

# 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. All fields of industry are affected where materials with poor electrical conductivity are processed.

## Units for areas with potentially explosive atmospheres

For many years, HAUG has been a competent manufacturer of ionizing units approved for equipment in areas with potentially explosive atmospheres. These are intended to eliminate unwanted electrostatic charges in areas where hazardous gases may form, such as paint plants or printing machines.



Ionizing bar EI Ex T

The design of the ionizing bar **EI Ex T** complies with the European ATEX directives. In combination with power pack **EN 92 Ex** or **Multistat Ex**, it is suitable for use in manufacturing locations with potentially explosive atmospheres resulting from gases of explosion group IIA, temperature classes T4 to T6.

Power pack EN 92 Ex



Power pack **EN 92 Ex** is suitable for direct use in areas with potentially explosive atmospheres (zones 1 or 2). The units comply with the European ATEX directives. All high-voltage components are accommodated in a flameproof housing.

The power pack **EN 92 Ex** is equipped with two high-voltage ports for the connection of the ionizing units. No long high-voltage cables are required, as the power pack can be installed in the immediate vicinity of the ionizing unit. The power pack **EN 92 Ex** has been approved for operating the ionizing bar **EI Ex T** or ring ionizers **RI Ex O/M/V**.

## Industries

- Graphical industry:  
Screen, tampon and offset printing machines etc.
- Paint shops:  
automotive paint applications, painting of plastic parts, etc.

## HAUG ionization systems

always consist of the following components:

- a power pack transforming the rated voltage required for the ionizing unit of 7 – 8 kV<sub>r</sub> from the mains voltage and supplying it to the ionizing unit
- various ionizing units for connection to the power pack.



Multistat Ex

The **Multistat Ex** is a modern high-voltage power pack with fully electronic watchdog function. It is fitted with an automatic fault alarm, an analog display for high-voltage monitoring and an output jack for the connection of peripheral alarm units. This power pack must always be installed outside the potentially explosive atmosphere. It is approved for the operation of ionizing bar **EI Ex T** and ring ionizers **RI Ex O/M/V**.

Ring ionizers  
RI Ex O/M/V



The ring ionizers **RI Ex O/M/V** are supplied as hand-held units (**RI Ex M/V**) with compressed air gun, or for fixed installation (**RI Ex O**).

Due to their compressed-air assistance, these units are ideally suited to blowing off workpiece surfaces using ionized air. At the same time, electrostatic charges on non-conductive materials can be eliminated in one process. In combination with power pack **EN 92 Ex** or **Multistat Ex**, the units are suitable for use in manufacturing locations with potentially explosive atmospheres resulting from gases of explosion group IIA, temperature classes T4 to T6.

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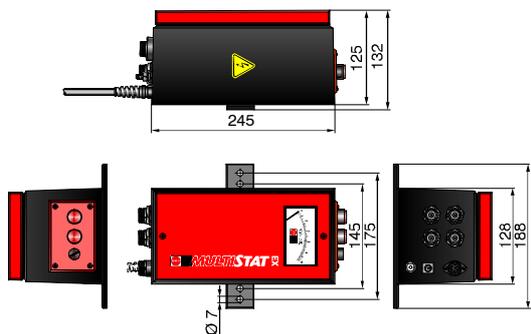
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Ex Line - Ex zone




