

TIME & ECOLOGY  
**AMANO**

## SELF CLEANING ELECTRIC OIL MIST COLLECTOR

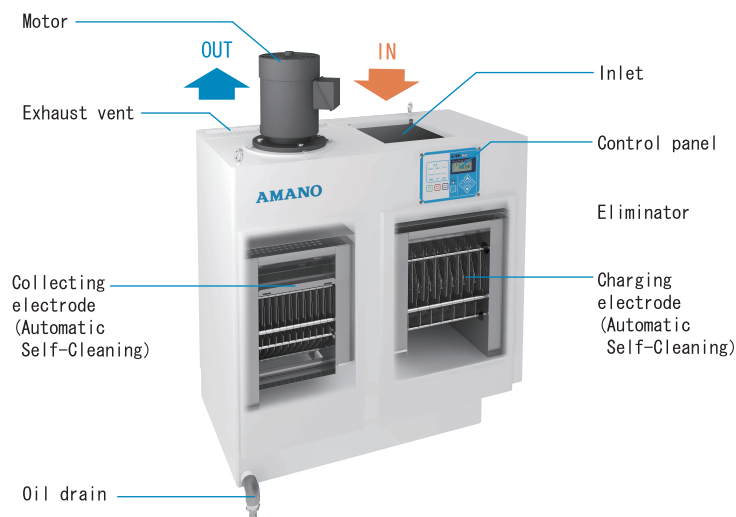
# EM-SC SERIES



Hosoe Facility in JAPAN

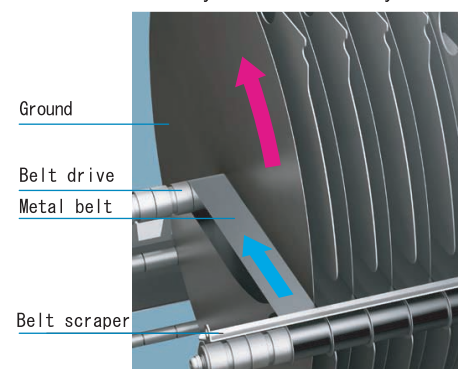
## Cleaning the Electrode Without Water and Detergent

### Automatic Self-Cleaning Model



### ■ Self cleaning function

New mechanism without needing water, shower, detergent, and centrifugal force. Mist collection and electrode cleaning are done simultaneously and continuously



## ■ Specifications

Model		EM-8SC	EM-15SC	EM-30SC
Power supply (Hz)		Three phase 50/60Hz		
Output (kW)		0.4	0.75	1.5
Maximum Capacity (m³/min)		more than 8.0	more than 15.0	more than 30.0
Maximum Static Pressure (Pa)		more than 500		
Noise (dB [A] )		less than 67±2	less than 72±2	
Preprocessing		Eliminator		
Plate Electrode (Charging Electrode/Collection Electrode)		EM-8SC exclusive use	EM-15SC exclusive use	EM-30SC exclusive use
Electric collection part	Charging system	Positive(+)charge, 2-stage charging system		
	Charging electrode type	Needle type (Titanium needle)		
	Charging Electrode Voltage (kV)	10 (4line)	10 (7line)	10 (14line)
	Collection Electrode Voltage (kV)	8 (6line)	8 (11line)	8 (24line)
	High voltage output (W)	20	40	70
	Power consumption (W)	Input 34	Input 68	Input 120
	Cleaning Method	Scraping Method by Metal Belt		
Collectable Mist		Water-soluble mist and oil-based mist Oil mist with a flash point of more than 80°C and water soluble mist Water soluble mist with electrical conductivity of less than 300mS/m		
Collecting system		Electric Dust Collection Method		
Collection Efficiency	Collecting efficiency (%)	99 (Weight method intake air intensity)		
	Max, input density (mg/m³)	~200		
	Permissible intake air temperature	40°C		
Power cord (m)		3.5 (4-core, without plug)		
Drain Diameter (mm)		1 inch nipple (Parallel external thread for G1 duct) ※Purchased separately		
Inlet	Purchased separately			
	Recommended Inlet Diameter	φ 150mm	φ 200mm	φ 250mm
Dimensions (mm)		702×476×1081	872×476×1093	1310×476×1197
Weight (kg)		84	105	135
Safety device		Door switch、High voltage power conditioning mechanism、 Reverse phase detecting circuit、Spark discharge blocking circuit Detection of increase in voltage、Rotation detection、Maintenance Timer、		
Coating color		JPIA Y25-90A		
Accessories		1 inch elbow 1 inch hose nipple		

An inlet packing comes with an optional inlet.

### For Your Safety

- Please read OPERATION MANUAL carefully prior to the start of operation.
- This machine should be operated for the purpose of collecting water-soluble mist and oil-based mist.
- Please install optional after-filter to collect oil mist.
- Do not collect following materials:
  - Inflammable materials: gasoline, thinner, benzene, kerosene, paint etc.
  - Powdery dust, Fumes
  - Combustible material: cigarette butt, ash etc.
  - Others: water, steam and chemicals
  - Oil and mist of low flash point (80°C or less)
- Ambient temperature range is from 0°C to 40°C.
- This model is not explosion-proof type. Do not install the machine at hazardous area designated by ordinance.
- Do not operate a mist collector in a place where pervaded with inflammable, explosive and corrosive fume, smoke, and/or gas.
- In order to prevent electrical shock, please make sure earthing connection.
- Please install a duct hose in optimum diameter by the most direct way to an inlet without slack in accordance with collection conditions.
- If you wish to collect exhaust air of vacuum pumps and/or internal combustions, please contact your local dealer and confirm the capability of this machine.
- Please conduct maintenance work of electrode as follows:
  - Check the dirt once or more a year
  - Clean the electrode when the dirt accumulated up to 2mm.
  - Clean the electrode when a machine often runs down.
- Do not turn on the power while machine inspection or parts replacement and do not start any operation before the fan has stopped rotating.
- A die-cast machine requires a specific mist collector. Please contact your local dealer for further information.
- This machine cannot remove odor and/or gas component.

Specifications and descriptions contained in this catalog may be subject to change without notice.

Please direct any questions to:

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