

For: moisture mist and oil mist

OIL MIST COLLECTOR EM-15e/EM-30e OIL MIST COLLECTOR



Strict control of air-borne particles, with a minimum of waste products!
A new and innovative mist collector to meet a new generation of environmental needs!



A NEW ENVIRONMENTAL AGE

For a new generation that rates a company on how it deals with the environment

EM-e Series SPECIFICATIONS

Model	EM-15e	EM-30e	
Power (Volts*Hz)	3-phase 200V 50/60Hz		
Output (kW)	0.75	1.5	
Air capacity (m ³ /min)	50Hz	15(20)	
	60Hz	15(24)	
Static pressure (Pa)	50Hz	350(550)	
	60Hz	600(750)	
Noise (dB [A])	72±2		
Prefilter	Material	Non-woven polyester fabric	
	Dimensions (mm)	350×444×22	
Electric collection part	Charging system	Positive (+) charge, 2-stage charging system	
	Charging electrode type	Needle type	
	High voltage output	HV	10
		LV	6
	Current (mA)	3.5	7
Power consumption (W)	90	180	
Collecting efficiency	Relative weight ratio (%)	99 to 99.5 (Weight method * intake air intensity)	
	Max. input density (mg/m ³)	~200	
Allowable suction air temperature	Max. 40°C		
Ozone density (p.p.m.)	Less than 0.02		
Power cable (m)	3.5m (4-core, without plug)		
Oil drainage port	G1 (parallel female pipe threads : 1 inch)		
Size WxDxH (mm)	482.5×1050×620	812.5×1132×620	
Mass(kg)	70	114	
Paint color	JPIA J11-833		

* Figures in the () show fully open air capacity and fully closed static pressure.

CONSUMABLE PARTS TABLE

Part Name	EM-15e		EM-30e	
	Part No.	Qty.	Part No.	Qty.
Prefilter set (filter only)	NEK-2300	1	NEL-2300	1
Charging electrode set	NEK-210170	1	NEK-210170	2
Charging electrode	cat-whisker electrode	9	NEK-212150	18
	Support spring	9	NEG-2213	18
Collection electrode	NEK-220150	1	NEK-220150	2

Part Name	Part No.	Qty.
Amano Degreaser	VF-4343	10ℓ

OPTIONS

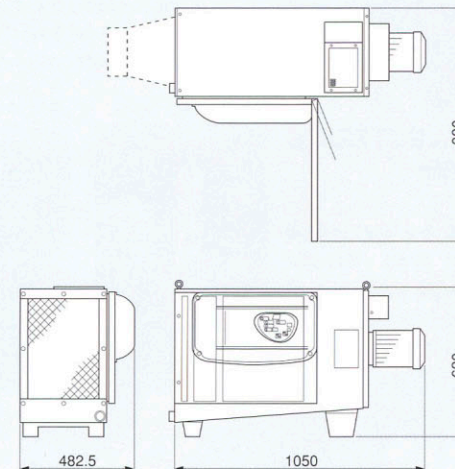
Part Name	EM-15e	EM-30e
Frame	H=300~800mm	H=300~650mm
Suction port (standard round-slot reducer silencers)	φ 100~250mm	φ 100~300mm
Muffler	NED-15517	NEE-15517

* Fire damper, extinguisher options available.

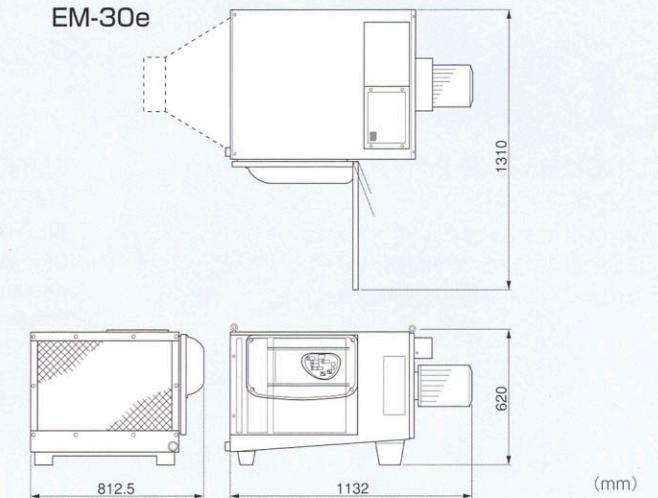
* For more information on the options, consult with our sales representative.

