

EM-15 & 15ell – Electronic Oil Mist Collectors



The EM Series of electronic mist collectors is the most innovative and technologically advanced series of mist collectors. This electrostatic method is over 99% efficient in trapping electronically charged mist particles. By utilizing tungsten electrode technology, the EM series showcases superb durability. This, along with the elimination of filters and the clogging associated with them, not only provides a reduction in maintenance and operational costs but keeps this design environmentally friendly as well.



Electrical Filter Type



Oil mist / Water-soluble
mist



Max. airflow



Premium efficiency
motor

Features:

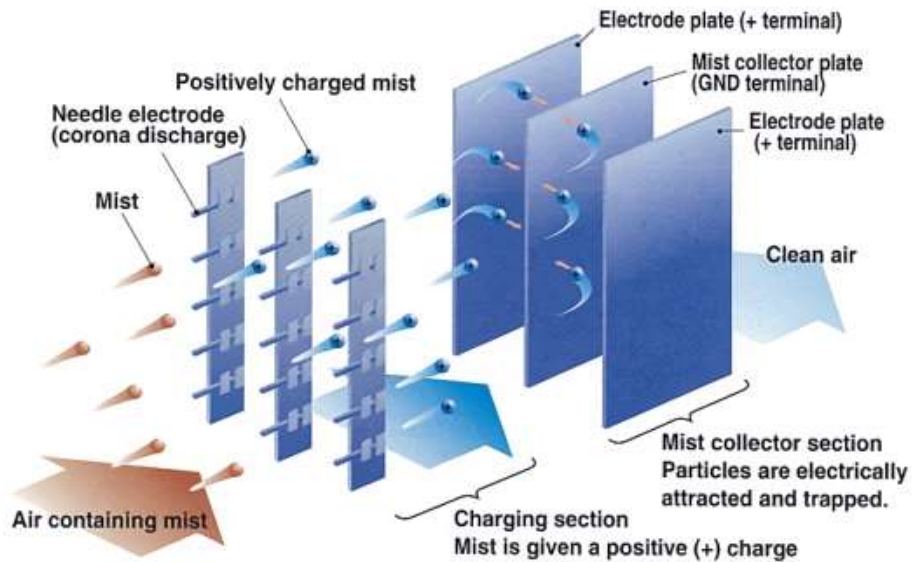
A powerful collection of highly concentrated mist up to 200mg/m³. The bestseller among electric collection Mist Collectors. Operational for both oil and water-soluble mist.

- 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



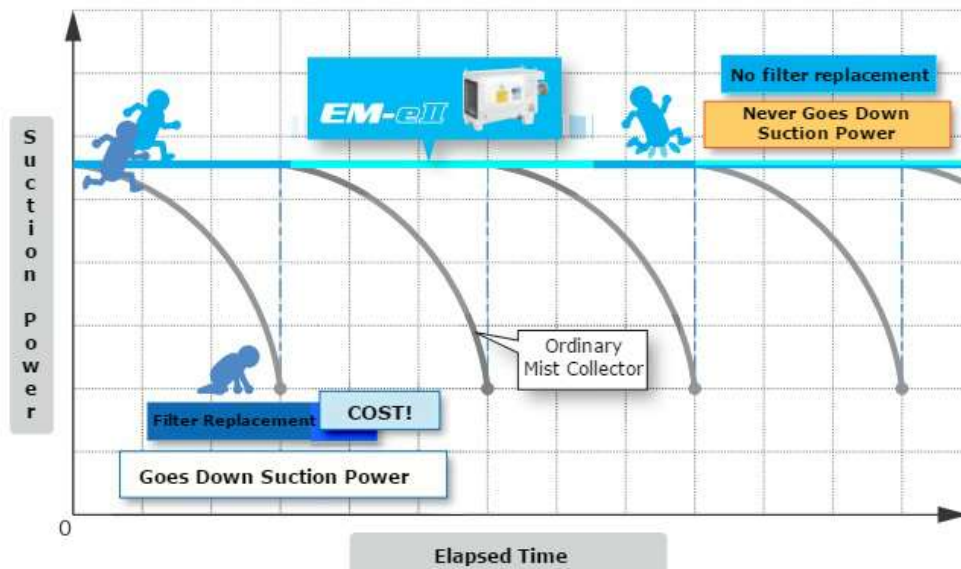
Breakthrough Electronic Trapping Method

Air-containing mist particles pass 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.



