SE-ACIN-55 AC Inline Air Ionizer

Compact spot ionization for integration into dust cleaning machines, custom airguns and automated systems



KEY DATA

Ionization type
5.5 kV AC

Air pressure
6 bar inlet

Air flow speed
14 m/s at 300 mm (SN variant)

Air connection
⌀ 8 mm hose

Overview

The FÖGE SE-ACIN-55 is a compact, high-efficiency inline ionizing unit designed to deliver focused spot static elimination and dust removal in embedded or machine-integrated applications. Unlike standalone airguns or wide-area ionization bars, the SE-ACIN-55 is built to be integrated directly inside dust cleaning boxes, custom-built airguns, enclosed cleaning stations and OEM equipment — providing targeted ionized airflow precisely where contamination control is needed.

Key features

- Compact inline design — integrates directly into enclosures, cleaning boxes and custom machine builds
- 5.5 kV AC shockless ionization — operator-safe and suitable for sensitive equipment environments
- Two variants: NN (no nozzle, adjustable needle) and SN (fixed spot nozzle)
- Focused spot ionization — delivers ionized air precisely where it is needed
- Replaceable, adjustable-length emitter pin (NN) — reaches deep cavities, part stacks or narrow tooling
- Ionization range up to 300 mm (SN variant)
- Compatible with multiple nozzle configurations — spot cleaning, air knives, custom channels
- Nozzle-free option (NN) for OEM integrators designing custom airflow paths
- Shockless operation — safe for use near sensitive electronics and precision components
- Three cable length options: 3 m (C3), 5 m (C5), 12 m (C12)
- Up to 4 units per SE-PAC-55 power unit

Technical specifications

Variants	SE-ACIN-55-NN-C3 (no nozzle) · SE-ACIN-55-SN-C3 (spot nozzle)
Compatible power unit	SE-PAC-55-2-C (2 outputs) · SE-PAC-55-4-C (4 outputs)
Ionization type	5.5 kV AC — shockless
Pin current (safety)	< 250 µA; transformer current max. 5 mA (fused)
Polarity	Alternating AC
Air connection	⌀ 8 mm hose — straight fitting
Air pressure	6 bar inlet — clean, dry, oil-free filtered air
Air flow speed	14 m/s at 300 mm (SN variant)

Noise level	83 dB at 1000 mm
Operating temperature	0 – 50 °C
Max. humidity	70 % rH, non-condensing
Housing	Industrial-grade, impact-resistant
EMC compliance	2014/30/EU — EMC Directive
Electrical safety	2014/35/EU — Low Voltage Directive
Cable — C3 (standard)	3 m HFFR-protected flex cable with HV connector
Cable — C5 (option)	5 m HFFR-protected flex cable with HV connector
Cable — C12 (option)	12 m HFFR-protected flex cable with HV connector
Units per power unit	Up to 4 units per SE-PAC-55 power unit

Variant-specific values (ionization range, air consumption, weight) are listed in the variant table above.

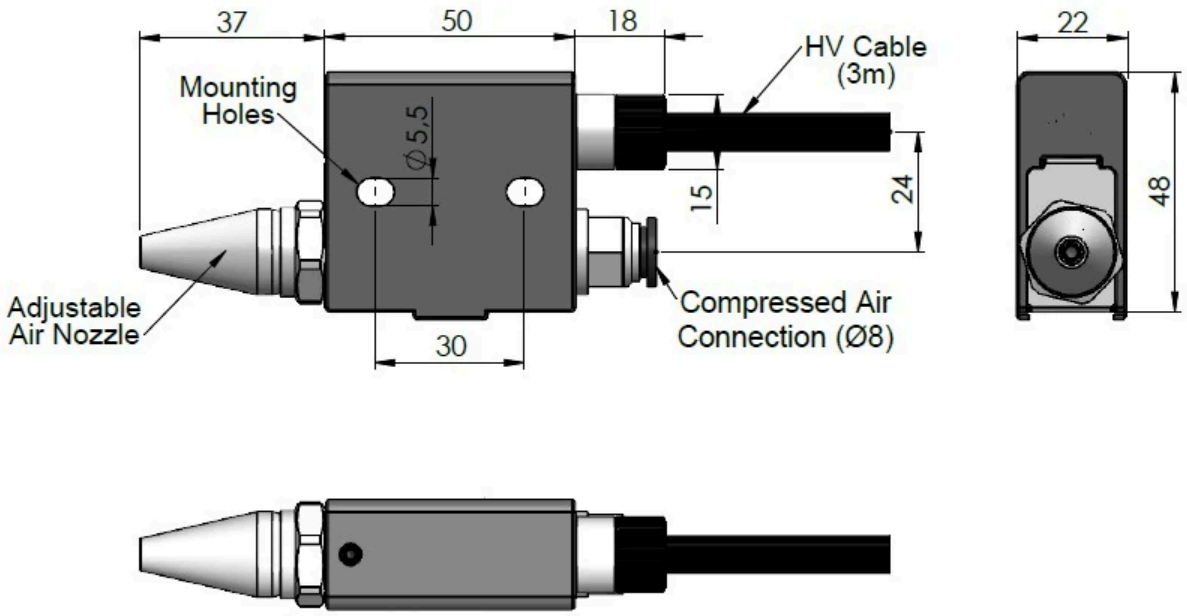
Variants — NN (no nozzle) vs SN (spot nozzle)

Both variants share the same 5.5 kV AC ionization technology — the difference is the airflow delivery method and integration geometry.