EXTERNAL VIEW

EM-15e



EM-30e



! FOR SAFE OPERATION

Read the following cautions and warnings and make sure you thoroughly understand them before attempting to operate the equipment.

- Use this device only for the purpose of sucking oil mist.
- Never allow any of the following substances to be sucked into the oil mist collector.
 - Inflammable substances - gasoline, thinner, benzene, kerosene, paint, etc.
 - Combustible dust/powder
 - Igneous substances - cigarette butts or ashes, etc.
 - Oil and mist that is inflammable below 80°C.
 - Other items -- water and chemicals, etc.

- Do not use the oil mist collector in or near locations where flammable, explosive or corrosive mist, fumes or gases are present.
- Always connect an electrical ground to avoid possible electrical shock.
- Use piping of a diameter that matches the dust collection conditions and has no drooping points where oil might tend to collect. Also layout the piping in the shortest possible distance.
- When you wish to suck exhaust gases such as from internal combustion engines or vacuum pumps, contact our dealer or sales representative to determine if it is acceptable.

Distributed by:

AMANO Corporation

275 MAMEDO, KOHOKU, YOKOHAMA, KANAGAWA, JAPAN
TEL. (045)439-1508 FAX. (045)439-1151
HOME PAGE : <http://www.amano.co.jp/>

HIGHLY CONCENTRATED MIST PARTICLES ARE COLLECTED BY CONSISTENT OPERATION, WHICH EXTENDS THE MAINTENANCE CYCLE TWICE AS MUCH!

1 **new** EM-e

COLLECTS BOTH WATER MIST AND OIL MIST

- Flexible for any change in cutting oils.
- Ready to accept to any changes in the production line.

2

EXTENDED MAINTENANCE CYCLE

- Cuts down on maintenance man-hours and labor.
- Less waste fluid as the washing cycles are reduced.

3

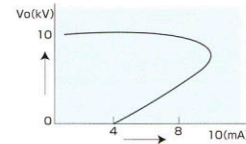
CONSUMABLE PARTS WITH A LONGER LIFE!

- Maintenance parts cost a lot less.
- Reduced amount of waste.

NEW

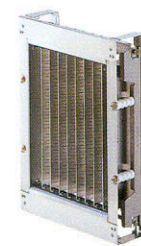
EQUIPPED WITH NEWLY DESIGNED HIGH VOLTAGE POWER SUPPLY!

Incorporates a newly designed high voltage power supply with flyback circuit and auto drooping characteristic strongly resistant to short circuits.



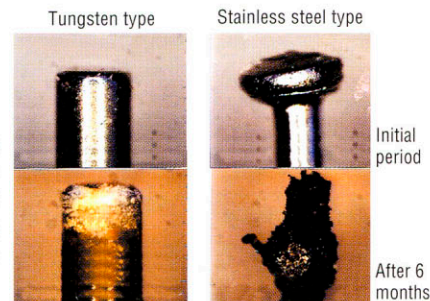
ELECTRICAL FIELD EFFECT & LAYOUT PREVENT DIRT BUILDUP ON THE INSULATOR

Collects contaminating mist generated by the electrical field around the insulator. Utilizes a spaced layout that protects the insulator from incoming air flow. Prevents dirt buildup on the insulator that can adversely affect maintenance conditions.

