

AirMex M.E. the Oil Mist Collector that works!

MOBILE
MIST COLLECTORS:
M.E.-SERIE



ONE FOR ALL:

- Suitable for all types and work tool manufacturers!
- Whether you are working with open or closed machines,
- if you are using cooling liquid or spray,
- if you have 5 or 500 machines in operation,
- whether you use oil or water-based coolants,

the **M.E. Oil Mist Collector** provides the highest performance and long life at low costs.



Why the AirMex M.E. Oil Mist Collector?

We deal every day with all kinds of exhaust systems. For our oil mist collectors, we tried to find a device that gives you the best possible value for your money, and the most features used for common applications of oil mist collectors: It should be able to be both fixed mounted onto the machine, and can be used on the move. The quality of the system should be exceptionally high and the performance should be kept stable. At the same time, the follow-up costs for you should be as low as possible. The M.E. meets all these requirements:

MOBILE
MIST COLLECTORS:
M.E.-SERIE

HIGH QUALITY

The M.E. is extremely solid built and can withstand a permanent status of the highest demands. At the same time, the system is running with very low vibrations on your machine. The world speaks for this machine with tens of thousands of installations.



VARIABLE APPLICATIONS

The M.E. Oil Mist Collector can be either permanently installed on a machine, hang freely on a workstation, or be used as mobile suction

CONSTANT PERFORMANCE

There are different filter systems for oil mist separator: centrifugal filter, HEPA filter from paper, and an electrostatic filter made of metal. The M.E. works with electrostatic filters. This type of filter is most commonly used in mist collectors in Germany. Why? Electrostatic precipitators always work consistently and at very low costs.



Electrostatic Mist Collectors: Method of Operation

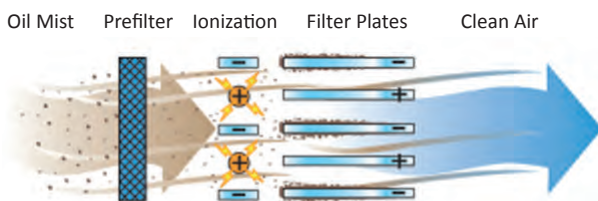
MOBILE MIST COLLECTORS: M.E.-SERIE

1. In the first step, the oil mist-containing air is sucked into the machine.
2. This first passes through a pre-filter made of aluminum wire mesh. Here coarse particles and chips are collected.
Advantage: This filter is maintenance-free and can be washed.
3. In the next stage, ionization, the particles are electrostatically charged in the sucked in air flow. This applies to all wet and dry particles in the sucked in air.
4. The charged particles then stick to the opposite polarity charged filter plates, like hanging on a magnet. This technique has been used for decades in oil mist collection and is absolutely reliable.
Advantage: The filter of this device are permanent filters made of metal. They do not need to be replaced as with other types of filters. A cleaning from time to time is enough.
5. The clean air will then returned back into the room.

Technical Specifications of AirMex M.E.-Oil Mist Collector Article Number: ILR11083106

| | |
|--|---|
| Voltage Required | 230V/50Hz, 1,0 Ampere, 180 Watt |
| Effective Extraction | 1.000 m ³ /h |
| Fan with backward curved blades, designed for: | 230 V / 50 Hz at 1.207 m ³ /h naturally aspirated |
| Noise Level | 69 dB(A) at 1,8 m distance |
| Separation Electrostatic Precipitator | 99% |
| Weight without Accessories | 47 kg |
| Shipping Weight | 57 kg |
| Dimensions | 648 x 318 x 655 mm |
| Ansaug-Anschlussöffnung | 451 x 267 mm |
| Suction Port Opening | 480 x 311 mm |
| Housing Construction | 1,2 mm Sheet Metal, Welded and Painted |
| Prefilter | 2 pieces, 511 x 311 x 48 mm |
| Main filter (double-pass) | 2 pieces, 511 x 311 mm inflow, Long Term Electrostatic Filter Cells |
| Post filter | Standard: Aluminum Knitted Fabric 511 x 311 x 48 mm Optional: Activated Carbon Plates 511 x 311 x 48 mm |
| Optional Accessories | HEPA Post Filter Activated Carbon Post-Filter Intake Box with Pipe Connection Extraction Arm for Source Capture Rollers for Floor Use Equipment Mounting Bracket |

METHOD OF OPERATION AND BENEFITS OF ELECTROSTATIC OIL COLLECTORS



Overview of the advantages of the AirMex M.E.:

MOBILE MIST COLLECTORS: M.E.-SERIE

- 1. Easy Installation:**

With the supplied mounting kit, the M.E. can be quickly mounted on or next to your machine. With a closed machine, an additional hole for the suction tube is cut into the machine housing at a convenient location. Then plug it in, and done. On request, our customer service can make the installation for you.
- 2. Easy Maintenance:**

The pre-filter is completely washable. The two electric filters made of metal must not be changed. Washing is enough.
- 3. Compact and Flexible:**

The M.E. Unit is light and compact and therefore fits well on almost all machines. In addition, the device can be used, depending on the application, hanging on a workstation or as a mobile version.
- 4. Low Follow-Up Costs:**

Compared to some other filter systems, the M.E. pays, in principle, for itself over its useful life. The resulting costs are very low, since the filter can be cleaned and need not be replaced. This helps to conserve the environment.
- 5. Infinitely Variable Power - Energy Cost Savings:**

Start with the lowest power on the M. E. and then rotate it smoothly to the required level until the oil mist and the smoke disappear. This will save from unnecessary wasting of energy.
- 6. Double Filter - Longer power:**

The M.E. is equipped with two separate electric filter cells. This increases the life of the filter and ensures a longer and reliable filter performance.
- 7. Cost Savings through Recirculation of Coolant Liquid:**

The harmful floating particles of sucked in oil mist stick and adhere to the filter cells. The heavy non-floating residual fluid collects, on the other hand, on the housing bottom of the M.E. From there they can be discharged via a tube, collected and recycled in the machine. This means an additional cost saving.
- 8. Constant Airflow:**

Oil mist collectors with HEPA filters as the main filter frequently have the disadvantage that the air permeability of the filter must always be adjusted upwards during the operating period in order to obtain a sufficient degree of purification. The airflow of the M.E. always remains constant. There is no readjustment necessary.
- 9. Vibration-free Operation:**

The M.E. runs opposite to some oil mist collectors with centrifugal technology, absolutely vibration-free on your machine. Thus avoiding any faulty parts that may be in the machine.
- 10. Reduced Cleaning Costs:**

With a M.E. on every machine, you can significantly reduce the residues of oil mist on walls, floors and all surfaces. This reduces your cleaning costs in the building.

We appreciate your interest and would like to advise you personally:

AirMex Air Cleaning Systems ■ Kufsteiner Straße 124e ■ D-83064 Raubling
Tel.: 0049 (0)8031 2576749 ■ Fax: 0049 (0)8031 8871894
Email: info@airmex.org ■ www.airmex.info

AirMex

Air Cleaning Systems

