



# Water disinfection

# ND Water 1000 Pro

## Areas for use:

- Chemistry free disinfection of water with low transmission
- Special designed to keep process water free of harmful organisms

For use in:	
Sewage plants	Water for household
Process water	Pools
Emulsion for cooling and lubrication	Water from air conditioning
Greenhouse	Aquarium and fish farms

Available for 110-240 V or 12/24 V DC.

## Unit description:

The device is made from stainless steel 1.4571 (316Ti) with an interior of the quartz glass, in which the bulb is mounted.

This allows replacement of the bulb without turning of the water. All maintenance is done without tools. The unit has a high effectiveness in a very compact design, and with a low consumption of electricity.

The water runs through the lamp house and passes the quartz tube, where the UV bulb is placed. When the water passes the bulb, the disinfection takes place - bacteria will be inactivated and the water will be safe.

The small distance of 2 mm between the quartz tube and the inner surface of the reactor ensures optimal irradiation and therefore optimal disinfection of the water, even at less transparent liquids.

The units are designed to be mounted horizontal or vertical.



## The UV-Lamps:

The UV-lamps are known for long durability, high grade of disinfection and low energy consumption. The configuration of the unit allows for easy access to changing of the bulb and other maintenance. The lamps are designed for a lifetime of 10.000 hours

### **Technical data:**

Type & mark	ND Water 1000 Pro		
Flow	1 m <sup>3</sup> /t water for use 700 l/t emulsion fluid		
UVC-Transmission	>20% T <sub>1</sub> cm	Life span on bulb	10.000 h
Water temperature	2°C to 40°C	Dose	400 J/m <sup>2</sup>
Housing	Stainless steel 1.4571 (316 TI)	Maximum temperature	40°C
Male thread size	R 1"	Working pressure	10 bar
Protection	FPM	Type of housing	IP 65
Measurement (L x Ø i mm)	420 x 42	Electric connection	230 V/50 Hz or 110-240 V 50/60 Hz 12 V DC or 24 V DC
Flange distance	340 mm	Effect and fuse	17 W & 10 A
Weight	2,8 kg	Number of lamps	1

### **Accessories:**

- Timer that count the operation hours of the lamp, in order to secure correct bulb change.
- UV sensor to detect proper operation when safety is needed. The unit will signal with light when the intensity becomes too low.
- High voltage cable between the EVG and the lamp, 1m, 5 m or 10 m.
- Mounting set for easy mounting of unit on wall. Includes clamps for stainless unit and clamps for control box.

### **Other products in the water family:**

Single units for process water from 300 l to 4.000 l

Multiple units for drinking water from 4.000 l to 40.000 l

Units for: Process water, bassins, climate water, aquarium, fish ponds, pharmacy

Units for other use: Surface disinfection, air disinfection active and passive, Cleanboxes and Tunnels.

### **Warning:**

UV radiation is dangerous for your skin and eyes! Both your eyes and skin must be appropriately protected from the direct UV light.

The user will be responsible for his own safety, as well as for the safety of people who are staying in areas where these units are being used.

Please bear in mind that materials which are not UVC-resistant may be damaged.