



Hosoe Factory in JAPAN

**SELF CLEANING
ELECTRIC OIL MIST COLLECTOR**

***EM-SCII* SERIES**

Cleaning the Electrode Without Water and Detergent

Lateral suction improve the installation flexibility



Specifications

Model		EM-15SC II Lt	EM-30SCII Lt	
Power Supply		50Hz 60Hz, Three-phase 200V		
Output	Fan (kW)	0.75	1.5	
	Electrode cleaning (kW)	7.0		
Usage point Airflow (m ³ /min)		50Hz	15 (Min 12.5 / Max 19)	30 (Min 25 / Max 34)
※ () is Min./Max. value		60Hz	15 (Min 12.5 / Max 22)	15 (Min 25 / Max 40)
Usage point Static Pressure (kPa)		50Hz	0.27 (0.55)	0.19 (0.45)
※ () is Min./Max. value		60Hz	0.54 (0.75)	0.42 (0.60)
Pre-processing		Metal eliminator		
Electrode (Charging electrode / Collecting electrode) (pcs)		1	2	
Electric collection part	Electric charge method	(-) Negative charge, 2-stage charging system		
	Charging electrode type	Needle type		
	Electrode charging voltage HV (kV)	10	10	
	Collecting electrode voltage HV (kV)	8	8	
	Output (kW)	20	40	
Cleaning method		Cleaning by rotating electrode & stationary scraper (collecting electrode)		
Objects for collection		Oil mist, Water soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°C or more Water soluble mist with electrical conductivity of 300mS/m or less		
Collecting system		Electric dust collection method		
Collection efficiency (%)		99 (weight ratio by filter paper)		
Maximum inlet concentration (mg/m ³)		~200		
Permissible intake air temperature (°C)		0~40		
Ambient temperature (°C)		0~40		
Suction port		Option		
Recommended piping diameter of suction side (mm)		φ 200	φ 250	
Dimensions W × D × H (mm)		1234 × 500 × 620	1334 × 835 × 620	
Weight (kg)		83	128	
Paint color		JPMA F35-85A		

※ Listed figures apply to standard unit, and those may change depending on custom requirements.

For Your Safety

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This machine is for collecting mist of water-soluble cutting fluid and oil-based cutting fluid.
- Do not suction the following materials:
 - Flammable materials...gasoline, thinner, benzene, kerosene, paint, etc.
 - Dust and Fumes
 - Fire remains...cigarette butts, ashes, etc.
 - Others...water, oil, water vapor, liquid chemicals, toxic dust such as asbestos, etc.
 - Oil or mist with low flash point (80°C or less)
- Please use the machine at below the maximum inlet concentration.
- Keep the operation ambient temperature between 0 to 40 °C (32 to 104 °F).
- This machine is not an explosion-proof type. Do not install the machine at hazardous area specified by laws.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Be sure to ground the machine to avoid electric shock.
- Ensure that the pipe work is straight not to allow powder to accumulate, with appropriate diameter and shortest length according to powder collection condition.
- If you wish to use the machine to suck exhaust air from internal combustion engine or vacuum pumps, etc. please contact Amano branch office or sales office to determine if it is acceptable.
- Maintenance of electrodes must be performed as follows:
 - Inspect the electrodes for dirt accumulation once or more a week.
 - Clean electrodes when the dirt accumulated reaches to 2mm.
 - Clean electrodes when the mist collector frequently stops by power shut down even after inspection.
- Always turn power off and ensure that the fan rotation has completely stopped before performing maintenance.
- Do not use flammable substances to clean the collection unit and the main unit.
- If the inflammable substance remains on the machine, it may catch fire and explode.

【Banned inflammable substances】

- Inflammable liquid such as gasoline, kerosene, thinner, toluene, etc.
- Inflammable detergents (cleaners marketed under the name of Part cleaner, Break cleaner, etc.)
- Use soluble oil/grease removal detergent when cleaning the main unit and adhered oil of collecting unit. Always comply with the instruction listed on the detergent when using it.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual.
- Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- Please comply with any regulations stipulated by laws and ordinances for installation of dust collector.
- As a die-cast machine requires a specific mist collector, please contact Amano branch office for more 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:

AMANO Corporation

275 MAMEDO-CHO, KOHOKU-KU, YOKOHAMA,
JAPAN 222-8558
TEL.+81-45-439-1508 FAX.+81-45-439-1150
Website: <http://www.amano.co.jp/English/>