



# Water treatment

| MORE THAN 40 YEARS OF EXPERTISE  
| AT YOUR SERVICE

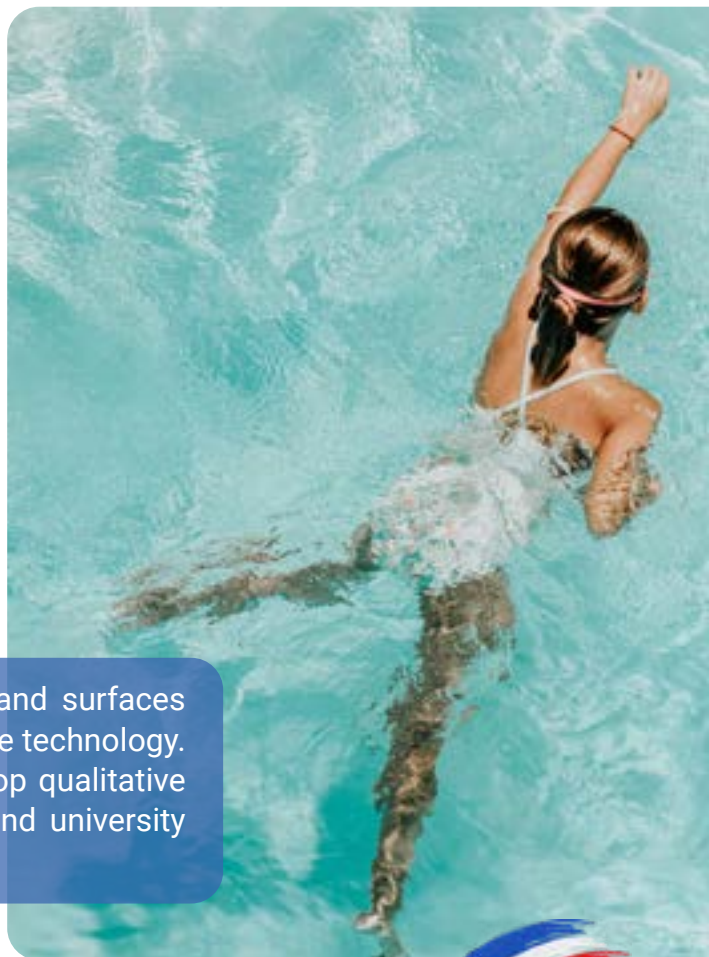


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# WHO ARE WE ?

An excellent water quality is essential to ensure hygiene and optimal health. We aim at contributing to the construction of a healthier world where respect for man and environment are the heart of our society mindset. The water treatment solutions we develop are ecological, respectful of their users and require no chemicals to be effective.

UVRER is a brand specialized in ecological water and surfaces treatment by ultraviolet and air treatment by Tri-Active technology. From their conception to their realization, we develop qualitative and innovative products designed from industrial and university research, perfectly adaptable to your specific needs.



## Our know how

Ultraviolet radiations have the capacity to destroy germs (microbes, viruses, bacteria, fungi, mold, etc.) in fluids and on surfaces. UV-C radiations cross the cytoplasmic membrane of the cell and enter the nucleus. When cells are divided, DNA is unable to replicate or reproduce itself. The molecular structure of DNA is thus broken and renders the microbe harmless, without modifying the physicochemical criteria of the fluid and without generating residual pollutants. Ultraviolet treatment is an ecological solution.

### ♦ **Purification and disinfection in industries and for communities:**

UVRER systems deactivate microorganisms in the water without adding chemical, allowing its reuse in many contexts for significant savings.

### ♦ **Domestic purification and disinfection:**

Our germicidal UV-C devices guarantee a perfect water quality. They allow you to potabilize source waters, drill and reuse rainwater safely.

### ♦ **Pools and natural ponds:**

Our ecological and natural process ensures a great bathing comfort (soft and pleasant water for the skin, ideal for indoor swimming pools, without modifying the pH of water)



## Our values

**EXPERTISE:** Created in 1982, RER was the first company on the French market to use ultraviolet to treat water. Over the years, our business expanded, and we diversified into air treatment, then surfaces disinfection.


**RESPECT:** Harmless to people and environment, the ultraviolet technology treats water in a complete ecological way and respectful of the users. It's a physical process that drives the destruction of micro-organisms without using any chemicals.

