



High Tech Mediator between Industry and Environment



*Ecological UV Disinfection of Water
without Chemicals*

With our UV disinfection plant, your product is refined.

It is known that the quality of drinking water is subject to alterations which occur even daily. You will obtain a constantly good quality of your drinking water using an

INFRALET UV Disinfection Plant. Almost all dangerous microorganisms are killed by means of UV radiation. Without using chemicals; this medium is "natural"

and of the greatest possible ecological value.

In many industrial plants, the requirements for high quality water are increasingly demanding. They are particularly strong in the beverage industry, especially in all breweries and mineral water plants. Many breweries obliged to comply with the purity rules for production of beer operate with INFRALET UV Water Disinfection Plants. Our UV Disinfection Plants also operate to the satisfaction of all users in the areas listed below:

- Food and beverage industries
- Chemical industry
- Cosmetic industry
- Pharmaceutical industry
- Hospitals
- Municipal and private suppliers of drinking water
- Waste water treatment

Our experts will gladly advise you, if you need perfect drinking water free of bacteria.



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Special Light Sources***

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ULTRALIGHT



UV Water Disinfection Plant
Typ 270893-5/1

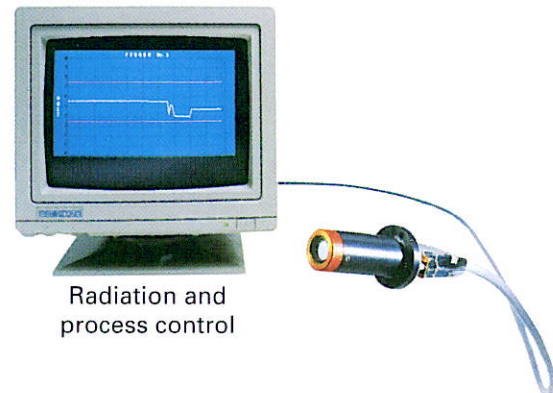


Power Supply

UV radiation of 254 nm provides water free of bacteria, safely and economically.

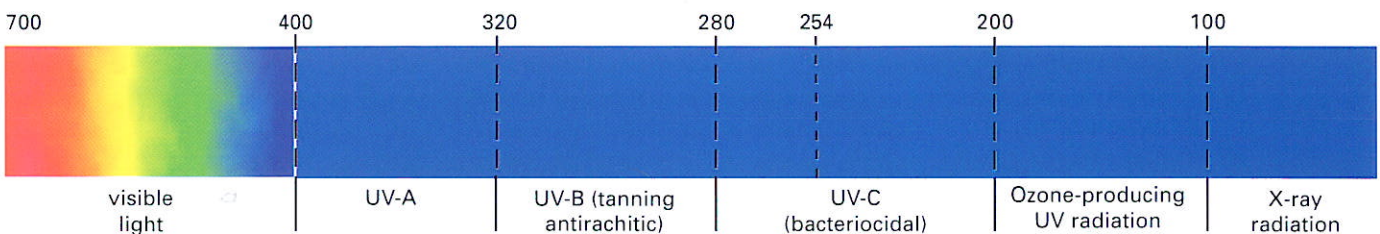
Disinfection of drinking water with UV radiation of 254 nm wavelength is a generally accepted and safe method.

The killing of bacteria and viruses by means of UV induced reactions on their DNA is achieved without affecting the water quality and without addition of chemicals.



