

# UV Lamps

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## User Instructions



## Safety Information

**WARNING!** *Disregard of the safety regulations or improper operation of the UV lamp may lead to injuries and material information damage.*

This product is a special purpose lamp in the sense of ELI-regulation 244/2009 and not suitable for household room illumination.

The owner of a UV lamp must provide a procedure-specific operating manual with instructions for the operating personnel.



### **DANGER! ULTRAVIOLET RADIATION**

This product belongs to risk group 3 (high risk) per EN 62471:2009. UVC radiation is harmful to both eyes and skin.

Take appropriate safety precautions to protect yourself against direct contact with the dangerous UV radiation (wear protective clothes, mark the working area, etc.). System components made of or coated with plastic must be protected from UV radiation (e.g. with meta foil).



### **DANGER! EXPLOSION HAZARD**

The UV lamp must not be operated in an atmosphere where there is a danger of explosion, as this risks ignition though contact with the UV lamp.

## Area of Application

The UV lamp is a mercury for industrial use in process that require UV radiation in the application wavelength range between UVC and UVA.

Any use other than stated in this manual may involve unknown hazards and risks and must therefore be avoided! The technical data will be found on the data sheet of the UV lamp.

## Transport/Installation

Transport the UV lamp in its original packing to the place of installation.

Avoid touching the quartz tube with your fingers. Soil on the quartz tube leads to radiation losses. Wear linen gloves.

Before using the UV lamp, check it for mechanical damage. **Never use damaged UV lamps.**

# Operation

## Start

The UV lamp must be started with special ignitors. The cold lamp reaches its maximum performance after about 3 minutes. During operation, it is necessary to limit the current.

## Cooling

The UV lamp must be cooled. The external cooling must be adjusted so that the temperature of the pinched base does not exceed 300°C (measured to IEC 60682).

The insulated cable end has a maximum permitted operating temperature of 260°C. Allowing for ohmic loss and possible heat dissipation, depending on type and conditions of installation, the maximum permitted operating temperature may never be exceeded.

## End of Operation

After the UV lamp is switched off, it needs to cool for about 3 minutes before it is started again.

## Standby Operation

To avoid having to observe the usual cooling time, the UV lamp should be run during breaks at a reduced output. This Will allow instant re-start.

# Disposal

Because of the specification to be fulfilled by the CIV Lamp, it is incorporating mercury, which is leading to the fact, that at the end of the useful lifetime the lamp has to be treated as hazardous waste, just as energy saving or fluorescent lamps, and must be disposed in accordance with the legal requirements.



This product is in scope and fulfills the demands from the European directives 2012/19/EU.

In case of a complaint, please return the UV lamp, using its original packing, if possible, to the address indicated on this leaflet.

**Never send in broken UV lamps! Please give an information to us in such cases!**

# Maintenance

## Cleaning

Soiling and fingerprints on the quartz tube should be removed with a clean linen cloth (without finishing agents) soaked in methylated spirit.

## Lamp Replacement Procedure

Every new 400-Watt EC-Series UV light source is supplied with a new lamp. When the lamp requires replacement, the following procedure must be followed.

1. Turn the power switch off.
2. Disconnect the power supply from the electrical power source.
3. Allow the lamp to cool.

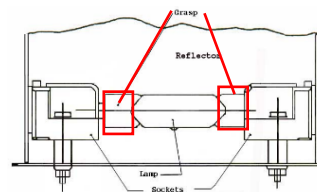
**WARNING:** *The lamp operates at temperatures exceeding 500°C. Touching the lamp before you've allowed sufficient cool down time will cause severe burns.*

**CAUTION:** *Always wear safety eye wear while replacing lamp!*

4. Hold the lamp/reflector assembly housing securely and loosen thumbscrew on the lamp/reflector assembly-housing bracket. Lift the housing off the mounting stand and place upside down on a clean work surface.
5. Remove the glass filter (on 2000-EC) by removing one retaining strap held by two (2) 8-32 x 3/8" button head screws with 3/32 hex wrench. Loosen the two (2) 8-32 x 3/8" button head screws in the remaining strap so that the filter glass can slide out.
6. Reach into the reflector and GRASP the flat area of lamp, at either end.

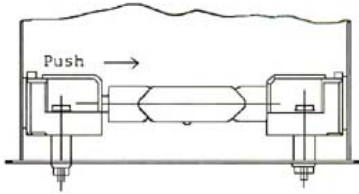
**CAUTION:** *Always use a soft, clean rag, clean paper towel, or gloves when handling the lamp. Skin oils left on the lamp will burn into the quartz, reducing output intensity. If the lamp is inadvertently touched, clean lamp thoroughly with a soft clean rag and alcohol. The lamp contains a small amount of mercury. Dispose of only according to all local, state, and federal requirements.*

**Figure 1. Grasp Flat Area**

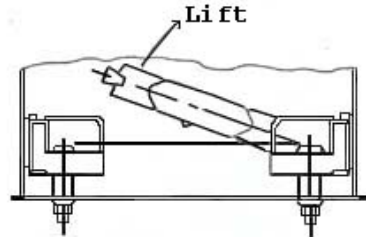


7. PUSH lightly on the lamp toward the socket on the opposite end of the lamp so that the end being grasped can be LIFTED clear of the socket as shown.

**Figure 2. Push Lightly Toward Socket**



**Figure 3. Lift Lamp**



8. Install the new lamp by repeating steps 5, 6 and 7 in reverse order.

***IMPORTANT:*** Install the lamp such that the seal dimple on the bulge of the glass is facing towards the reflector surface. Avoid touching the quartz tube with your fingers.

***NOTE:*** Lamp has no polarity.

9. Record the serial number of the unit and the hour-meter reading in the Bulb History Record.
10. Replace the lamp/reflector assembly housing on the mounting stand by engaging the mounting bracket.
11. Secure the thumbscrew when the lamp/reflector assembly housing is at the proper height.
12. Reconnect the power cord to the appropriate power source.
13. Turn the Power Switch to 'ON' position and allow at least 5 minutes for lamp to warm up before using.

**In Case of Lamp Burst:** To prevent inhaling the mercury fumes, leave the burst site immediately and ventilate the area or the room for at least 30 minutes. After the lamp and lamp house have cooled down, remove mercury using a special absorptive agent available from laboratory equipment suppliers.

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