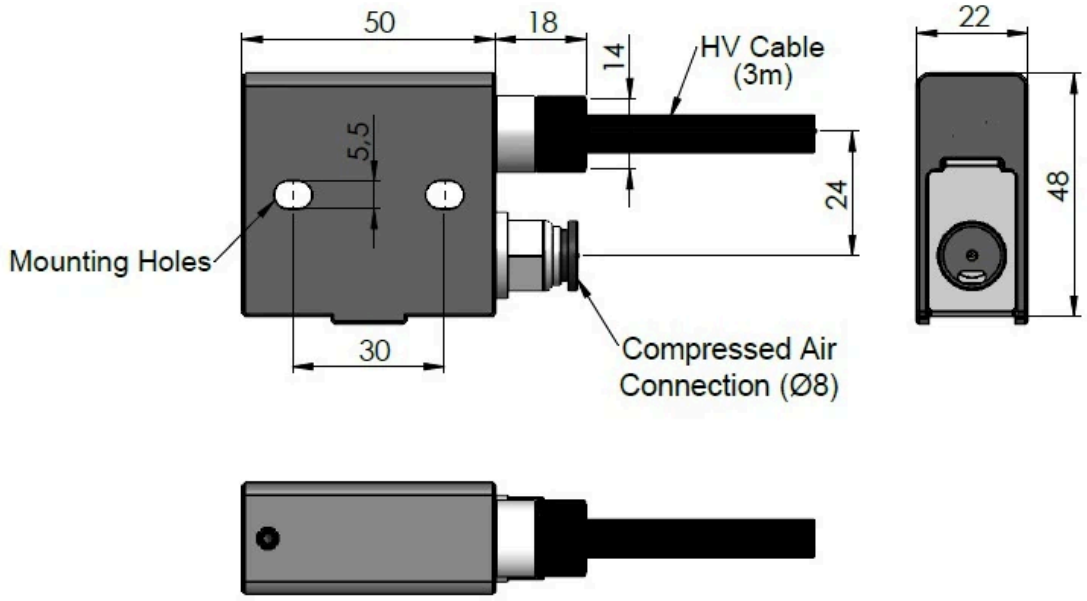
	SE-ACIN-55-NN (no nozzle)	SE-ACIN-55-SN (spot nozzle)
Product code	SE-ACIN-55-NN-C3	SE-ACIN-55-SN-C3
Nozzle	No nozzle — adjustable-length emitter needle	Fixed point / spot nozzle
Ionization range	Depends on application & needle length	Up to 300 mm *
Air consumption	Depends on application	320 l/min at 6 bar
Weight	315 g	364 g
Emitter pin	Replaceable — adjustable for deep cavities	Fixed — optimised for spot cleaning
Integration type	OEM / custom build — no fixed nozzle geometry	Defined spot area — fixed outlet geometry
Best for	Machine builders, custom cavities, OEM equipment	Spot cleaning at a defined point, up to 300 mm

* Static charge reduced to below ±35 V, tested at 300 mm with 5 bar air pressure.

Dimensional drawing



Dimensional drawing of the SE-ACIN-55-SN spot nozzle variant: body 50 × 48 × 22 mm, nozzle 37 mm, mounting holes 30 mm apart



Dimensional drawing of the SE-ACIN-55-NN no-nozzle variant: body 50 × 48 × 22 mm, mounting holes 30 mm apart

Complete system — what you need

SE-ACIN-55-NN-C3	No-nozzle variant with adjustable emitter needle — 3 m cable (C5 / C12 also available)
SE-ACIN-55-SN-C3	Spot nozzle variant with fixed point nozzle — 3 m cable (C5 / C12 also available)
SE-PAC-55-2-C power unit	2-output AC high-voltage power unit — required to operate the SE-ACIN-55
SE-PAC-55-4-C power unit	4-output AC high-voltage power unit — powers up to 4 SE-ACIN-55 units
Compressed air supply	Dry, filtered compressed air — ⌀ 8 mm hose, 6 bar
Maintenance kit	FÖGE Antistatic Maintenance Kit — replacement emitter pins and cleaning tools