



**Specialists in Sludge Treatment**

# UVOX 250

**UVOX – A unique process combining the oxidising effect of Ozone with the disinfecting qualities of Ultra Violet Light**

#### **UVOX 250**

A neatly packaged combined Ozone generation and Ultraviolet water treatment system  
For Potable Water, process water, swimming pools and many other applications  
Kills pathogens  
Destroys organic Compounds  
Eliminates unpleasant odours and tastes  
Low capital cost  
Very low running costs  
Small footprint

#### **UVOX REDOX CONTROLLER**

Measurement and control system for up to 2 UVOX-250 Systems  
Monitoring and control of Ozone supply  
UV intensity monitoring  
Other measurands pH  
Control of dosing pump  
Up to 16(TTL) switching outputs  
Remote access via SMS



#### **Euroby Ltd**

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## The UVOX Process

The process is based on a unique lamp designed by Mr. Ing. J.J.Berson.

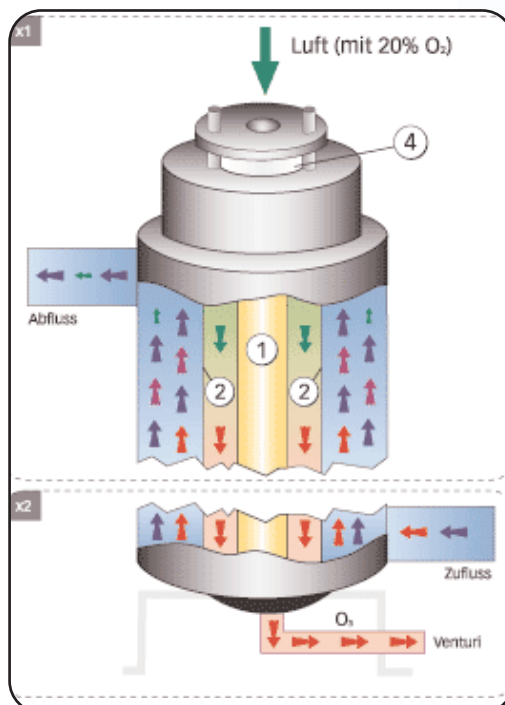
Air is inducted into a sleeve surrounding the bulb and subjected to UV light at 185nm. This converts oxygen in the air to ozone.

Ozone is a powerful oxidant, destroying pathogens, organic compounds such as pharmaceuticals and pesticides, chlorinated hydrocarbons, nitrites and cyanides. It eliminates odours caused by hydrosulphides and other compounds.

The air/ozone is injected into the incoming stream of water via a venture system.

Passing back through an outer sleeve, the mixture is again irradiated by UV light at 254nm. Here two processes take place:

The ozone is converted into OH<sup>-</sup> radicals, increasing the oxidation potential from 1.52 (ozone value) to 2.05 (OH<sup>-</sup> value) and the remaining ozone is destroyed.- in many cases the need for an activated carbon filter is eliminated.



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