SE-BLC-F-75-C Compact Antistatic Blower – Pulsed DC

Maintenance-free pulsed DC ionizing blower — no compressed air, no high-voltage power unit, automatic pin cleaning



KEY DATA

Operating voltage
24 V DC (21 – 28 V) via M12 connector · 0.4 A · max. 9 W

Ionization range
Up to 500 mm

Decay time
1 kV → 100 V in < 7 s at 500 mm

Noise level
< 60 dB(A) at 30 cm (typical: 38 dB)

Overview

The FÖGE SE-BLC-F-75-C is a compact, high-performance pulsed DC antistatic blower designed to eliminate static electricity at workstations, bench-top positions and light production line installations — without requiring compressed air or an external high-voltage power unit. Operating at 24 V DC, it connects directly to the optional SE-PSU-24-C-M12 power supply adapter, making installation straightforward wherever a standard 220 V AC outlet is available. An adjustable fan delivers a broad flow of ionized air across the target area up to 500 mm away, neutralising static charges on plastic components, PCBs, optical lenses, headlight covers and other non-conductive parts.

Key features

- Integrated automatic pin cleaning brush — maintains full ionization performance without manual intervention
- Pulsed DC ionization — balanced positive and negative ion output for fast static elimination
- 24 V DC powered — no external HV power unit required; connects to the SE-PSU-24-C-M12 adapter (sold separately)
- No compressed air needed — built-in adjustable fan delivers ionized airflow across the target area
- Ionization range up to 500 mm
- Optional replaceable foam filter (10 PPI) — prevents fan and ionizing system contamination
- Low noise operation — 38 dB typical; < 60 dB at 30 cm
- Adjustable fan speed — front panel buttons for step-by-step airflow control
- Tungsten emitter pins — extreme service life and consistent ion output
- Built-in display — fan speed level and ionization balance; status indicators for power and fault
- Adjustable 2-way mounting bracket — installation at custom angles
- M12 5-pin connector — reliable industrial connection; cable ordered separately

Technical specifications

Product code	SE-BLC-F-75-C
Ionization type	Pulsed DC — shockless
Pin current (safety)	< 250 µA
Operating voltage	24 V DC (21 – 28 V) via M12 connector · 0.4 A · max. 9 W
Power supply (optional)	SE-PSU-24-C-M12 (220 V AC to 24 V DC) · not included

Connector	M12, 5-pin (cable not included)
Fan speed control	Front panel buttons — step-adjustable fan speed
Fan type	Adjustable, double ball bearing — long lifetime, lightweight
Pin cleaning	Integrated automatic cleaning brush — maintenance-free
Filter	Replaceable foam filter, 10 PPI (optional) · protects fan and ionizing system
Ionization range	Up to 500 mm *
Decay time	1 kV → 100 V in < 7 s at 500 mm
LED indicators	Power · ionization · fault
Noise level	< 60 dB(A) at 30 cm (typical: 38 dB)
Emitter pin material	Tungsten — extremely long lifetime
Polarity	Alternating pulsed DC (balanced ion output)
Mounting	Adjustable 2-way mounting bracket
Operating temperature	0 – 50 °C
Max. humidity	70 % rH
Housing	Industrial-grade, impact-resistant
EMC compliance	2014/30/EU — EMC Directive
Electrical safety	2014/35/EU — Low Voltage Directive

* Ionization range measured under standard conditions (20 °C, 50 % rH) with fan at maximum speed. Effective range may vary with ambient temperature, humidity and fan speed setting.

Fan blower vs compressed air ionizer — when to choose each

	SE-BLC-F-75-C (fan blower)	Compressed air ionizer
Air source	Built-in adjustable fan — no infrastructure needed	Requires compressed air line (4 – 8 bar, dry, filtered)
Installation	24 V DC socket — place anywhere	Requires compressed air routing to the workstation
Ionization range	Up to 500 mm	Up to 300 mm+ depending on air pressure
Airflow force	Gentle fan airflow — suits delicate components	High-velocity air blast — dislodges heavier particles
Noise level	38 dB typical	73 – 83 dB typical
Best for	Workstations, bench-top positions, cleanrooms, electronics, optics, light plastics	Removal of heavy dust from 3D-shaped parts before coating or assembly
Pin maintenance	Automatic brush — maintenance-free	Manual pin cleaning at intervals

Electrical connection — M12 pin assignment

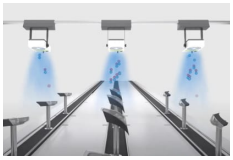
Pin	Function
1	+24 V DC supply
2	Fault output
3	GND
4	Remote control

Use a 4-pin M12 cable. The device connector has 5 pins; the centre pin is reserved for factory programming and is not used by the 4-pin cable.

Complete system — what you need

SE-BLC-F-75-C blower	Ionizing blower unit — integrated fan, auto pin-cleaning brush, front panel buttons, display, mounting bracket
SE-PSU-24-C-M12 power supply	220 V AC to 24 V DC power supply adapter — required to power the blower · sold separately
M12 4-pin cable	Industrial M12 connection cable — specify length when ordering · sold separately
Foam filter (optional)	Replaceable 10 PPI foam filter — protects fan and ionizing system in dusty environments
Maintenance kit (optional)	FÖGE Antistatic Maintenance Kit — cleaning tools and spare tungsten emitter pins

Application examples



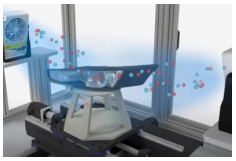
Automotive Headlight Electronics Assembly & Handling

Ensuring the functionality and reliability of automotive headlight assemblies by controlling static electricity throughout the component handling and assembly stages in a manufacturing environment.



Manual Cleaning and Assembly Station (Automotive Headlight Housing)

Manual precision cleaning and static neutralization of complex 3D molded plastic parts immediately prior to final sealing or sensitive assembly.



Automated Headlight Assembly / Coating Preparation Station

Neutralizing static charge and preventing dust attraction on 3D molded automotive lighting components (lenses and housings) immediately prior to protective coating application or final assembly.

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