

**HAUG Ionisation  
– to eliminate  
electrostatic charges**



Illustration 1: Power pack EN 9 U-control

### **EN 9 U-control**

The **EN 9 U-control** power supply unit is used exclusively to supply voltage to needle ionizers and discharge mandrels. Needle ionizers and discharge mandrels are used for electrostatic discharge of the interior of filling vessels. This discharge positively supports subsequent cleaning by blowing out with compressed air.

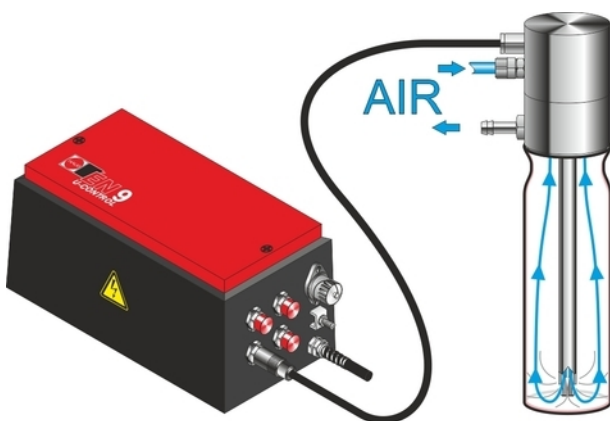


Illustration 2: NI needle ionizer on EN 9 U-control discharging power pack

### **Principle of operation**

The mains voltage applied to the **EN 9 U-control** is transformed by a high-voltage transformer to the optimum AC voltage of 4-6 kV<sub>AC</sub> for needle ionizers and discharge mandrels. The power supply unit has a monitor output. This allows continuous process monitoring to be implemented, as required in the pharmaceutical industry, for example.

The **EN 9 U-control** power supply unit can be clocked. The integrated overload monitoring protects the device by switching it off in the event of a fault.

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### Technical data <sup>\*)</sup>

Type:	EN 9 U-control	
Order no.:	230 V	01.7866.000
	115 V	01.7867.000
Dimensions: (L x W x H)	245 x 128 x 118 mm	
Type of protection:	IP 54	
Protection class:	I	
Connection cable: (fixedly connected to device)	2.6 m	
Supply voltage:	230/115 V <sub>AC</sub> • 50 – 60 Hz	
Power consumption approx.:	80 VA	
Rated output voltage:	4 — 6 kV <sub>AC</sub>	
Load rating of signalling contacts:	24 V <sub>AC</sub> /35 V <sub>DC</sub> , 50 mA max.	
Pulse frequency:	1 Hz	
Output short-circuit current:	≤ 5 mA	
Signal socket:	K1	
HS connections:	4	
Max. connection length: (incl. HS cable)	2 — 15 m	
Operating temperature:	+5 — +45 °C	
Storage/transport temperature:	-15 — +60 °C	

<sup>\*)</sup> Technical changes reserved!

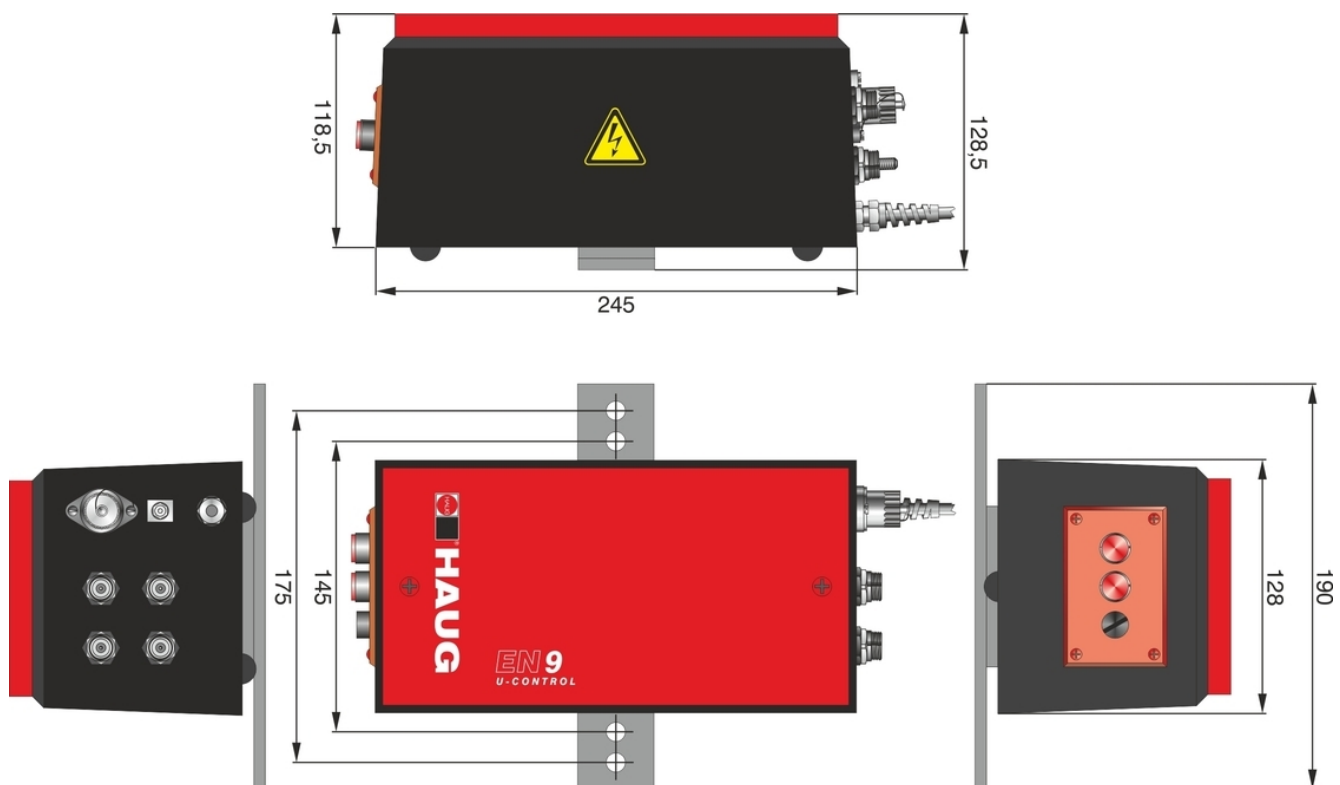


Illustration 3: EN 9 U-control, engineering drawing

