



Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities www.demeaumed.eu

UVOX REDOX

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Triple water treatment

The UVOX Redox technology combines the effect of ozone with the oxidizing disinfecting effect of UV-light, and initiates thereby a highly effective advanced oxidation process (AOP) in one single system with one single UVOX lamp.

Applications

- Public swimming pools
- Natural pools and swimming ponds
- Zoos & Aquariums

Test results for UVOX in the demEAUmed demonstration:

A highly effective inactivation of all microorganisms as result of the AOP ✓ 1.6 log removal of the *B. subtilis* spores already at 12.5 mJ /cm² UV dose

- Drinking water
- Process and waste water

Advantages

- Chemical free way of water purification
- No dangerous by-products
- Triple water treatment:
 - ✓ Ozone
 - ✓ UV-Disinfection
 - Advanced oxidation process (AOP)



- Rapid reduction of Combined Chlorine
- > No DBPs (THMs, HAAs, HANs and bromate) are formed by the UVOX
- Chloroform and DCAA are reduced
- Fluid case the Body Analog (micro ► In UVOX before pollutants) are treated by

Costs & savings

- ♦ 59 m³/h water flow with only 2.22 kW/h energy consumption
- Additional savings on water, chemicals and energy

Early R.O.I. in approximately 2.8 years



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chlorination. The formation DBPs can be

reduced significantly

