

HAUG Ionization - for the elimination of electrostatic charges



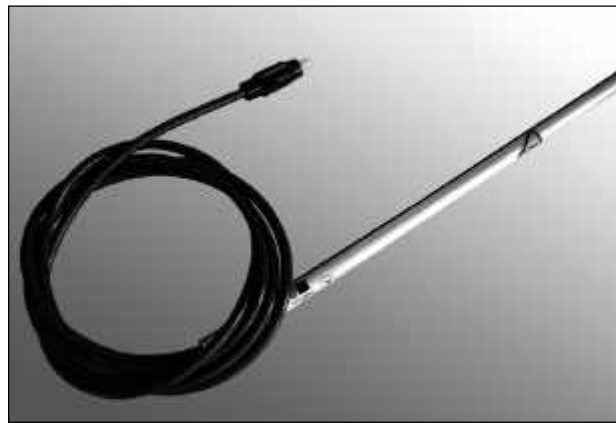
HAUG Ionization systems

are intended to eliminate electrostatic charges. On different surfaces interfering electrostatic charges may form, disturbing production processes and bonding dust particles and other quality-reducing substances to the materials. HAUG has been engaging in research, development and production for more than 45 years to solve these problems.

EI VC

The HAUG ionizing bar **EI VC** reliably eliminates electrostatic charges in clean rooms. It can be used both directly for the discharge of objects or for enriching laminar air flows with positive and negative ions.

The ionizing bar **EI VC** is characterized by all quality features of HAUG ionizing bars, including the patented contact system X-2000 which can be easily dismantled (ill. 2 and 3), the shielded and EMV compatible high-voltage cable, the absolute safety to touch and the special stainless steel electrodes.

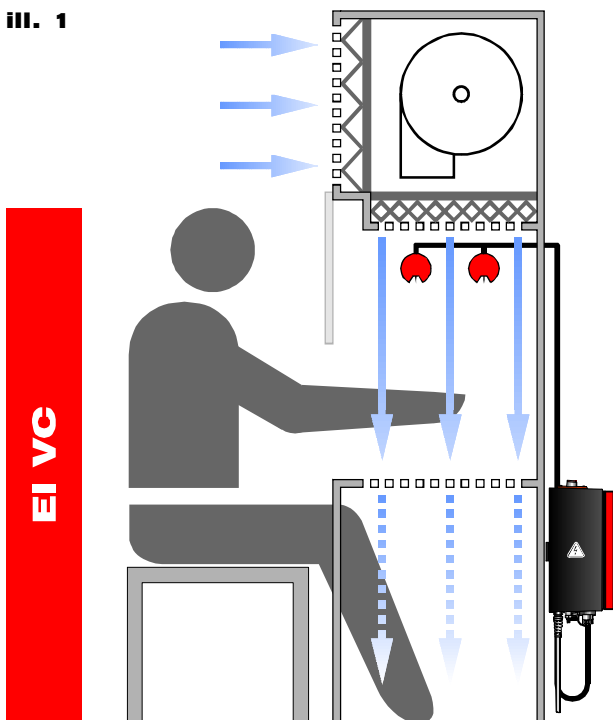


EI VC

Special properties and benefits

The high-performance ionizing bars **EI VC** enrich the laminar air flow with positive and negative ions. Existing or generated charges are thus eliminated and the build-up of charges is prevented. As a result of the minimum particle emission values, the **EI VC** is suitable for use in rooms with "ISO Class 4" in accordance with DIN EN ISO 14644-1. This corresponds to the withdrawn US Federal Standard 209E "Class 10". Its light, aluminum-color profile ensures good visual integration in clean rooms. The ionizing bar **EI VC** has been qualified by the Fraunhofer Institute for Manufacturing Engineering and Automation IPA in Stuttgart (Germany).

ill. 1



"Enrichment of vertical air flow with positive and negative ions above a clean room workspace."

Applications

- Clean production areas in the pharmaceutical, cosmetics and food industries
- Optical industry
- Packaging machines
- Automation technology
- Horizontal and vertical laminar flow systems
- Clean production areas in plastics engineering

ill.2

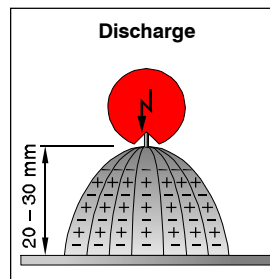
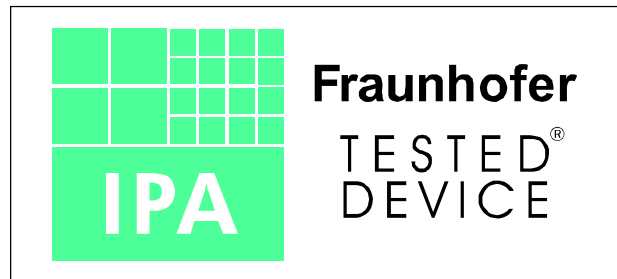


ill.3



Plug-and-socket system X-2000

ill.4



ill.5

"Optimum effective distance for direct discharge with no air-flow support."