**INNOVATION:** Our will: to be constantly at the forefront of innovation to guarantee you a perfect quality of water, air and surfaces to work and live in a healthier world. Our research and development team is attentive to market developments and designs products adapted not only to the new demands but also to the singularity of those you will formulate.

**ADAPTATION:** UVRER is a human sized family owned company, our engineers design tailor-made products, perfectly adapted to our clients needs. Our flexibility, responsiveness and our ability to customize our offers make UVRER a reliable, efficient company with unique and high quality products.

**PROXIMITY:** Our sales team is in direct contact with you to ensure the smooth running of projects and provide relevant advice. We do not have a remote answering platform, everything happens in our company headquarter in Lyon. Whether it is a simple technical information or a custom order, you will always be quickly put in relation with the right person.

## We provide:

- › We take charge of your project from design to realization
  - › Research, development and engineering: development of innovative and efficient solutions, technological development monitoring
  - › Design office: definition of the concept, studies, design and aspect
  - › Welding: stainless steel, realization of specific mechano-welding
  - › Electricity and automation: cabinet wiring, specific integration and automation
  - › Quartz: quartz shaping for specific applications
  - › Control and quality: systematic electrical and hydraulic tests performed throughout all devices
  - › Our ultraviolet and photocatalytic systems come from French industrial and academic research
- 



# Applications

## Drinking water

Drinking quality water is vital: our UV products guarantee an optimal level of disinfection. Spring water, surface water, borehole, well, rainwater or network water securing... Turn raw water into drinking water without using chemicals and drink with peace of mind. In addition, ultraviolet technology has the characteristic of retaining the beneficial properties of water.



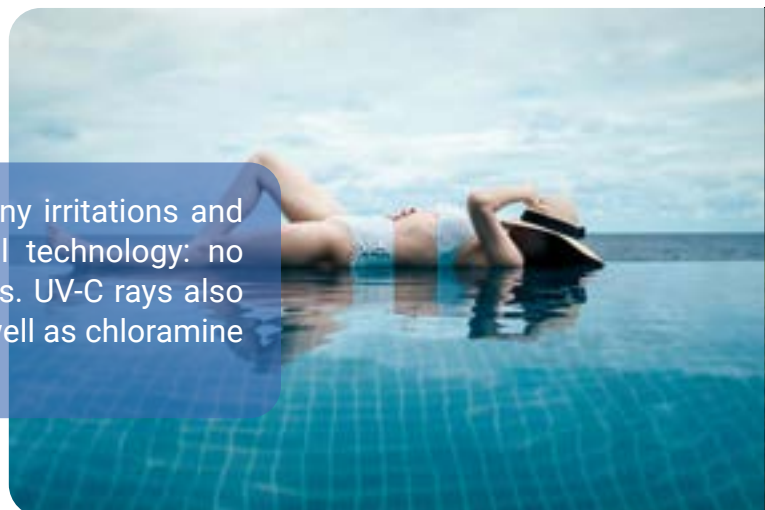
## Industries

For hygiene and health reasons, the water that comes into contact with your products must be in perfect condition. In addition, their shelf life will be much better and your products will be chemicals free thanks to our UV-C systems. Under certain conditions, you can even treat your wastewater in order to reuse it, or also treat it before its release in nature.



## Pools & spas

In contact with the skin, chlorine can cause many irritations and allergies. Ultraviolet treatment is an ecological technology: no pathogenic agent threatens the health of bathers. UV-C rays also eliminate chlorine resistant elements, odors as well as chloramine itself.



# Applications



## Natural ponds

Natural ponds should be treated without chemicals to ensure a healthy environment for ecosystems inside it and for swimmers. Ultraviolet eliminates algae and microbiological contamination without using chemicals.



## Aquaculture

When contaminated, fish farms are treated with drugs which affect their quality by creating residues. Our UV-C installations are perfectly suited to aquaculture and offer an effective preventive solution for quality water and healthy fishes.



## Agriculture & horticulture

Harmless for working force and effective for disinfection and for your water, ultraviolet technology eliminates bacteria, viruses and fungi that contaminate your crops. It also significantly reduces the use of products harmful to the environment and human health.

# Domestic & small flow rate ranges

Available in HDPE

These ranges are suitable for domestic use as well as for small communities. Our devices effectively treat small flows, ranging from 1 to 5m<sup>3</sup>/h. Depending on the quality of your water, our ranges with incorporated filters will assure you an optimal treatment.

