HAUG Ionization for the elimination of electrostatic charges



HAUG Ionization systems

HAUG develops and produces ionization systems for the removal and generation of electrostatic charges. A system for the removal of interfering electrostatic charges consists of two components: a power pack and an ionizing bar.

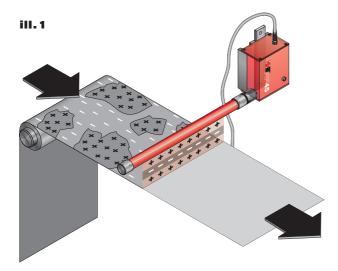
Power pack NF 45 and ionizing bar NFA

The combination of power pack NF 45 and ionizing bar NFA was developed specifically for use on fast running machines. The power pack NF 45 automatically adjusts the discharging frequency (400-800 Hz) to the connected bar length. The higher frequency of the power pack NF 45 ensures a high decoupled current and therefore fast, even discharge of the material. Still, the ionizing bar NFA is absolutely safe to touch.

The compact aluminum housing allows the NF 45 to be used in locations where space is at a premium. The ionizing bar NFA which is adapted to the NF 45 can be connected directly or using a connection cable. Only the ionizing bar NFA can be connected to any one NF 45.

Power pack NF 45 RLC

The functions of power pack NF 45 RLC are identical of those of power pack NF 45, but the NF 45 RLC is characterized by a different arrangement of the external ports. In addition to the signaling socket, an error message can be output. Following an overload (switch-off of high voltage), the NF 45 RLC automatically performs a readjustment.





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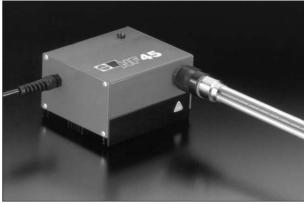
Contact assignment and logic diagram

High-voltage OK	Contacts closed
no	1 and 2
yes	2 and 3

Special properties and benefits

Due to its low weight, the power pack NF 45 / NF 45 RLC can be attached using the retaining plate included, e.g. on swivel or robot arms.

The ionizing bar **NFA** is connected to the unit using the proven, patented, gas-tight coaxial high-voltage connector X-2000 NFA. The ionizing bar can be assembled without the need for tools. The operating status of the power pack is indicated by an LED (green = has been adjusted to the maximum power / orange = bar is adjusting itself to optimum power).



NF 45

Function

The power pack NF 45 / NF 45 RLC is supplied with a low voltage of 24 V_{AC} / 30 V_{DC} . Mostly this required voltage can be received directly of the machine.

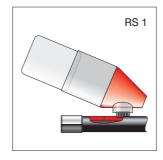
A series transformer with connection facility for up to five power packs NF 45 / NF 45 RLC is available as accessory for all customary mains voltages (230 V_{AC} / 115 V_{AC}).

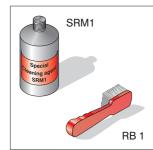


NF 45 RLC

Cleaning and maintenance

Regular use of HAUG special cleaning agent SRM 1 and cleaning kit RS 1 will ensure consistently high efficiency of the ionizing bar NFA.





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Accessories

Related ionizing bar NFA: Order no.: 03.8042.000

Series transformer VG NF:

115 V Order no.: 12.0011.000 230 V Order no.: 12.0010.000

Connection cable: axial Order no.: 02.8563.xxx

Bar holder "Klick-Zack" Order no.: 10.0004.000

Signalling cable K3, shielded (NF 45 RLC)

5 m, incl. plug Order-No.: 06.8960.000 10 m, incl. plug Order-No.: 06.8960.001 20 m, incl. plug Order-No.: 06.8960.002

Plug Order-No.: X-6099

Technical data NF 45 / NF 45 RLC

Types: NF 45 Order no.: 01.9700.001 NF 45 RLC Order no.: 01.9701.000

Protection type: IP 54
Protection class: I

Supply voltage: $24 V_{AC} \pm 10\% (50 - 60 Hz) /$

 $30 V_{DC} \pm 10\%$

Power input: 20 VA

Output voltage: approx. 5.5 kV at 400 – 800 Hz

Short-circuit output current: $I_k < 1.5 \text{ mA}$

HV-terminals: 1

Connectable length NF 45: 0.5 - 2.5 m (NFA incl. HV-cable) Connectable length NF 45 RLC: 0 - 2.5 m (NFA incl. HV-cable)

Max. bar length NF 45 RLC: 2 m

Operating temperature: +5 °C to +45 °C Storage-/transport temperature: -15 °C to +60 °C

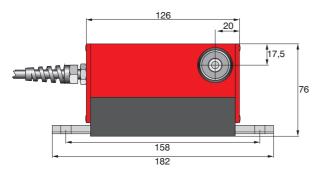
Weight: 1.5 kg
Mains cable NF 45: 10 m

Mains cable NF 45 RLC: 2.6 m (highly flexible),

fixed to the device

Subject to technical changes!

NF 45



NF 45 RLC

