EM-8eIII Compact Electronic Oil Mist Collector

The EM-8eⅢ collects mist generated in metal cutting processes. In this product, the charging electrode, which is the heart of the electrostatic precipitator, has been improved from the needle type to the brush type to increase the number of discharges, thereby further extending the life of the electrode maintenance cycle. In addition, the concentration of suctioned mist has been increased to 200mg/m3 compared to 100mg/m3 of the old model.

Electrical Filter Type

Oil mist / Water soluble mist

Max. airflow

Brushless DC electric motor

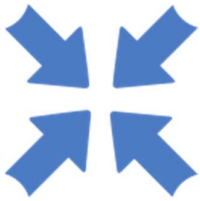
Features:

Stable mist collection of high-density mist by brush-charging electrodes.

- The electronic trapping method keeps filter costs at zero
- Zero Filter waste and No Filter To Clog
- High efficiency greater than 99%
- Small-capacity models
- For oil/water soluble mist collection

2 Times Improve

Compared to the previous model, the EM-8eIII can handle higher concentrations from 100mg/m3 to 200mg/m3.

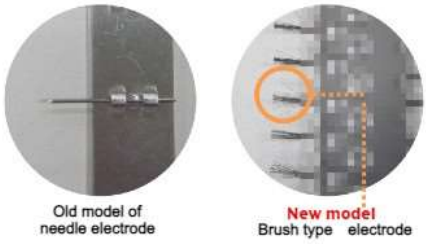


10 Times Higher

General water-soluble mist collector has a concentration of 20mg/m3 , so it has 10 times higher collection power.

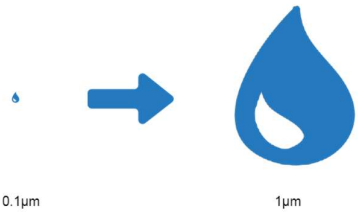
100 Times Wider

Compared with the old needle type, this model stably collects highly concentrated mist by increasing the number of discharge points per unit area by several hundred times.



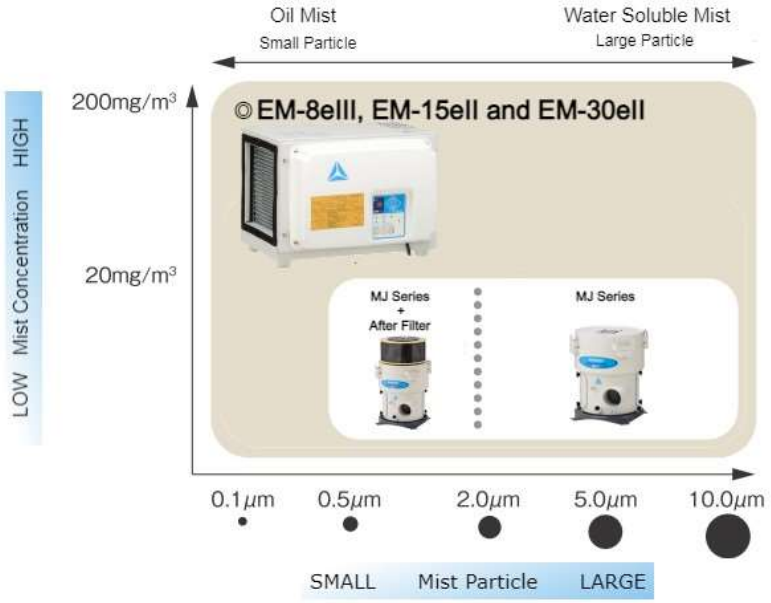
1000 Times Increases

Oil mist particle size is about one-tenth smaller than water-soluble mist. Oild mist concentration is 10 times higher than water-soluble mist. Oil mist mass increases 1000 times than water-soluble oil mist. The EM Series of electronic mist collectors is the only one that collects mist from your process machine which use pure and straight oil based cutting fluid.



