

Safety Instructions

Usage of UVC Irradiation

1. UV Irradiation



UV low pressure lamps and amalgam UV low pressure lamps emit mainly in wavelengths range of UV-C radiation, especially at 254 nm. UV-C radiation is hazard to eyes and skin and causes skin rashes to severe burns, eye conjunctiva inflammation and corneal infections. Depending on the use and application is necessary to provide for an adequate emergency shut off switches, safety switches (eg door contact or similar). The electrical connection must be made by a qualified electrician.

Through appropriate side and rear panels as well as a housing area of the irradiation with UV-opaque material (eg MACROLON or metal plates or other) are persons to protect against direct and indirect UV radiation. Here are all the possible states of operation (installation, maintenance, normal and stand-by mode) to take into account. The personnel have to wear suitable UV-C opaque goggles (also available by uv-technik meyer gmbh) and UV-C impervious clothing.



2. Mercury / Amalgam

The UV-C treatment system is equipped with amalgam or Mercury low pressure lamps. Amalgam or Mercury low pressure lamps contain up to 100 mg Mercury. In dealing with broken lamps, the safety regulations for hand handling must be observed for Mercury, as they are for fluorescent lamps in use. When breaking lamps in the lamp housing is assumed that the interior of the lamp housing with amalgam / Mercury is contaminated. In this case, the lamp housing in compliance with the safety regulations for handling of Mercury is to clean thoroughly, eg with the "UV lamp service and safety kit" available by uv-technik meyer gmbh. For repairs and maintenance of plant components of the performers, it must be in writing in each case to a possible contamination.



3. Implosion

Inside there is a low-pressure lamp under pressure. In handling the UV lamps should goggles be worn to prevent eye injuries occurring in the case of implosion.

4. Surface Temperature of the Casing



In operation, achieving some of the low-pressure UV lamp surface temperatures up to 160 ° C. A touch of the housing is generally only after switching off the UV system and a cooling period of at least 10 min are possible. Before replacing the UV lamp it must cool down after switching off at least 10 min, for uv-ultimate devices (LH ...) are 30 min. cooling time needed

5. Hazards during Maintenance



Before carrying out maintenance work, the UV unit has to be separated or unplug the power cord by the mains (main switch) . Furthermore, note the points 1 - 4 these safety instructions.

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6. Safety Data Sheet

A safety data sheet of UV lamps is available on request.

7. Documentation



All persons who have direct visual contact with unshielded ultraviolet radiation sources may have are written repeatedly about the secure and to teach. Failure to observe these precautions can result in serious, irreversible damage results. A liability for injuries suffered by the supplier, uv-technik meyer gmbh, is excluded.

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