**Power pack  
Multistat Ex**

### Ionizing bar EI Ex T

for connection to Multistat Ex  
for connection to EN 92 Ex

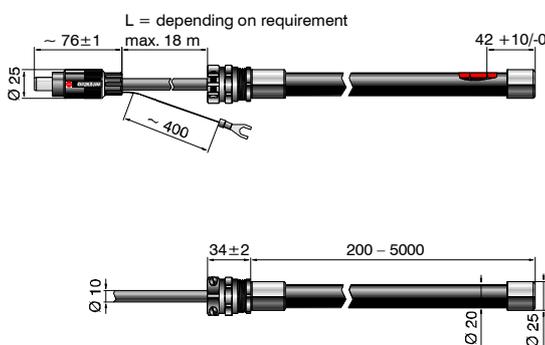
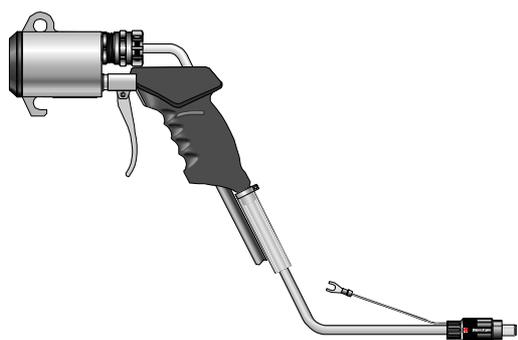
Order-No.: 03.8051.000

Order-No.: 03.8251.000

### Special accessories

By installing the ionizing bar in a suitable body, a compressed-air assisted ionization system can be created. This air gate is particularly suitable for blowing-off processes on plate and web material or where installation is difficult, e.g. in the case of distances further away from the material.

Four basic body types LS Ex, KL Ex, KM Ex and AK Ex are available. Air consumption figures on request.


**Ionizing bar  
EI Ex T**

**Ring ionizers  
RI Ex O/M/V**

### Power pack EN 92 Ex

Nominal input voltage: 115 V<sub>~</sub> / 50 – 60 Hz  
Order-No.: 01.7746.200

230 V<sub>~</sub> / 50 – 60 Hz  
Order-No.: 01.7747.200

Nominal output voltage: approx. 7 – 8 kV<sub>~</sub>

Power consumption: approx. 40 VA

Output short-circuit current: ≤ 3 mA

Ambient temperature: +5°C to +40°C

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

Max. connected load: 18 m  
(HT cable incl. ionizing unit)



### Multistat Ex

Nominal input voltage: 115 V<sub>~</sub> / 50 – 60 Hz  
Order-No.: 01.7759.030

230 V<sub>~</sub> / 50 – 60 Hz  
Order-No.: 01.7760.030

Nominal output voltage: approx. 7 – 8 kV<sub>~</sub>

Power consumption: approx. 40 VA

Output short-circuit current: ≤ 5 mA

Ambient temperature: +5°C to +40°C

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

max. connected load: 18 m  
(HT cable incl. ionizing unit)

### Special accessories

Round plug Order-No.: X-0616

Angled plug Order-No.: X-5718

Signaling cable K1 5 m Order-No.: 06.8941.000

10 m Order-No.: 06.9841.001

20 m Order-No.: 06.9841.002

### Ring ionizers RI Ex O/M/V

RI Ex O for connection to Multistat Ex Order-No.: 04.7190.000  
for connection to EN 92 Ex Order-No.: 04.7290.000

RI Ex M for connection to Multistat Ex Order-No.: 04.7191.000  
for connection to EN 92 Ex Order-No.: 04.7291.000

RI Ex V for connection to Multistat Ex Order-No.: 04.7192.000  
for connection to EN 92 Ex Order-No.: 04.7292.000

Air consumption figures are dependent on the pressure and available on request.

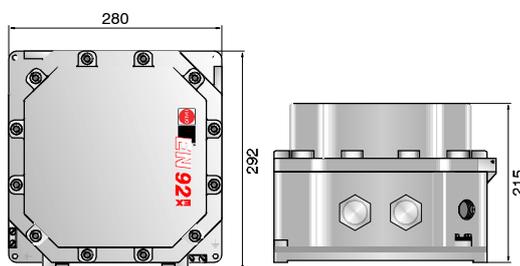
### Special accessories

Standard holder for RI Ex O Order-No.: 10.7206.000

Filter control valve Order-No.: 11.7210.001  
with pressure gauge, incl. oil and water separator

Air hose Order-No.: X-6615  
fabric reinforced, Ø 12 x 6 mm  
(outside/inside), silicone free

Protective tube for HT cable Order-No.: X-6597


**Power pack  
EN 92 Ex**