

User Manual

Manual number:
LMI-42-01/06/10/ENG

Antistatic Ionizer

DJ-02

DJ-03



DJ-03



DJ-02



**MANUFACTURER
OF ELECTRONIC WEIGHING INSTRUMENTS**

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1. GENERAL DESCRIPTION

Antistatic ionizer is used to remove overflow of plus ions mainly, minus ions from the load as well and elements of balance and environment. Electric charges of air are neutralized what give quasi-balance of plus and minus ions.

Unbalance of plus and minus ions in the air can cause unwanted electric influences (attraction or repulsion) of elements which are in small distances to each other.

It is usual for non-conducting materials (plastic, glass). Some of the elements of balance are made of plastic and glass. This problem can affect the balances. Usually this problem appears as multiply repeatability error or as multiply error of indications.

2. TECHNICAL DATA

Distance sample – ions source	about 5 ÷ 50cm
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Source of ions	Stainless steel
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Capacity	3 kg
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Conditions:	
Temp of environment	0 ÷ 40 °C,
Moisture	10 ÷ 80%

Power supply	110/230 V AC 50 ÷ 60 Hz 2 W
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3. BASIC SAFETY PRECAUTIONS



WARNING



Ionizer can be used as accessories for balances made by Radwag. It is not permitted to use ionizer for other mechanisms.



Do not use ionizer in explosive hazard environment. The ionizer is not adapter for explosive hazard environment.



The ionizer cannot be used in environment with:

- High humidity of air (acceptable $10 \div 80 \%$),
- Caustic vapours,
- High temperature (acceptable $0 \div 40 \text{ }^\circ\text{C}$),
- Vibrations and shocks.

There cannot be any oil or water in place of ionizer using. The room where ionizer is used should be ventilated properly.

If ionizer was kept in lower temperature than temperature of place of its working the ionizer should be left for 2 hours until it reaches temperature stabilization before it is used. In the other case moisture condensation on ionizer can occur and as a result electric shock.



Nie dotykać!
Urządzenie elektryczne

Do not touch ions sources in case of danger of electric shock (during the work) or danger of body damage (elements are very sharp).



If any abnormality occurs during ionizer usage (smoke, smell of overheating or burn), water or any foreign matter gets into ionizer inside the ionizer should be switched off power supply immediately.



Use the ionizer very carefully because of high voltage.

Nie dotykać!
Urządzenie elektryczne



It is not allowed to dismantle, modify or use the ionizer in other purpose that is appropriate for.

NIE OTWIERAĆ



The ionizer can be wired only via original supply cable which is ionizer accessories. Rated voltage (see data plate) should be the same as power voltage.
The ionizer can be wired to the socket with bolt only.



If the ionizer is not used it should be switched off power supply.

Any repair should be made by Radwag service only.



ATTENTION



Nie dotykać!
Urządzenie elektryczne

Damaged ionizer cannot be connected to power supply. It can cause electric shock or fire.



It is not allowed to use ionizer in vehicles or outside. If any damage occurs then no repair under guarantee are made.

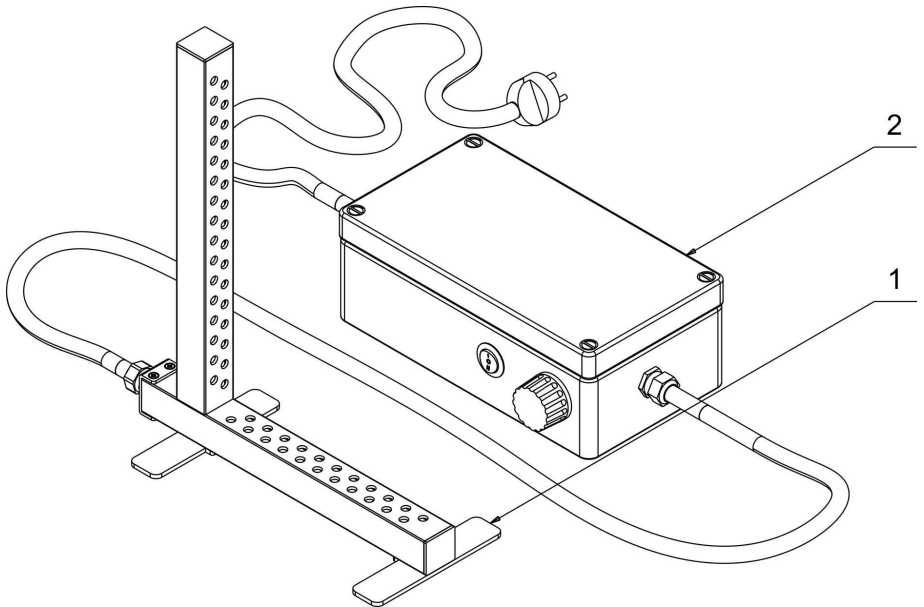


Pay attention that the ionizer become heated during normal work.

4. CONSTRUCTION OF IONIZER DJ-02 | DJ-03

There are two modules in ionizer construction:(see figure below):

- 1 – high voltage generator,
- 2 – ionizing frame.



5. UNPACKING

5.1. Unpacking

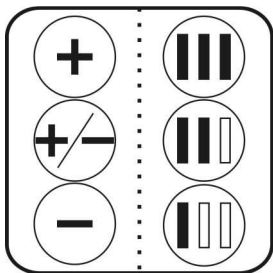
Unpack the ionizer and remove protective foams. Take the ionizer out off the box and put it in place of usage very carefully.

6. STARTING

The ionizer should be connected to power supply which is signal ON diode on high voltage generator.

6.1. Work modes

The ionizer can work with minus, plus polarization or with minus and plus polarization alternately. In each of work modes intensity of ionization can be changed. Work modes and intensity of ionization is presented on figure below:



- forward bias



- convertible polarization



- minus polarization



- max intensity of ionization



- medium intensity of ionization



- min intensity of ionization

7. MAINTENANCE, SERVICE, UTILIZATION

Maintenance, cleaning, service and utilization should be made no earlier than 5 minutes after switching the ionizer off power supply.

7.1. Maintenance

Power adaptor cover and frame can be wiped with cloth and gentle alcohol detergent.

7.2. Service

Only service Radwag are allowed to open, repair and modificate construction of ionizer. It is recommended to make technical check-up after 500hours of work and to change ions sources after 10 000 hours of work.

7.3. Utilization

Utilization of ionizer and package must be processed in accordance with legal regulations valid in a country where the ionizer is used.

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8. CONFORMITY CERTIFICATE



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Jonizator antystatyczny DJ - 02 ; DJ - 03

Deklarujemy z pełną odpowiedzialnością, że opisany powyżej wyrób oznakowany znakiem CE jest zgodny z wymaganiami zasadniczymi dyrektyw:

Dyrektywa 2004/108/EC
Normy zharmonizowane:
PN-EN 61326-1:2006

Dyrektywa 2006/95/EC
Normy zharmonizowane:
PN-EN 61010-1:2004

Ponadto wyrób spełnia wymagania zawarte w:

ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ
z dnia 29 listopada 2002 r. w sprawie najwyższych dopuszczalnych sześień i natężeń czynników szkodliwych dla zdrowia w środowisku pracy.

ROZPORZĄDZENIE MINISTRA GOSPODARKI I PRACY
z dnia 10 października 2005 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych sześień i natężeń czynników szkodliwych dla zdrowia w środowisku pracy.

Z upoważnienia

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Radom 04.12.2009

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Miejsce i data wydania

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CERTIFICATE NO 71 100 C206