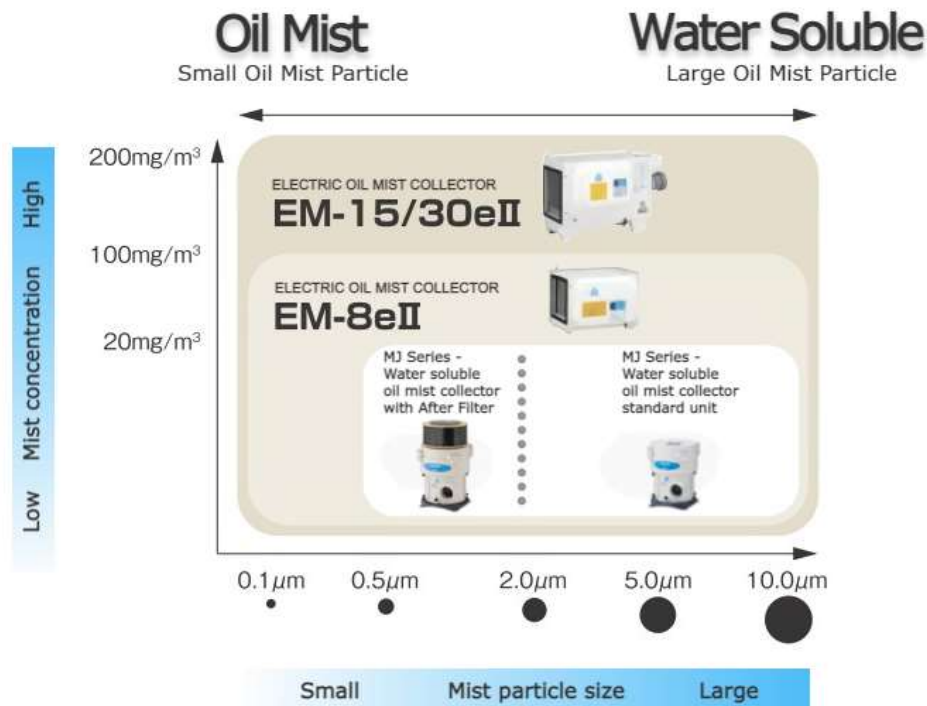
No Clogged Filter

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

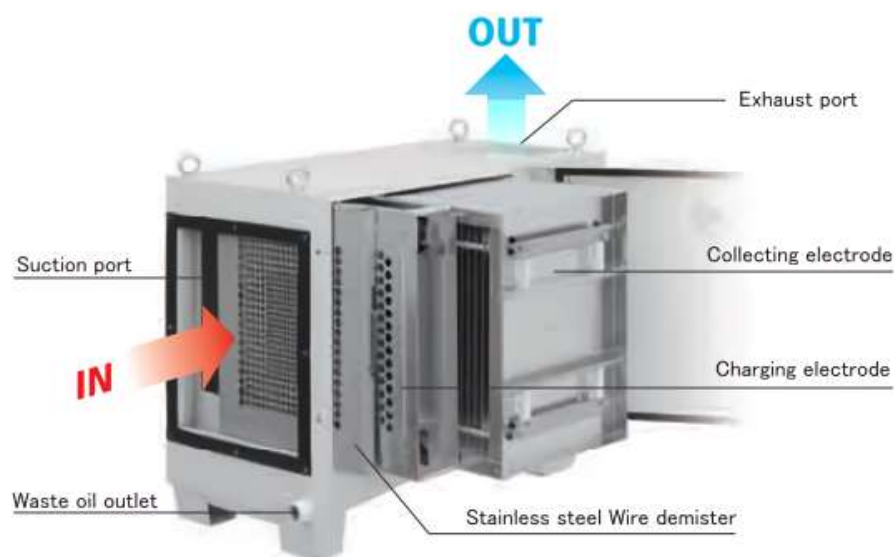


Difference Pure Oil mist and Water soluble oil mist

"OIL MIST" characteristic depends on cutting fluid type (Water-based or Straight Oil). Oil mits is cutting fluid "vaporized" by heat. Water-soluble oil mist is which the cutting tools is physically "sheared" by the blade. Therefore, water-based the mist particle is bigger 2-10 μm , while for straight oil the mist particle is smaller 2 μm 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 cutting fluid, EM Series is the best choice.

