



### **IFB Interexperts**

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# **Water & Waste Treatment Systems**

- Electronic Anti-scale Unit
- Legionella Protection
- SBR Wastewater Treatment
- Reverse Osmosis
- Pool & Spa



- **Protects pipes** from lime-scale, rust and corrosion. Especially effective in hot water networks.
- **Protects all equipment** (heat exchangers, boilers, washing machines, ice cube makers, coffee makers) that come into contact with water
- **Removes** existing lime-scale deposits from pool walls and protects pumps, filters, valves and sensors
- **Allows the use** of hard and/or brackish water for irrigation and fire fighting storage without causing problems to plants and pumps



# AQUA SOFT II

# Legionella

Fight the invisible enemy with Chlorine Dioxide



## ○ Why should I use the Chlorine Dioxide method?


The use of chlorine dioxide as disinfectant is one of the most advanced methods of keeping safe water networks from the development of Legionella. The method has significant advantages over conventional methods (thermal shock, chlorine shock, use of metal ions) like the ability to bypass biofilm, the short required contact time and the absence of toxic byproducts and odors.


## ○ Why should I choose the “stabilized” Chlorine Dioxide


Chlorine Dioxide is a highly volatile and unstable compound, thus its injection in a water stream demands expensive sophisticated equipment for the in-situ production and injection.


The method we are proposing, uses a “stabilized” Chlorine Dioxide liquid compound (patented formula), ready for use. The injection of the product is done by a high precision posing pump.


The method has significant advantages:

 **Very low investment cost**  
**Low operational cost**

 **No maintenance** needed  
**Simple operation** no specialized personnel needed

 **No consumables**  
**Very Low** power consumption <20 €/yr

 **Reduces** the needed amount of cleaners and chemical  
**No waste** production

 **Significant reduction** in piping and device maintenance  
**No maintenance** needed  
**Product Life** 20-30 years

**Aqua Soft II** is a high frequency alternating electric field generator. The field is produced with the help of its antenna directly into the target pipe. The intensity of the field is controlled by its patented control module.

**The produced alternating electric field** is capable of giving the water's charged ions the necessary kinetic energy to make them collide and form neutrally charged insoluble crystals.

**The formed crystals** remain insoluble even after traveling long distances inside the pipe and for a period of up to 6 months, depending on the storage conditions.

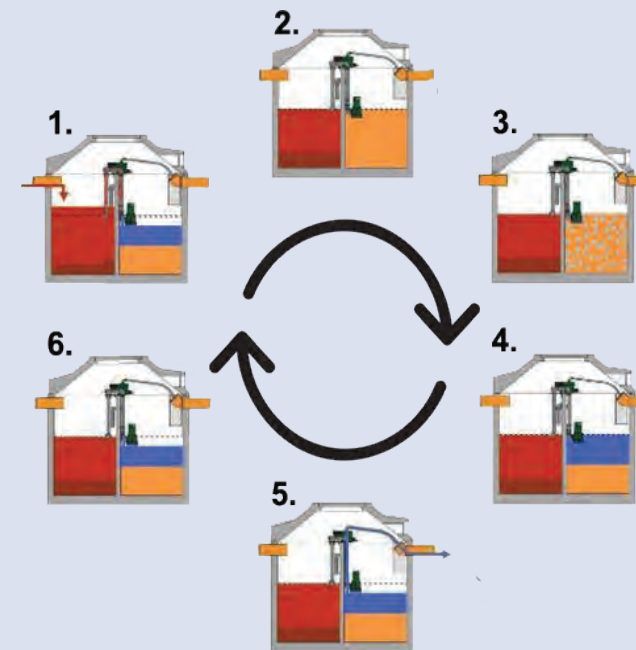


# SBR: Sequence Batch Reactor

The most perfect waste water system



Sample Tank Layout of an Interosmo SBR system (Primary Tank 1 & 2, Buffer Tank, SBR Tank)



**The phases** of a full SBR cycle:

1. Filling up
2. Steering
3. Aeration
4. Settling
5. Removal
6. Pause



**Significant reduction** in power consumption, up to 70% less than a conventional system



**Guaranteed effluent quality** fully compliant with legislation



**Completely smell proof** design thanks to the perfect aeration cycles



**Reduced sludge deposits** up to 50% less than a conventional system



**No daily maintenance** required

**Sequenced batch reactors (SBR)** are an innovative kind of active sludge wastewater treatment systems. Its main difference with the conventional systems is that all stages of the treatment are performed in batches in the same tank.

**This sequential waste treatment** offers significant advantages in the control of each phase and the optimal aerations of the waste without requiring sophisticated control systems and expensive sensors. Additionally, it requires less installation space.

**InterOsmo SBR Systems** have some additional advantages over the conventional ones. Featuring our patented floating surface aerator systems allows us to perform optimal aeration with up to 70% less power consumption compared to conventional systems.



## Reuse of wastewater treatment plant's effluents

The effluent water produced by the system can be reused to cover all or part of the irrigation needs, drastically reducing the running costs of the facility. InterOsmo's 3rd stage refinement units are fully compliant with the legislation for "unconditional irrigation" and can be added to all existing or new systems offering instant return on investment..



## Optimization – Upgrade of existing WWT systems

InterOsmo SBR systems can be used to upgrade existing conventional systems with minimal required modifications in the existing facilities.

For existing systems that demand immediate performance improvements, we offer a wide range of certified enzymes in liquid form, that will negate existing problems of smell, clogging and grease deposit. These products can be utilized as a sort terms fix until a proper fix or upgrade of the system can occur.



# Reverse Osmosis Systems

# InterOsmo®

Πολύτιμο σαν το νερό!

*InterOsmo® has the solutions your Hotel seeks.  
Our Clients' are our best advertisement*



## Pool & Spa Equipment

We provide a full range of equipment, spare parts and accessories for pools & spas

- Chemical Dosing Stations
- Robotic Cleaners
- Whirlpool Spas, Swimming Machines, Bubble machines
- Pumps
- Filters



**Capacities** from 2 to 1000 m<sup>2</sup>/day



**High Quality** construction



**Custom design** and build to fit any available space



**Best value** for money units in the market



**Technical support** 24 hours a day, 7 days a week, 365 days a year.

**Reverse osmosis** water producing systems are a widely accepted solution for covering the water requirements of Hotels and resorts.

**IFB Interexperts**, having a 15 year experience in the field, designs and produces reverse osmosis systems, tailor made to each Hotel's needs

**InterOsmo family** contains a full range of brackish and seawater units, as well as extremely low (down to 5%) rejection and hybrid units capable of covering even the most special of needs

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