EXCELITAS RF Photoionisation Lamp Instructions

Contents

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Specifications

- **Product Name:** RF-Photoionisation Lamp
- **Application Areas:** Photoionisation detectors, gas chromatography, mass spectrometry, ion mobility spectrometry devices
- **Components:** Glass frit, Lead (Pb), Mercury (Hg) and compounds, Cadmium (Cd), Chromium VI compounds (Cr(VI)), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE)

Product Usage Instructions

- **Transport and Handling:**
  Handle the RF photoionization lamp with care during transport to avoid any damage. Store in a dry and cool place away from direct sunlight.
- **Installation**:
  When installing the lamp, ensure it is securely fitted to the designated device. Follow the device's user manual for specific installation instructions.
- **Disposal:**
  Dispose of the lamp according to local regulations for electronic waste disposal. Do not dispose of it in regular household waste.
- **Safety Precautions:**
  Follow all safety instructions provided in the user manual. Failure to adhere to safety guidelines may pose risks to individuals, the environment, and the product.

WARNING: Ultraviolet radiation – This product is classified as Risk Group 1, low risk according to EN 62471. Avoid direct long exposure to UV radiation.

Application area
The RF photoionization lamp is a gas discharge lamp and has been designed to be used within photoionization detectors, gas chromatography, mass spectrometry, and ion mobility spectrometry devices. This product is not in the scope of the current version of EU Regulation 2019/2020. It must not be used for general lighting. Any use in other than the intended applications is not admissible.

Safety information
Follow the safety instructions. Non-observance of the safety notes may cause hazards to persons, the environment, and the product.

WARNING ultraviolet radiation
This product belongs to Risk Group 1. Low risk, under EN 62471 (Photobiological safety of lamps and lamp systems). Safe for most applications apart from direct long exposure and very close proximity (<1m) viewing. Minimize exposure to eyes and skin. Use appropriate shielding. In normal applications, the lamp is inside an instrument and cannot be viewed directly. Even if the lamp were to be somehow run in the open the optical risks are extremely low. See note above.

Transport and handling

- Transport the product in its original packing to the place of installation. The cleanliness of the PID lamp crystal window is extremely important to ensure high photon output and good detector sensitivity. Finger grease on the crystal window leads to primary VUV line output losses. Avoid touching the lamp with bare hands. Wear gloves.

- Before installation, check the RF photoionization lamp for mechanical damage. Never use damaged RF. photoionisation lamps.

Installation

- De-energize the unit before commencing work on it with the relevant safety precautions for working with electrical equipment. Install or replace the lamp in the instrument according to the instruction manual of the instrument in which the lamp is used. Allow the lamp to cool sufficiently to prevent burns from hot surfaces in the case of heated instrumentation. The lamp itself does not generate much heat as the input power is normally less than 0.5 W, so in nonheated equipment, there are no risks of heat burns. Only use the tools described in the maintenance manual to replace the lamp.
- The lamp is an RF-driven device which means that there are no direct electrical contacts or wires on the lamp, it is a gas filled glass bulb. The equipment in which the lamp is used contains the RF coupling electrodes and drive circuit.

Ignition
Ignition time for RF photoionization lamps can be up to 30 seconds.

Disposal

- **RoHS**: Photoionisation lamps are in scope of the Directive 2011/65/EU (RoHS II, Category 5 Lighting equipment) as amended and are RoHS II compliant.
- **China RoHS:** Photoionisation lamps are subject to the administration rules of the People's Republic of China, Directive No. 32 of 6 January 2016. According to standard SJ/T 11364-2014, photoionization lamps must be marked with the EFUP sign shown here. The table below shows the names of the hazardous substances and where they are located in the product in concentrations above the limits. The lamps should be recycledbyh the legal requirements regarding waste electrical and electronic equipment.
- **REACH**: Note under Article 33 REACH 1907/2006: the glass frit contains more than 0,1% lead (CAS No. 7439-92-1).
- **WEEE**: RF photoionization lamps are in the scope of Directive 2012/19/EU WEEE and can be classified according to Annex 3(3) and 4(3) (Lamps: Gas Discharge Lamps). RF photoionization lamps may not be disposed of in normal commercial or industrial waste. EU users must dispose of the lamps at a communal recycling center for electrical and electronic waste. Other users should recycle, otherwise dispose of the lamps according to the relevant legal requirements.

Conformity
This product complies with the EU Low Voltage Directive and the EU RoHS directive. A complete Declaration of Conformity will be provided on request.

Complaints
In the event of a complaint, return the RF photoionization lamp in its original packaging to the dealer or the address provided.

Component Name	Lead (Pb)	Mercury (Hg) and Compounds	Cadmium (Cd)	Chromium VI Compounds (Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ether (PBDE)
Glas frit	X	O	O	O	O	O

In this table:

- “X” indicates the presence of the hazardous substance.
- “O” indicates the absence of the hazardous substance.

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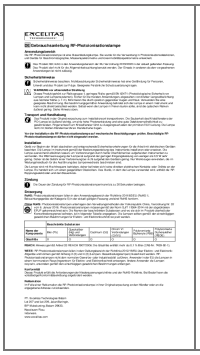
FAQ

Q: Can the RF photoionization lamp be used for general lighting?
A: No, this product is designed specifically for use in photoionization detectors, gas chromatography, mass spectrometry, and ion mobility spectrometry devices. It should not be used for general lighting purposes.

Q: How should I dispose of the RF photoionization lamp?
A: Dispose of the lamp following local regulations for electronic waste disposal. Do not throw it in regular household waste bins.

Documents / Resources

	EXCELITAS RF Photoionisation Lamp [pdf] Instructions RF Photoionisation Lamp, Photoionisation Lamp, Lamp

References

- Homepage | Excelitas
- User Manual