

UVC Disinfection

ND Water 4000 is an easily implementable UV system which is used for water disinfection in the fight against unwanted microorganisms in process water/ circulation systems and other liquids with low UVT. ND Water 4000 can inactivate up to 99.99% of bacteria, fungi and viruses in the treated area.

ND Water 4000:

- ➔ Flexible solutions for liquids.
- ➔ Easy implementable with hygienic clamp connection.
- ➔ Proven technology with high UVC performance.
- ➔ High efficiency with up to 99.99% inactivation.
- ➔ Compact solution designed for use in environments with high performance requirement.



Used in:

- ➔ Liquid systems with process water
- ➔ Emulsion and oils
- ➔ Opaque liquids like
 - Juice, coffee, brine, etc.
- ➔ Process materials in liquid phase



Read more about
UVC here

Technical information:

The UV unit for water disinfection is mounted directly on the water line, either vertically or horizontally. The unit is made of stainless steel with an inner quartz glass where the bulb is mounted. This allows replacement of the bulb without turning the water off in the meantime.

All maintenance can be done without the use of tools. Connects with clamps and made in hygienic design.

At a UVC dose of 10 mJ/cm² you will under normal circumstances achieve a reduction in E-coli, etc. with up to 99% or more.

At 30 mJ/cm² you will achieve a very high reduction of 99.99% of the commonly occurring pathogens in water with UVT down to 90%.

Specifications	
Specifications may vary based on individual configurations	
Product name	ND Water 4000
Lifetime on bulb	Up to 10.000 hours or 3000 On/Off or 2 years from delivery
Number of UVC-lamps per unit	1 pcs.
UVC dose*	Up to 400 mJ/m ² at 4000 l/h
Length × Diameter	980mm × 92mm
Operating temperature	10-40°C
Capacity per. hour	100-4.000 l/t
IP	67
Electric info	230V – 90 W
Plumbing connection	Flange 50,5 mm DN25 21,3 - 41,0 mm Optional 1" Internal/External thread
Weight	4 kg.
Material	Stainless steel 316 (Food contact material approved)
Protection against glass shattering	Optional coating of Food contact material approved FEP

*UVC dose is measured at a distance of 100cm accordance with the norm and with the use of an approved ballast.