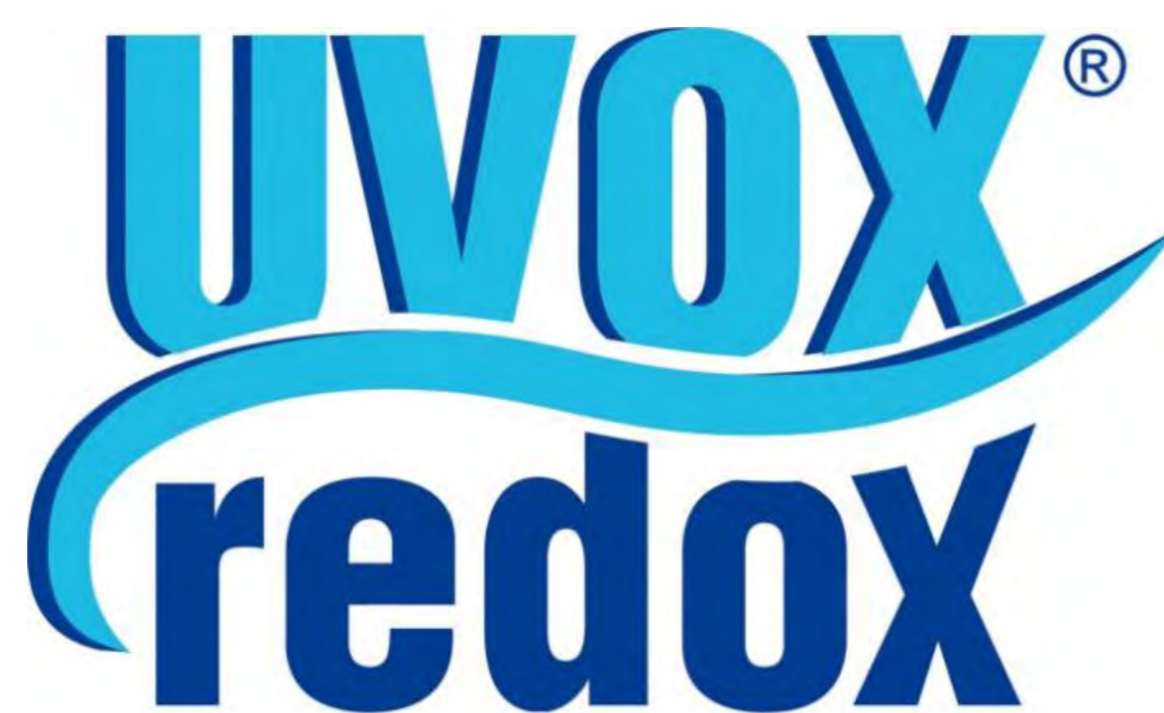




Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities www.demeaumed.eu

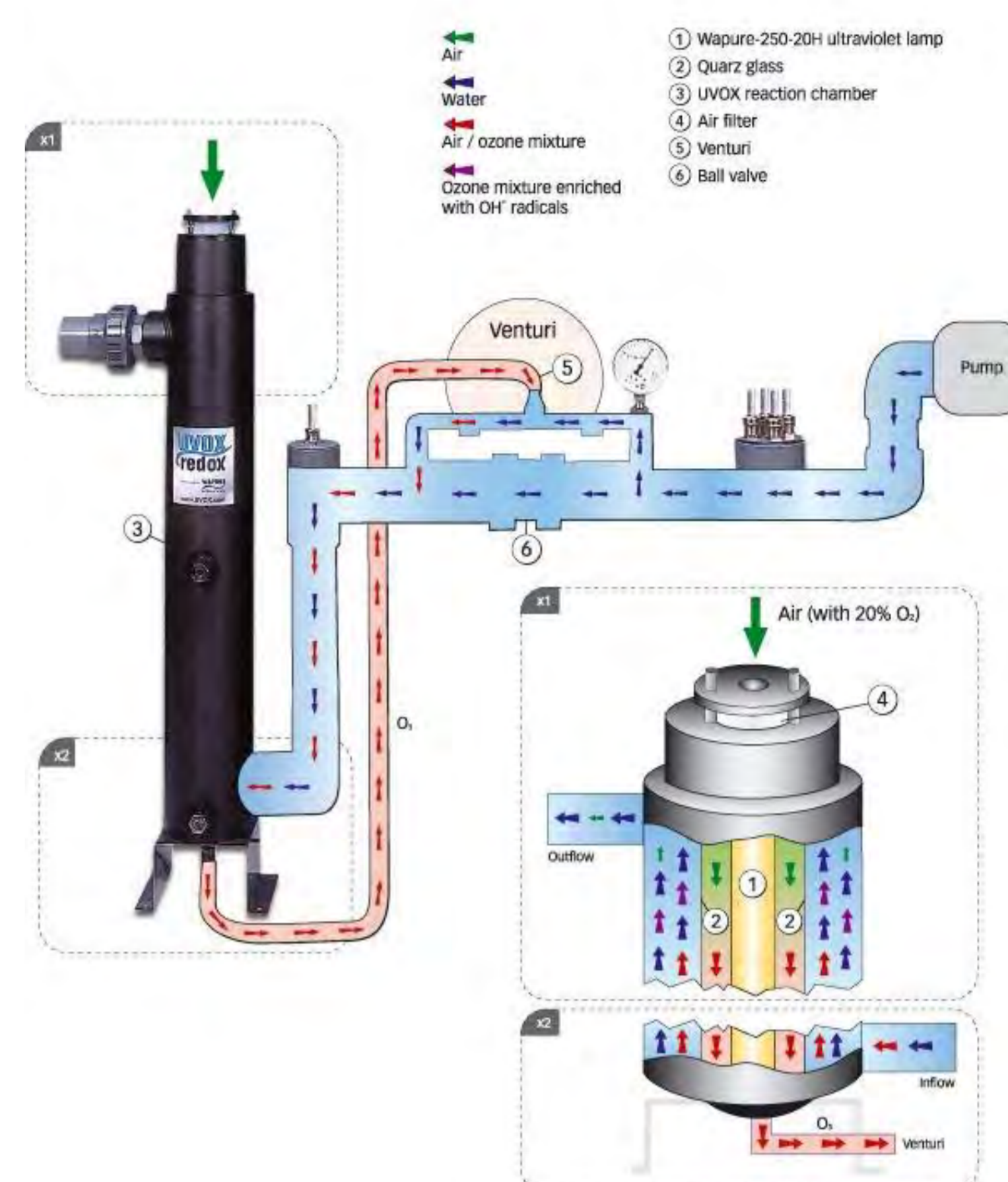
WAPURE International GMBH

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Triple water treatment:

The UVOX Redox technology combines the **oxidizing effect of ozone** with the **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
- 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)

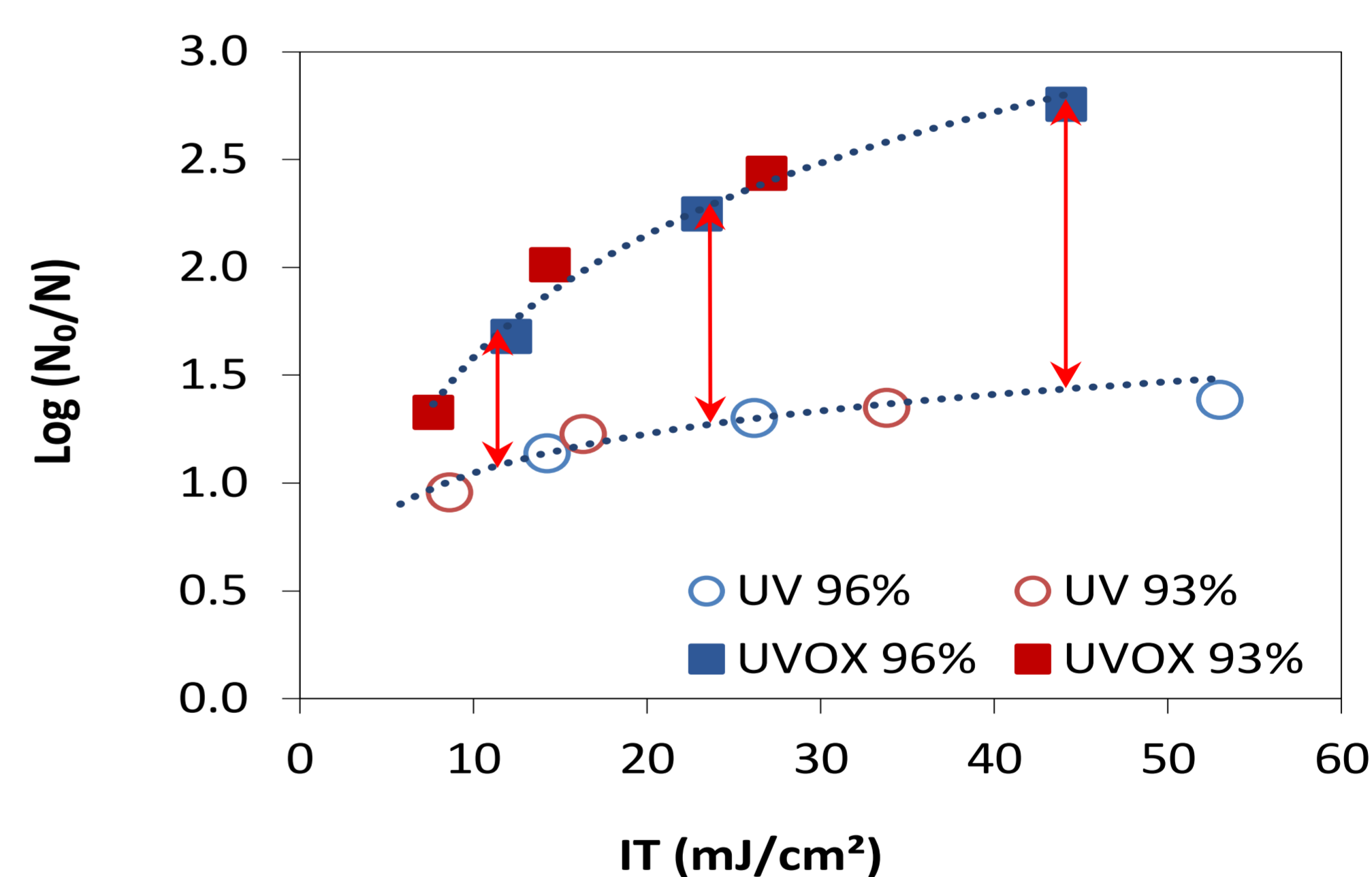
Costs & savings:

- ❖ 59 m³/h water flow with only 2.22 kW/h energy consumption (0,30 Euro per m³)
- ❖ Additional savings on water, chemicals and energy
- ❖ Early R.O.I. in approximately 2.8 years
- ❖ CO² Footprint of **minus 0,48**

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



- **Rapid reduction of Combined Chlorine**
- **No DBPs (THMs, HAAs, HANs and bromate) are formed by the UVOX**
- **Chloroform and DCAA are reduced**
- **In case the Body Fluid Analog (micro pollutants) are treated by UVOX before chlorination. The formation DBPs can be reduced significantly**

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