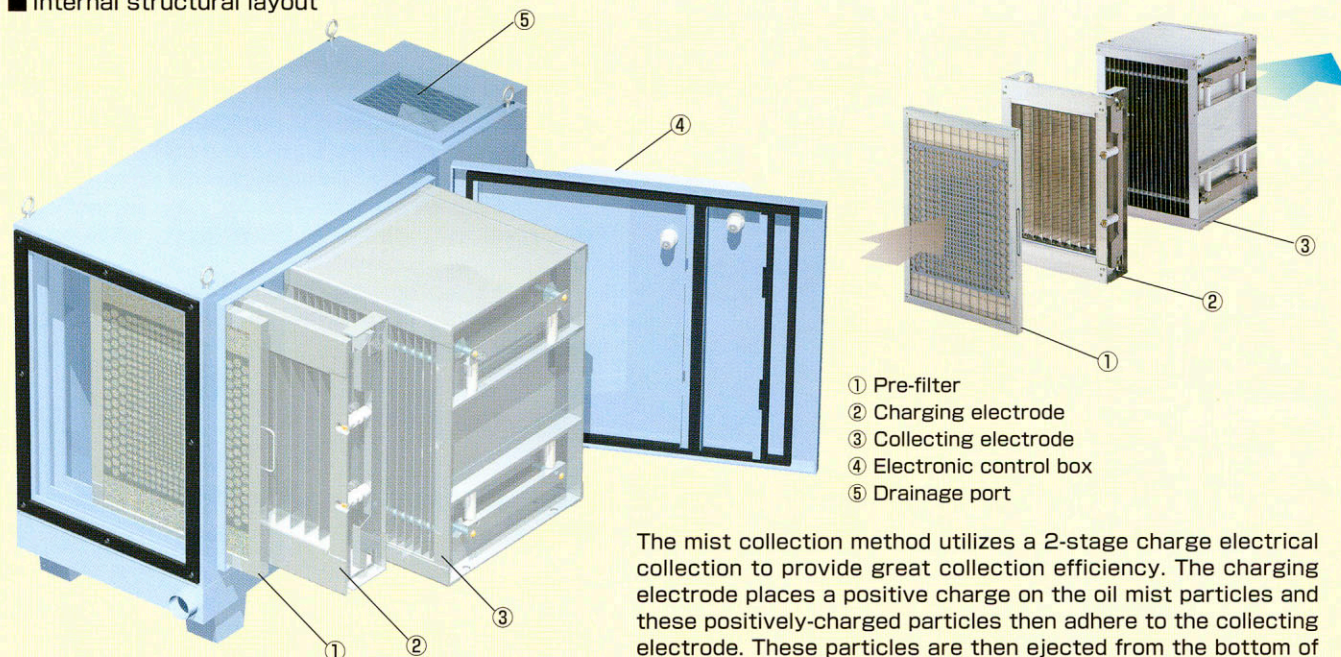


TUNGSTEN ELECTRODE HAVE SUPERB DURABILITY

Charging electrodes are a unique needle terminal type. Stable electrical discharge and use of tungsten material having superb durability provide needle electrodes with a long service life.



