



## Ultraviolet Light for Water Treatment Disinfection and Oxidation

Water is necessary for life. The need for clean water continues to grow worldwide. And only a small fraction of fresh water can be supplied as drinking water. Today, almost half a billion people live in countries where water is scarce. And up till the year 2050 there will be a recurring everyday water shortage for at least a quarter of the world's population.

Contaminated water can be treated with high energy UV radiation without the addition of chemicals such as chlorine or ozone. Consequently, special UV lamps destroy not only micro-organisms such as bacteria, viruses, parasites or fungi but also break down any chemicals which are detrimental to health. Even chlorine-resistant pathogens, such as cryptosporidium can be inactivated with UV light.

### Advantages of Heraeus UV-light

- No detrimental taste or smell
- No addition of chemicals
- No environmental impact
- Short radiation time
- Effective against chlorine-resistant pathogens
- Easy to use
- Low maintenance
- Very low operating costs

UV disinfection and oxidation are two proceedings to treat water.