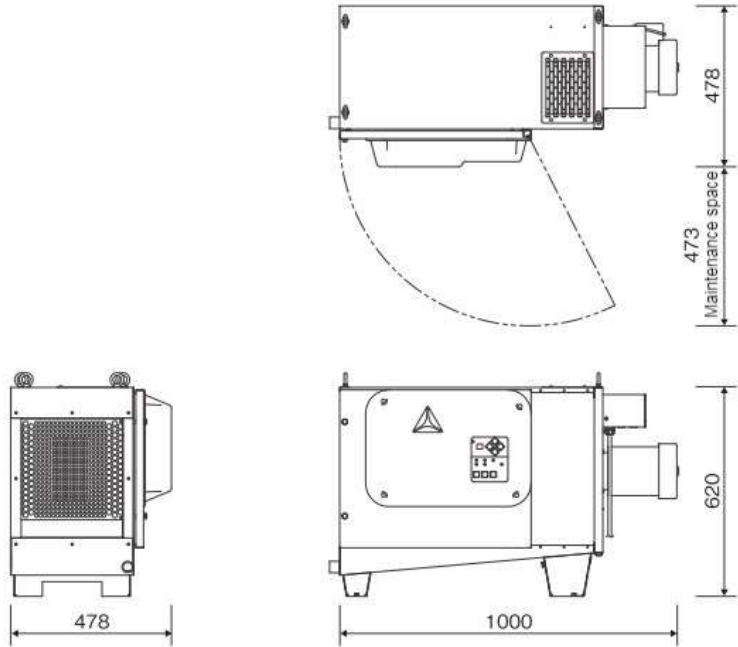


Internal Structure

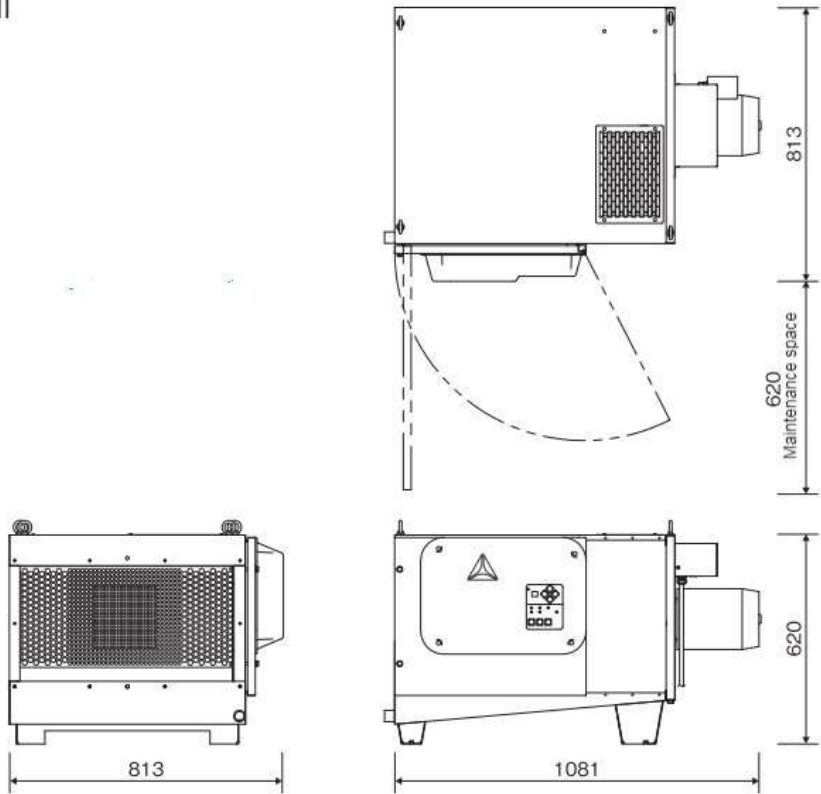


EXTERNAL VIEW

EM-15ell

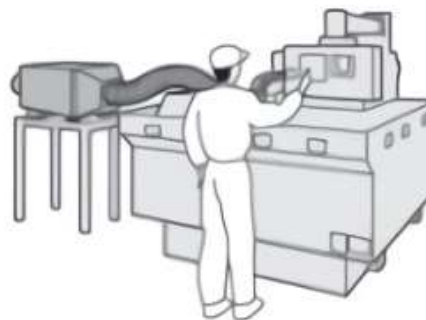
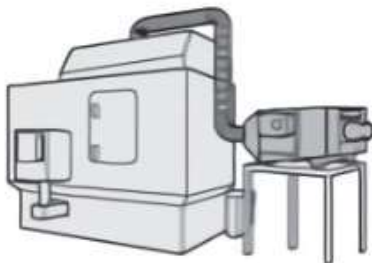
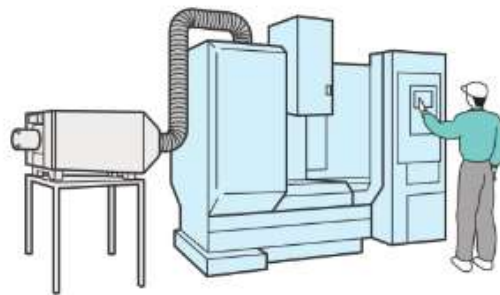


EM-30ell



Unit: mm

Application



Specifications

Particular	Unit	EM-15ell	EM-30ell
Power Supply	Volt	220	220
Frequency	Hz	50/60	50/60
Phase		3-phase	3-phase
Output	kw/hp	1.5/2.0	2.2/3.0
Airflow (50/60Hz)	m ³ /min	13.0/16.0	18.0/22.0
Static Pressure(50/60Hz)	kPa	1.0/1.5	1.0/1.5
Suction Port Ø	mm	150 or 200	200 or 250
Size(WxDxW)	mm	478x1000x620	813x1081x620
Weight	kg	70	115