HAUG Ionization systems

consist of the following components:

- a power pack with integrated high-voltage transformer and
- one or several connected ionizing units, such as the ionizing bar **EI VC**, which are supplied with a voltage of 7–8 kV_r by the power pack.

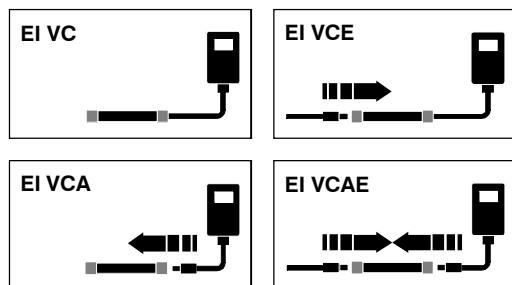
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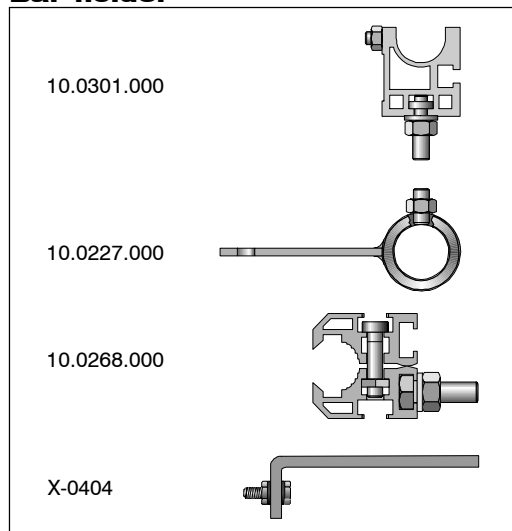
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Bar holder



EI VC

Technical data EI VC

Types: **EI VC** Order-No.: 03.8410.000
inseparable HV-cable, attached permanently to the bar
HV-cable Order-No.: 06.0210.000

EI VCA Order-No.: 03.8411.000
detachable HV-cable
VK Norm 21 Order-No.: 05.8517.000
VK Norm 22 Order-No.: 02.8522.000
VK Norm 23 Order-No.: 05.8519.000
VK Norm 24 Order-No.: 05.8518.000

EI VCE Order-No.: 03.8412.000
inseparable HV-cable to power pack, detachable HV-cable for series connection of ionizing units

EI VCAE Order-No.: 03.8413.000
detachable HV-cable to power pack, detachable HV-cable for series connection of ionizing units

Diameter: 20 mm
Length: 150 mm – 2500 mm
Operating temperature: +5 °C to +45 °C
Storage/transport temperature: -15 °C to +60 °C
Optimum effective distance: 20 – 30 mm
Effective length: bar length - 120 mm
Smallest bending radius (cable): R 50

Subject to technical changes!

Calculation of connectable length(s)

The ionizing bar **EI VC** is a high-performance ionizing bar which exerts a load on the power pack of 3x the capacity (3x length of high-voltage cable). The ionizing bar length must therefore be multiplied by 3 and then added to the length of the high-voltage cable.

Example of a system

consisting of 2 ionizing bars **EI VC**, each 1.5 m long with 2 m high-voltage cable

Calculation

$[2 \times (3 \times 1.5 \text{ m})] + (2 \times 2 \text{ m}) = 13 \text{ m}$ total length of the HV-cable

Any one of the power packs **EN 8**, **EN 8 LC**, **Multistat**, **EN 70** or **EN 70 LC** can therefore be selected.

Accessories

Bar holder, block half open Order-No.: 10.0301.000
Bar holder, closed Order-No.: 10.0227.000
Clamping holder, 2 parts Order-No.: 10.0268.000
Bracket, large Order-No.: X-0404 a.o.

Suitable power packs

Connectable lengths (ionizing unit incl. high-voltage cable):

EN SL max. 5 m
EN SL LC / EN SL RLC max. 10 m
EN 8 / EN 8 LC max. 18 m
Multistat max. 18 m
EN 70 / EN 70 LC max. 2 x 18 m

