

bersonInLine

Berson UV-techniek
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Since 1975, Berson UV-techniek has designed and manufactured tens of thousands of UV systems.

Development, engineering, sales and service are all carried out from the company's Headquarters in Nuenen, The Netherlands.

As part of the international Halma Group, Berson is:

- a leading innovator
- at the forefront of UV
- financially strong

Berson UV is a specialist in the following UV applications:

- drinking water
- waste water
- Process water
- Swimming pool & spa water
- TOC reduction

Berson UV supplies:

- low pressure lamps
- medium pressure lamps
- bersonMultiwave® lamps

The brand berson stands for:

- innovation
- quality
- cost efficiency
- reliability
- ease of use
- excellent service

UV is gaining acceptance for inactivating microorganisms which are particularly sensitive to UV radiation around 265 nm.

bersonMultiwave® - the culmination of 30 years experience in medium pressure UV lamp technology

Berson, masters in UV



The first 'in-line' UV unit with medium-pressure lamps

BersonInLine® uses bersonMultiWave® lamps, emitting a broad spectrum of UV light in the area of the spectrum between 185 and 400nm.

The bersonMultiWave® lamps emit high intensity UV light due to their high power input.

The combination of a broad spectrum of UV light and high intensity causes total and permanent deactivation of microorganisms, avoiding photoreactivation.

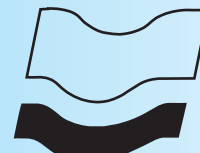
BersonMultiWave® lamps are effective on microorganisms' DNA, RNA, enzymes and other molecules. Limited chance of recovery of UV damage by the microorganisms.

The compact size and high power output of the bersonMultiWave® lamps reduces the quantity of UV lamps and thus the size of the UV chamber.

The 'in-line' construction results in a very low headloss and small foot-prints compared to conventional medium- and low-pressure UV systems.

The shape of the UV reactors depends on the application. The final design is a combination of process parameters and the hydraulic behaviour of the water to be treated. CFD (computational fluid dynamics) modeling and microbiological and chemical field tests are used to achieve an optimal design for the UV chamber.

Research shows no repair of *E.coli*

 **berson**
UV-techniek