## New Uveko



## Station Eureka



Discover our entire **Domestic range**



# Pools, spas & ponds

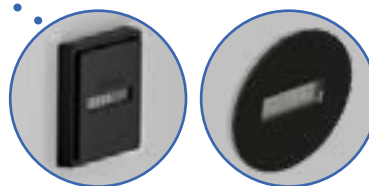
Available  
in HDPE

With a capacity up to 50m<sup>3</sup>/h, our Suneo range is an effective curative and preventive solutions for swimming pools and ponds. UV-C technology destroys living cells (bacteria, viruses, algae, etc.) without modifying the physico-chemical criterias of water and without generating harmful by-products to health and to the environment.

## SUNEO



9 000 or 16 000 hours  
lamps available



Electromechanical or digital  
hour counter

### Our UV-C technology offers incomparable bathing comfort

- Securing the sanitary quality of water
- Adapts to all types of pools and coatings
- No eye and skin irritation
- Preserves and extends the life of equipment
- No smell in the water or in the air
- Simplified installation and maintenance



Discover our entire **Pool, spa & pond range**

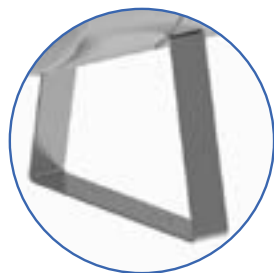
# Industrial ranges

Available  
in HDPE

## DFI/FZI

From 5 m<sup>3</sup>/h to 130 m<sup>3</sup>/h

12 000 hours lamps



Inox or HDPE supports  
available for all ranges



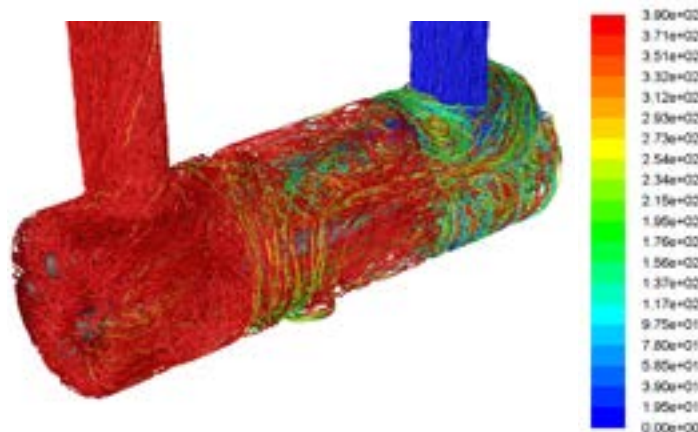
Control cell kit

Choose In/Out  
flange size



Our design office has focused on improving our FZI range with the conception of DFI range: the D stands for Deflector, as all devices will now come with a significant upgrade. Inside deflector allows better disinfection and easier maintenance, with increased hydraulic and energetic performances.

More accurate data: Using CFD (Computation of Fluid Dynamics) software makes it possible to accurately simulate the flow of fluids and UV-C radiation inside our devices. We thus have a follow-up of each possible trajectory which allows us to calculate the residence time as well as the perceived dose for each organism crossing the device.



Deflector for better treatment  
and easier maintenance

**Significant energy savings:** Thanks to accurate data collection, we have managed to improve our devices performances which reduce the energy consumption required. Concretely, the flow rate capacity at 85% transmission for the DFI 530 allows twice the capacity of the FZI 530, for the same energy consumption.

**Easier maintenance:** Taking into account all these parameters allow us to design deflectors that facilitate the quartz insertion inside the device for higher permissible flows. It is specifically efficient in case of troubled/dirty water to allow a better transmission of UV-C light.

