



Industrial Equipments



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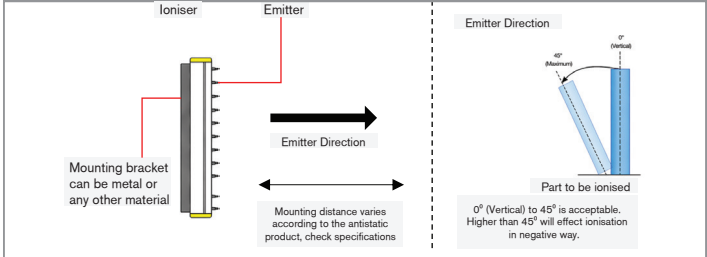


Instruction Manual

Product: SE-ACS Series
High Power Compact Spot
Nozzle AC Static Eliminator

IMPORTANT

Attention: When assembling ionisers without air, always emitter direction look towards the part. Tilt mounting up to 45 degrees would be ok but be informed that higher than this angle will effect ionisation in negative way.



Attention: Do not cover the ioniser with metal or attach metal close to the emitter pins of the ionisers.



Attention: Never put metal behind part to be ionised. This will cause static eliminator unable to neutralize the part.



1. Intended Use

The SE-ACS Series Antistatic Cleaning System is designed for use in industrial environments for localised dust removal, surface cleaning and static charge neutralisation on plastic, glass, metal, fabric and other material surfaces.

The system combines compressed air with high performance ionisation technology in order to remove dust and particles from the target surface while simultaneously eliminating static charges that attract contamination. Positive and negative ions are generated by long lifetime tungsten emitter pins and transferred to the application area through directed airflow, providing effective cleaning and ionisation performance even at working distances up to 1000 mm.

The product is intended for spot cleaning applications, automated production lines, robotic systems and industrial processes requiring flexible and targeted cleaning or ionisation. Up to four ioniser nozzles can be connected to a single power unit depending on the application requirements.

The SE-ACS Series features shockless operation, washable mechanical construction and compact industrial design suitable for continuous industrial operation. The system must be operated with clean, dry and oil-free filtered air and within the limits specified in the technical data and installation instructions.

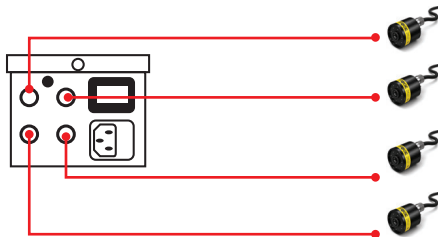
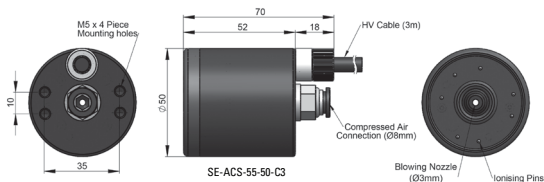
The product must be used in such a way that no persons are endangered and no machines or other material goods are damaged. For applications in which operational safety or process reliability is safety-relevant, additional protective measures must be implemented by the system integrator or machine manufacturer.

2. Technical Information

Technical Information		
Product	SE-ACS-55-50-C3	
Air Connection	8mm hose	
Air pressure-dry filtered air	4 to 6 bar	
Inlet Pressure	4 bar	6 bar
Air Consumption (liter/min)	250	280
Power Supply	SE-PAC-55-2-C, SE-PAC-55-4-C	
Air flow speed (m/s) (Measured at 100m)	18	20
	C3: 3m. HFFR protected with HV connector. (up to 12 m optional)	
	Clean, dry and oil-free environment. 60 °C maximum temperature.	
	70 % rH non-condensing max. IP66. Fully sealed.	
	85 to 90 dB	
	Shockless, pin current < 250µA, transformer current max 5mA(with fuse)	
	2014/30/EU EMC Directive	
	2014/35/EU Low Voltage Directive	
	According to tests done from 300mm distance with air(4-6bar) ion balance on he surface is below ±35V	

3. Dimensions / Installation

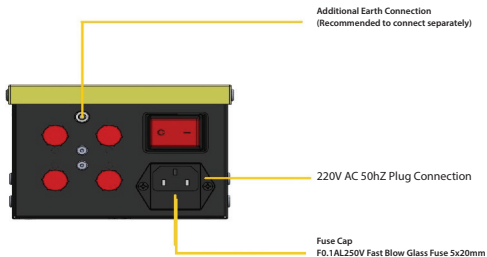
System operation assumes knowledge of the assembly instructions. The symbols used for safety is shown in section 8(Safety) of manual.



For all models, maximum length of cable and bars connected(total) can be used is 15m. If length of cables and bars exceed 15m. Power unit will not work properly and may cut the power to prevent damage.



4. Electrical Connection



Connect Antistatic Bar with Metal Screw Type HV Connectors which FÖGE bars have as a connection.



5.1. Displays/Indicators

- 220V AC

5.2. Controls

- ON/OFF Switch

6. Faults

In any of below cases or others do not open the product.  

If switch is on but the ON/OFF light is OFF, change the fuse inside the power unit. Fuse type: F0.5AL250V Fast Blow Glass Fuse 5x20mm

7. Warnings

Connect the power supply and the display/output device according to the safety regulations for electrical equipment.

The supply voltage must not exceed the specified limits.

Avoid shocks and impacts to the sensor.

Protect the cable against damage.

Possible Results of Avoidance

Risk of injury by electric shock 

Damage to or destruction of the sensor  

8. Maintenance

Because of the nature of ionisation process particles in the air sticks to the emitter pins and carbonizes. This process have a negative effect on ionisation performance.

All AC and DC ionising bars should be checked regularly and cleaned. FÖGE

Antistatic Bar Celaning Liquids and Brushes. 

9. Safety

System operation assumes knowledge of the assembly instructions. The following symbols are used in these assembly instructions:



Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.



Indicates a situation that may result in property damage if not avoided.



Indicates an electrical shock if not avoided or properly follow comments.

10. Liability for Material Defects

All components of the device have been checked and tested for functionality at the production facility. However, if defects occur despite our careful quality control, FÖGE or your dealer must be notified immediately.

The liability for material defects is 12 months from delivery.

Within this period, defective parts, except for wearing parts, will be repaired or replaced free of charge, if the device is returned to FÖGE with shipping costs prepaid. Any damage that is caused by improper handling, the use of force or by repairs or modifications by third parties is not covered by the liability for material defects. Repairs are carried out exclusively by FÖGE.

Further claims can not be made. Claims arising from the purchase contract remain unaffected. In particular, FÖGE shall not be liable for any consequential, special, indirect or incidental damage. In the interest of further development, FÖGE reserves the right to make design changes without notification.

11. Decommissioning, Disposal

Remove the power supply and output cable on the sensor.

Incorrect disposal may cause harm to the environment.

Dispose of the device, its components and accessories, as well as the packaging materials in compliance with the applicable country-specific waste treatment and disposal regulations of the region of use.