

Advantages of **PURE** UVC systems

- Disinfection of up to 99.99%
- Long-life product thanks to high-quality material (V4A stainless steel, proven and robust electronics)
- All spare parts are permanently available at short notice
- Easy installation, low operating costs
- Service-friendly and easy handling
- Individual adjustments and special requests are possible, e.g. operating hours counter, UVC sensor
- Outstanding price-performance ratio

The right solution for every task:



Water ist life ...

Life is precious.

High-quality water is a vital good. The reliable and good water quality, completely without the use of chemicals is possible.

For 15 years UST Umwelt-Systemtechnik GmbH has been developing and manufacturing high-quality UVC systems in Gera, Germany.

A **PURE UVC system from UST ensures the supply of clean water for pools and ponds – without irritation of skin and eyes – without chlorine!**

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Water disinfection.

Without Chlorine!

Cristal clear water in pools & ponds.



The right solution for any task.

Our broad product range offers proper performance for the treatment of any capacities and conditions.



PURE 1.0 AND PURE 1.2

Compact systems for whirlpools



Flow through
300 to 2.500 l/h

- Configurations: 16 W, 21W, 50W
- Connections with 1/2, 1 and 2 inch

How does UV work?

- Fixed inside a stainless steel reactor are a quartz sleeve and a lamp
- **The lamp emits electromagnetic waves with a focus on 254nm**
- At this wavelength the **most effective reduction of germs** is achieved
- The electromagnetic waves at 254nm damage the DNA of any microorganism, stopping effectively its reproduction capabilities
- **UV-disinfection can never overdose** its effects are achieved only within the stainless steel reactor and is therefore the safest technology for the disinfection of pools and ponds.
- While the effect of chlorine take minutes the **UV-disinfection shows effect in fractions of seconds, eliminating bacteria, viruses and algae instantly.**

PURE 2.4

For cristal clear water in pool and pond

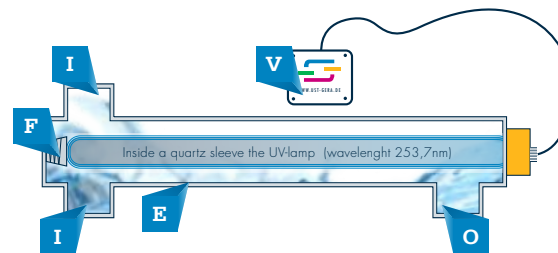


Pool capacities
20 to 105 m³

- Configurations: 40 W, 75 W, 120 W, 150 W, 240 W, 300 W
- Perfect fit for small and larger pools & ponds
- Reducing effectively the development of germs and algae

Scheme PURE WATER systems

The UV-Disinfection guarantees clear water reducing effectively bacteria, viruses, algae and other microorganism.



- I = Input contaminated water
- O = Output clear water
- V = Electronic ballast with robust technology
- E = High quality stainless steel reactor
- F = Incorporated stainless steel socket with a spring to fix lamp and quartz sleeve safely

PURE O₃

Doubled impact with UVC + OZONE



UVC + OZONE
high effectiveness

- Configurations: 41 W, 87 W, 120 W, 150 W
- Best solution for pools and ponds with high exposure
- Also available with 24 VDC (41 W)

How does OZONE work?

- The water flow is used to generate an under-pressure, that takes in ambient air and leads it along the UV-lamp
- **The lamp emits electromagnetic waves for direct disinfection (254nm), additionally a radiation with 185nm is produced.**
- The 185nm splits oxygen molecules into single atoms that form to ozone (O₃)
- **The ozone is then injected into the water flow to react with any organic material**
- In a final step the ozonated water passes through the stainless steel reactor for an additional disinfection with 254nm
- The 254nm also cause the destruction of excess ozone - it is the integrated safety feature to ensure no ozone leaves the system
- **OZONE is the strongest oxidation used in water treatment, it is substantially more reactive then chlorine, delivers results with much shorter residence time**