Internal structural layout

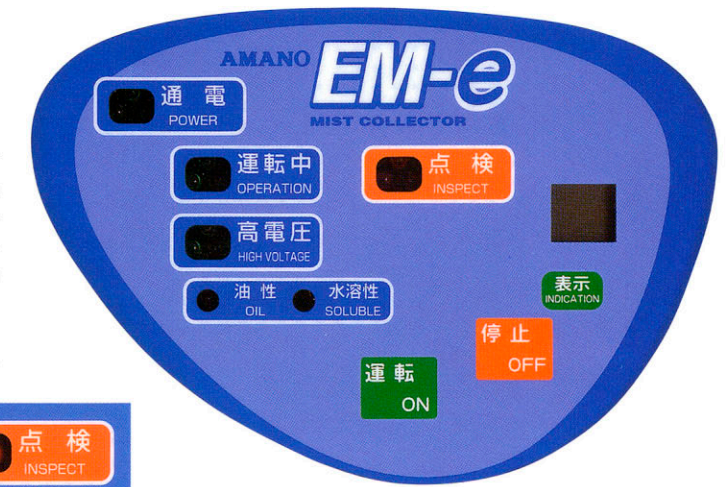


The mist collection method utilizes a 2-stage charge electrical collection to provide great collection efficiency. The charging electrode places a positive charge on the oil mist particles and these positively-charged particles then adhere to the collecting electrode. These particles are then ejected from the bottom of the unit as liquefied oil.

SAFETY

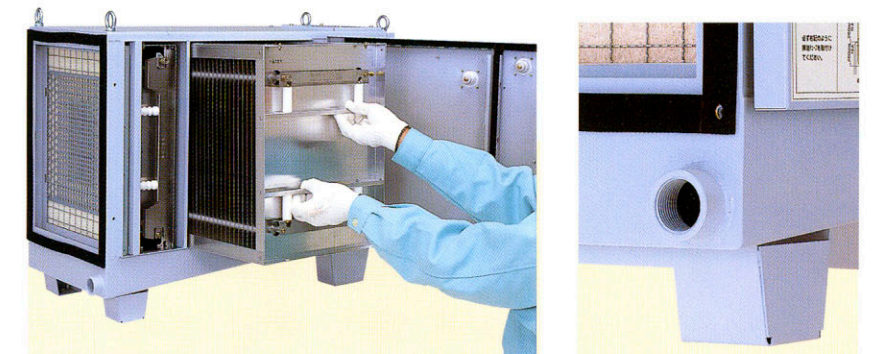
When sparks occur internally due to penetration of foreign matter, the CPU detects the time and the number of occurrences. A check is made as to whether this electrical discharge (spark) has impaired the machine operation. If the check by the CPU shows no problem with operation is found, then operation will resume while regulating the output. However if an inspection is required then the machine will stop its operation for safety.

The INSPECTION lamp lights up to warn the operator that maintenance or service is required. Error information and the total operating time are displayed on the message window. This also operates as a control panel to give more control information.

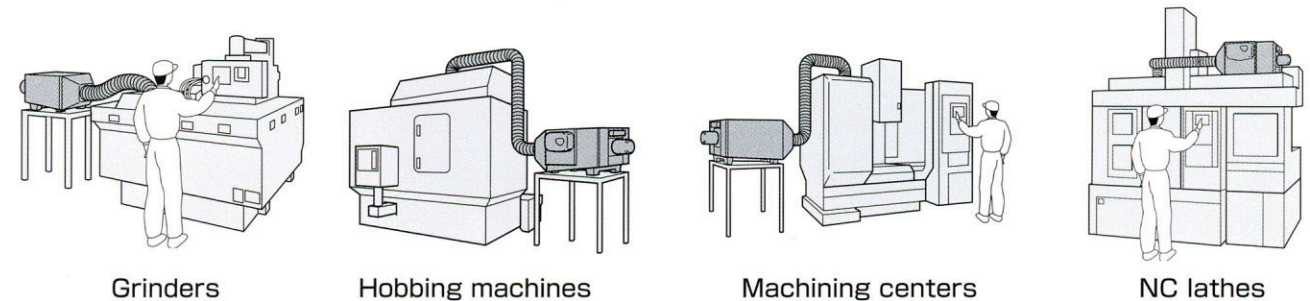


EASY

Drainage of the oil mist trapped by the collector is performed smoothly thanks to a large diameter exhaust port and sloped seating section. The inner structure of the unit has been simplified and cleaning is now quick and easy.



Applications



Lineup



EM-30e
Oil mist from several different locations is powerfully sucked.



EM-15e
A lightweight compact collector ideal for 1 machine - 1 collector setups.