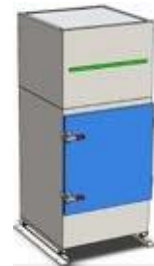
The collected oil particles are expelled through a drainage tube positioned in the lower part of the filter.

## Optional:

- ▶ Electrical panel with Start & Stop or VFD
- ▶ Absolute final filter (H11 or H13)
- ▶ Silencers
- ▶ DP Led

## MCOS Mini

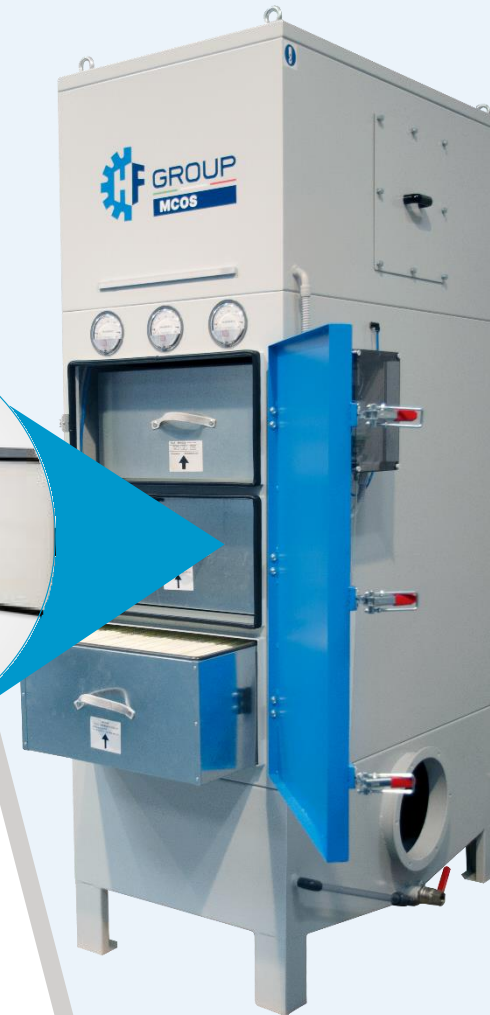
The new MCOS Mini has been developed in two versions:



MCOS-Mini-R  
To be installed on top of the machine tool.



MCOS-Mini-G  
To be installed on the ground and is equipped with a bin for collection of oil.





## Advantages

- ✔ High efficiency
  - 99,99% for particles larger than 1µm
  - 99% for particles larger than 0,5 µm
  - 95% for particles larger than a 0,2 µm
- ✔ Modular System
  - ▶ Standard version with 1 to 20 filter element
  - ▶ Standard version from 1000 m³/h a 20000 m³/h
- ✔ Easy installation
- ✔ Customized solution
- ✔ Technical assistance and after-sales service
- ✔ Costs saving management and maintenance

DP-LED Cyclic Timer with integrated DP control

On the filter is installed a 2-color LED stripe green and red. The stripe is mounted on the front of the filter and allows the operator to have a clear view of the clogging state of the filters.

-  GREEN LED - Normal operating status
-  RED LED - Clogged filters

## What is the principle of coalescence?

The coalescence is the physical phenomenon through which the drops of liquid, the bubbles of an aeriform, or particles of a solid, come together to form larger entities.



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