

## General information

The arrangement of UV lamps in the installation, their electrical supply and their cooling is very important for the optimum application of these lamps.

Furthermore following rules must be observed for an optimum service and maintenance:

- A frequent switching on and off is harmful for the UV-lamps.
- Every switching process takes half an hour up to one hour lifetime of the lamp. Therefore: Only switch off the lamp, if the expected break is longer than half an hour.
- UV-lamps should be periodically cleaned with alcohol or spirit. If particles are not still burned in they can be removed in that way.
- Do not touch the quartz glass of UV lamps with bare hands. Hand sweat is very aggressive to quartz and causes a recrystallisation (mist). Unintentionally touched lamps can be cleaned with alcohol or spirit.

Considering these hints, the lifetime of an UV lamp can be clearly higher.

## Health protection

To use UV lamps pay attention to official directives.

The **eyes must always be protected**, the skin must be protected to avoid an illegitimate high radiation dose.

**Attention:** The radiation (direct or indirect) is harmful to health for all animals.

## Ozone production

Ozone is produced by using UV radiation with a wavelength lower than 200nm. Ozone in a higher concentration is considered as a toxic gas. Ozone may damage the mucous membranes.

Concentrations of 1 or to 2 ppm over several hours cause headache, pain in the chest as well as dryness and irritation of the upper respiratory tract.