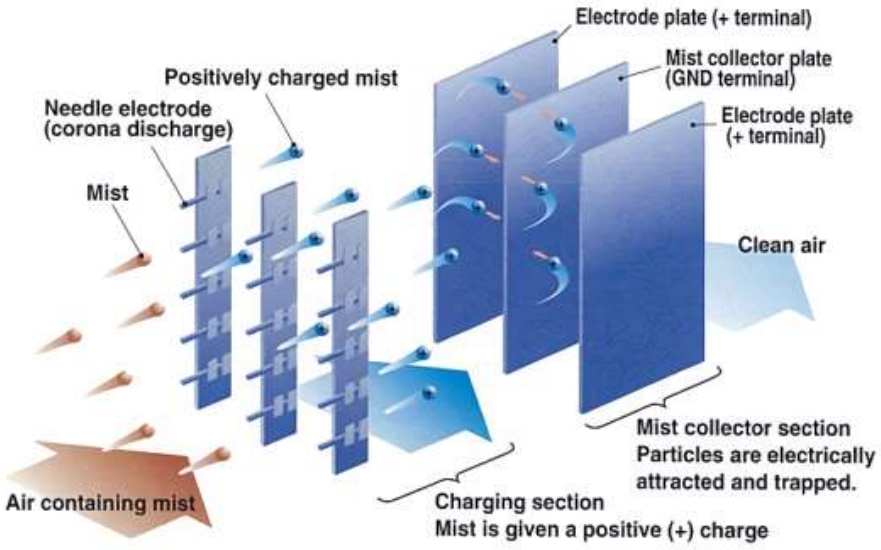
Difference Pure Oil mist and Water soluble oil mist

“OIL MIST” characteristic depends on cutting fluid type (Water-based or Straight Oil). Oil mist is a cutting fluid "vaporized" by heat. Water-soluble oil mist is which the cutting tools are physically "sheared" by the blade. Therefore, water-based mist particle is bigger 2-10μm, while for straight oil the mist particle is smaller 2μm and below. The particle size difference between water-based and straight oil is more than 10times. And also the mist concentration is more than 10times. If you are using straight oil as a cutting fluid, EM Series is the best choice.



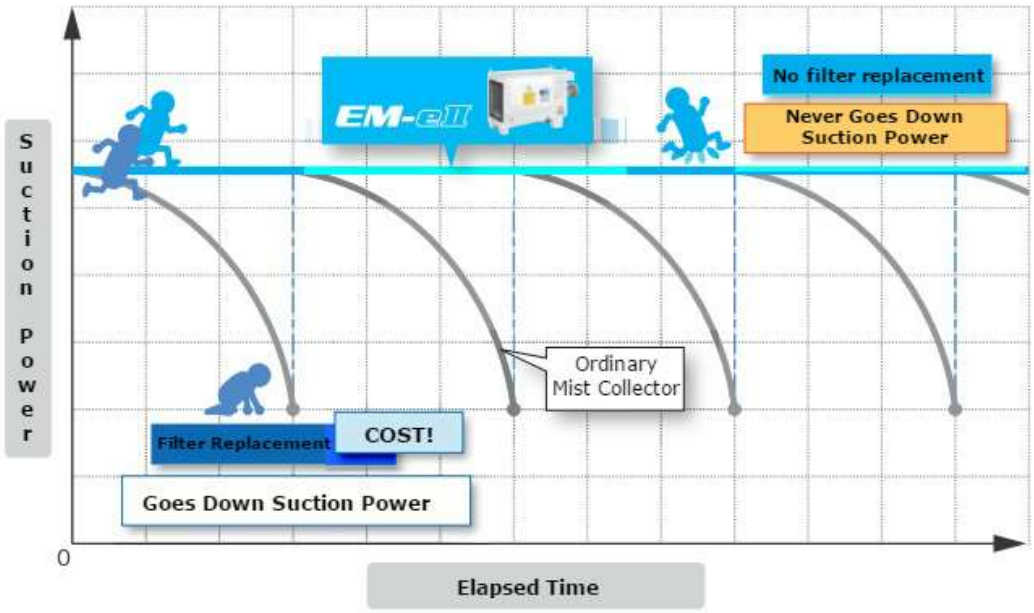
Breakthrough Electronic Trapping Method

Air containing mist particles passes through the charging section having the corona effect, and those mist particles become positively charged. When this charged mist flows into the final stages of the mist collector, it is electrostatically attracted to the mist collector plate (ground electrode) where it is collected and trapped.