Radiation and
process control

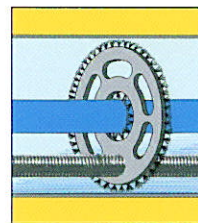
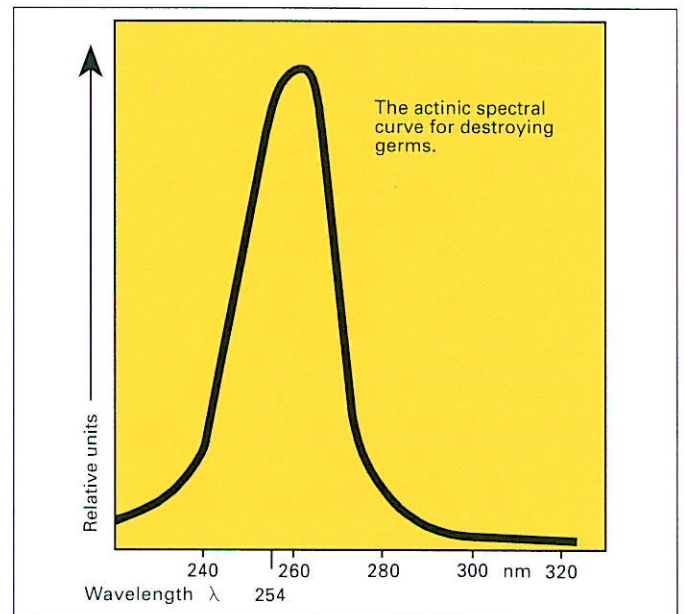
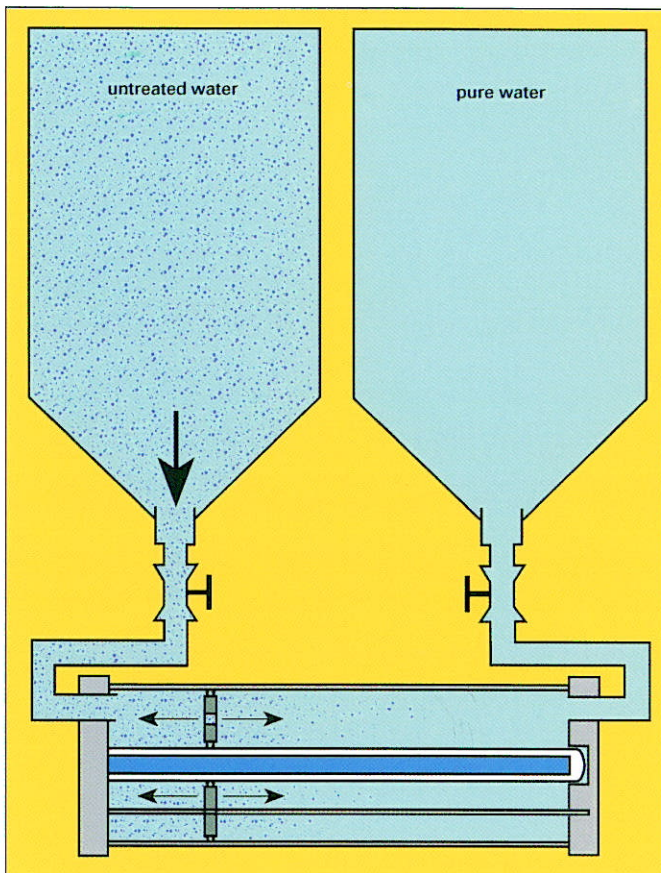
Only a small part of the total UV spectrum has a killing effect on microorganisms. The wavelength range effective for disinfection is the UV-C range with a maximum effect at 254 nm.



The natural UV radiation is a substantial basis for life on our planet. On the other hand, artificially produced UV radiation acts adversely on microorganisms in drinking water. The ULTRALIGHT UV disinfection has a broad application in food, chemical, and cosmetic industries. The ecological ULTRALIGHT UV plants are also used in water purification.

The complete water disinfection with pre- and postfiltration

The new ULTRALIGHT modular system was developed for an input from 5 to 60 m³/h. The automatic cleaning device (Patent No. 3 710 250) guarantees a superior quality of the water in continuous operation without special control or surveillance. The digital indication of the intensity with pre-set intensity limits guarantees an easy control of the UV radiation. It can be extended to fully automatic computer control.



Automatic Cleaning Device
Patent No. 3 710 250

Technical data of module 5/1

Throughput per module 5/1: 5 m³/h
Current: 220V, 50 Hz
Power consumption: 110 Watt
Operating pressure: 10 bar

Economical and technical advantages

- Longevity of the UV lamps
- Minimal operating costs
- Low investment costs
- Very little maintenance
- Mobile use on moveable racks possible
- Inactivating microorganisms without addition of chemicals
- No danger of corrosion
- No change of salt content
- No change of organoleptic qualities
- No formation of toxic byproducts
- Small pressure loss
- Simple setting up and expansion due to the modular system