Measure the UV intensity and control the efficiency of lamps



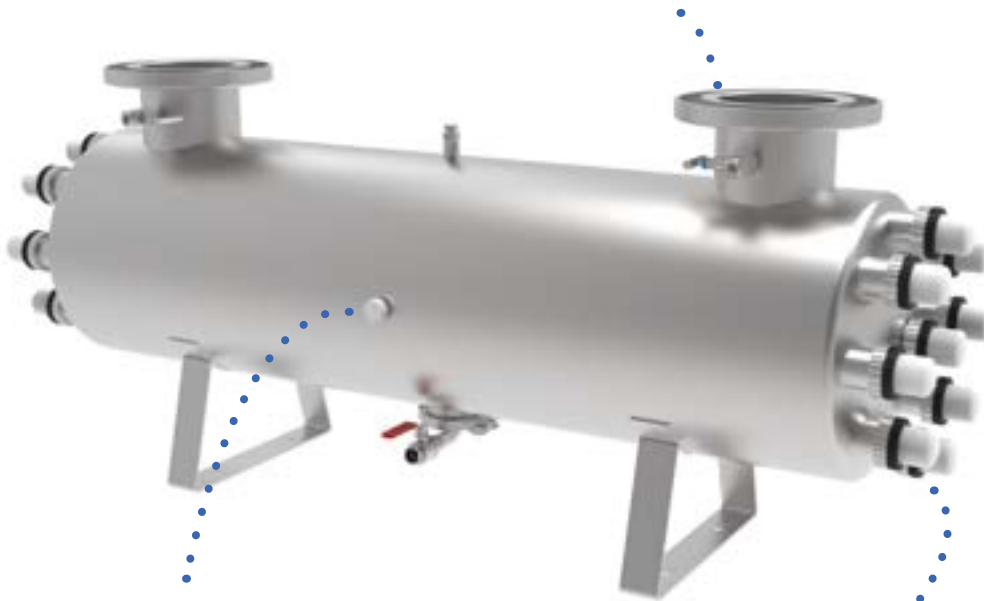


# FTA/FKA

From 10 m<sup>3</sup>/h to 1 500 m<sup>3</sup>/h

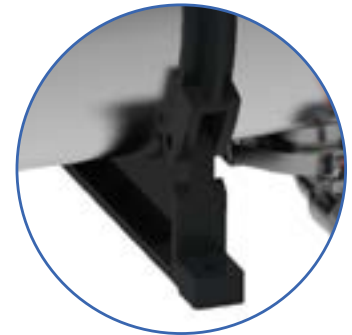
Available  
in HDPE

Choose In/Out flange size



Control cell kit

12 000 or 16 000 hours  
lamps available



Inox or HDPE supports  
available for all ranges

Les gammes FTA/FKA ont été conçues spécialement pour l'industrie et intègrent des lampes de 325W ou, selon vos besoins, de 400W. Vous pouvez non seulement traiter des débits importants de 1500m<sup>3</sup>/h et plus, mais également des eaux à faibles transmissions (très sales, polluées) ou à forte concentrations bactériologiques.

**The power to treat anything you want** : composed of 325W lamps for the FTA and 400W for the FKA, you will have the necessary power to treat any flow rates. We also adapt our installations to the needs of our customers and build tailor-made modules.

**Eliminate all threats**: with these ranges, you will be able to treat water towers, municipality networks and industrial effluents. With long lasting lamps, from 12 000 to 16 000 hours, and a minimal maintenance, these are perfect ranges to operate in industry.

Measure the UV intensity and control the efficiency of lamps



Discover our entire **Industrial range**

# Tailor-made solutions for industry

Because it is essential to adapt to the needs of our customers, UVRER creates tailor-made installations. Here are some examples:

## UV-C+H<sub>2</sub>O<sub>2</sub> module:

Adapted to chemical industry and answering unresolved issues by conventional methods, we have developed a tailor-made semi-industrial pilot. This device integrates all the necessary elements for the operation of the process on a single skid (UV reactors, injection pump, filtration, control automation).



**Client:** fruits and vegetables retailer

**Problematic:** reduce the amount of water used when washing and rinsing products by reuse it

**Module manufacturing time:** 5 to 6 weeks

**Composition:** 1 pump, 2 series of 5 UV, 2 filters, 1 ULF

**Solution:** limit the amount of water used when washing and rinsing products

- avoid water overconsumption for important savings
- avoid chemicals
- recycling and bacterial water quality maintenance
- compact installation: easy to install and connect



**Client:** dairy farmer

**Problematic:** treat and use catchment water

**Module manufacturing time:** 8 weeks

**Composition:** water booster, filters, UV lamp, chemical pump, ULF

**Solution:** this tailor-made module improves the water pressure, filters it, and treats it bacteriologically and allows water proper diffusion



**Water, air and surface**  
disinfection specialist

CONTACT US

Need advice ?

Our experts are at your service

**[Our contact form](#)**