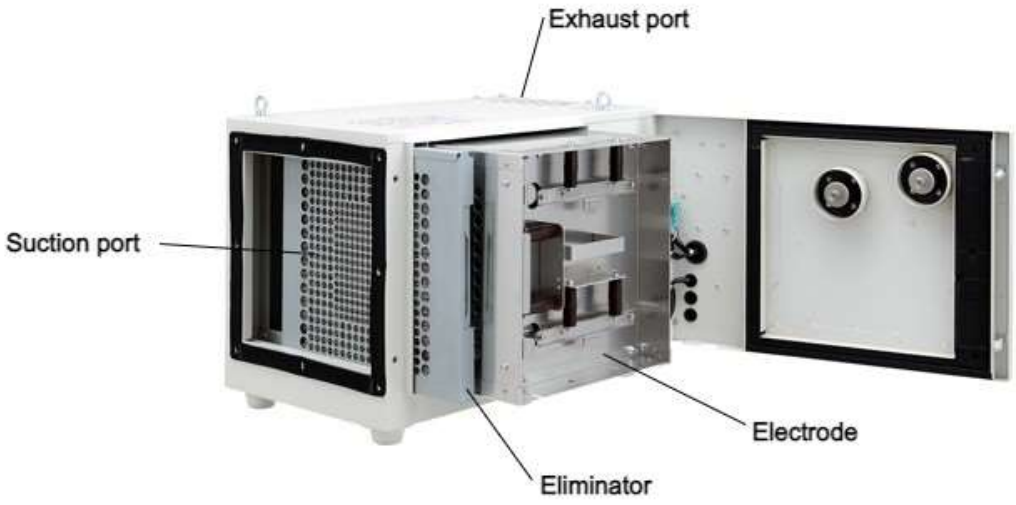


No Clogged Filter

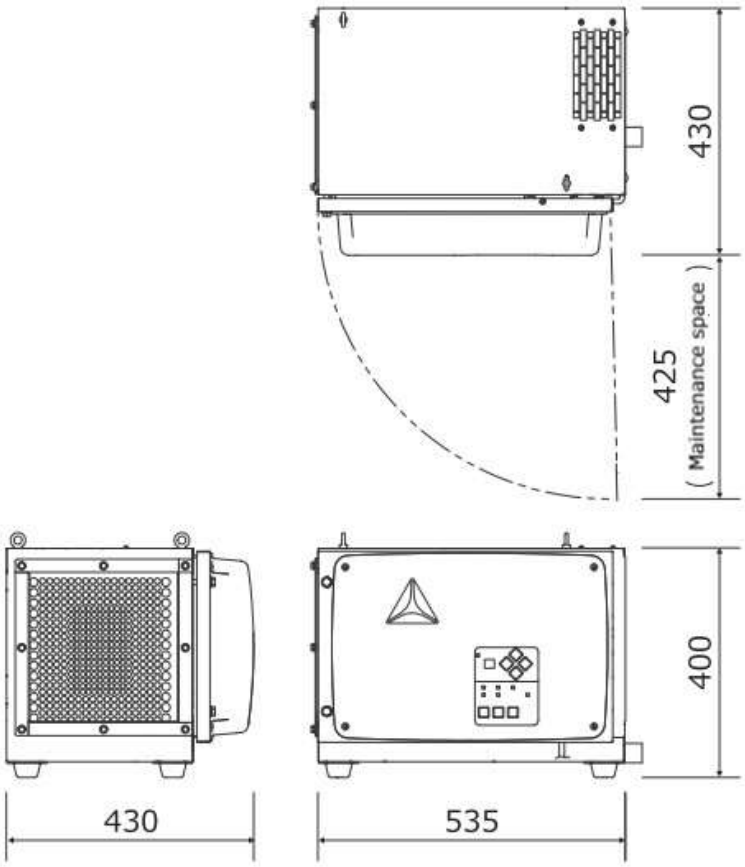
Unlike the old filter method, there is absolutely no drop in air flow due to clogging so air flow is always stable during operation.



Internal Structure



EXTERNAL VIEW



unit: mm

Particular	Unit	EM-8elll
Power Supply	Volt	220
Frequency	Hz	60
Phase		1-phase
Output	w	130
Max Airflow	m³/min	7.5
Max Static Pressure	Pa	900
Suction Port Ø	mm	100 or 125 or 150
Size(W x H)	mm	535x430x400
Weight	kg	29