SE-ACA Long Range AC Antistatic Bar with Air

Air-assisted 5.5 kV or 8 kV AC ionization up to 400 mm — for 3D parts, wide-gap installations and high-speed lines



KEY DATA

Ionization voltage
5.5 kV

Ionization range
Up to 200 mm (SE-ACA-55) · up to 400 mm (SE-ACA-80), with compressed air

Max. line speed
300 m/min

Ordering length
100 – 2000 mm in 100 mm steps

Overview

The FÖGE SE-ACA is a long-range AC antistatic bar that combines high-voltage AC ionization with integrated compressed air delivery to reach an ionization range of up to 400 mm with the 8 kV SE-ACA-80 (up to 200 mm with the 5.5 kV SE-ACA-55) — compared with up to 250 mm for the passive SE-ACB-80. The bar generates ions at its stainless steel emitter pins in the same way as the SE-ACB-80, but a built-in air channel carries the ions outward to the target surface. This makes the SE-ACA the right choice where the bar must be mounted well away from the material, where 3D-shaped plastic parts need ions in recesses and cavities, or where the reach of an air-assisted system is needed without changing to pulsed DC technology.

Key features

- Ionization range up to 400 mm (SE-ACA-80) or 200 mm (SE-ACA-55) with integrated compressed air
- Two versions: 5.5 kV for the SE-PAC-55 or 8 kV for the SE-PAC-80
- Effective at line speeds up to 500 m/min (SE-ACA-80) or 300 m/min (SE-ACA-55)
- Integrated air channel carries ions to extended distances and into 3D cavities
- Orderable from 100 mm to 2000 mm in 100 mm steps
- Shockless design (< 100 µA)
- Stainless steel emitter pins — long service life
- Washable housing · IP66
- Screened HFFR-protected cable with plug-and-play HV connector
- Up to 4 bars per SE-PAC power unit

Technical specifications

Product code	SE-ACA-55-xxxx (5.5 kV) · SE-ACA-80-xxxx (8 kV) — length in mm, e.g. SE-ACA-80-0600 = 600 mm
Compatible power unit	SE-ACA-55: SE-PAC-55-2-C / SE-PAC-55-4-C · SE-ACA-80: SE-PAC-80-2-C / SE-PAC-80-4-C
Ionization type	High voltage AC — shockless
Ionization voltage	5.5 kV (SE-ACA-55) · 8 kV (SE-ACA-80)
Ionization range	Up to 200 mm (SE-ACA-55) · up to 400 mm (SE-ACA-80), with compressed air *
Max. line speed	300 m/min (SE-ACA-55) · 500 m/min (SE-ACA-80)
Ordering length	100 – 2000 mm in 100 mm steps

Air connection	10 mm hose
Air pressure — dry filtered air	2 bar (8 bar max.)
Pin current (safety)	< 100 µA — shockless (both versions)
Transformer current	Max. 5 mA (with fuse)
Emitter pin material	Stainless steel — long service life
Polarity	Alternating AC
Cable	C2: 2 m HFFR-protected cable with HV connector
Bars per power unit	Up to 2 or 4 per SE-PAC (2- or 4-output version), within 12 m total length of cables and bars
Environment	Max. 60 °C · 70 % rH non-condensing max.
Protection class	IP66 — fully sealed
Housing	Washable, industrial-grade
EMC compliance	2014/30/EU — EMC Directive
Electrical safety	2014/35/EU — Low Voltage Directive

* Ionization range measured at standard conditions (20 °C, 50 % rH, with compressed air). Effective range may vary with air pressure, humidity, temperature and line speed.

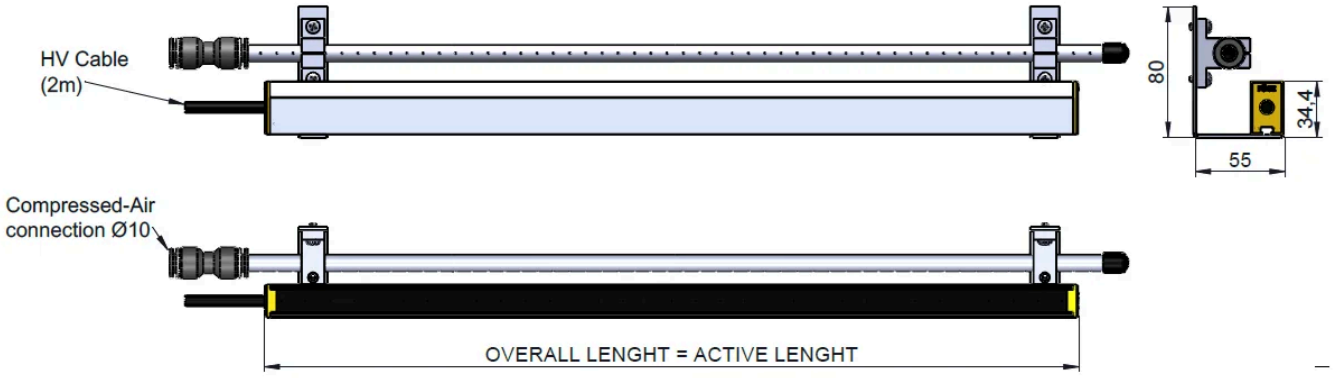
Versions

	SE-ACA-55	SE-ACA-80
Ionization voltage	5.5 kV	8 kV
Power unit	SE-PAC-55-2-C / SE-PAC-55-4-C	SE-PAC-80-2-C / SE-PAC-80-4-C
Ionization range (with compressed air)	Up to 200 mm	Up to 400 mm
Max. line speed	300 m/min	500 m/min
Ordering length	100 – 2000 mm	100 – 2000 mm
Everything else	Identical: air connection, cable, housing, environment, safety	Identical: air connection, cable, housing, environment, safety

Which product to choose — SE-ACA, SE-ACB-80 or SE-DCA-110

	SE-ACA (this product)	SE-ACB-80	SE-DCA-110
Technology	AC + compressed air	AC passive	Pulsed DC + compressed air
Range	Up to 400 mm (SE-ACA-80) · 200 mm (SE-ACA-55)	Up to 250 mm	Up to 1000 mm
Power supply	SE-PAC-80 or SE-PAC-55 HV unit	SE-PAC-80 HV unit	24 V DC (SE-PSU-24-C-M12)
Air required	Yes	No	Yes
3D part reach	Yes — air carries ions in	Limited	Yes — air carries ions in

Dimensional drawing



Dimensional drawing of the SE-ACA: overall length equals active length, cross-section 80 × 55 mm, bar profile 34.4 mm, 2 m HV cable, ⌀ 10 mm compressed-air connection

Complete system — what you need

SE-ACA bar (specify length)	Long-range ionizing bar with integrated air channel
SE-PAC-55-2-C / -4-C or SE-PAC-80-2-C / -4-C	Required — 2 or 4 output AC power unit: 5.5 kV for the SE-ACA-55, 8 kV for the SE-ACA-80
Compressed air supply	Dry, filtered air at 2 bar (8 bar max.) via 10 mm hose
SE-CAB-AC-1 extension cable (optional)	Non-standard cable lengths in 1 m steps within the 12 m total length per power unit

Product information and ordering: sales@fogegmbh.com · +49 9372 9809477 · foge-antistatic.com