



TECHNOLOGY

The future Technology of - Sterilization, Disinfecting, Water purification

ELECTROLYZED OXIDIZING WATER (ANOLYTE)

Aquacode Electrolyzed Water technology is the process of passing a diluted saline/water solution through a uniquely designed electrolytic cell in which an oxidizing, acidic hypochlorite solution is produced. The water/saline solutions functional properties thus changes without adding any toxic reagents in the process.

In effect the Aquacode Anolyte is a strong antioxidizing solution with a pH range that can be adjusted between 2.5 – 8.5 and an Oxidation-Reduction Potential (ORP) that can be adjusted between +600 to +1200 mV.

Because of the Anolytes highly functional intrinsic properties, the Aquacode Anolyte is effectively used as a broad spectrum germicidal agent holding the ability to:

- Destroy and eliminate all aerobic/anaerobic bacteria such as e-coli, listeria, legionella and salmonella
- Destroy and inactivate viruses such as hepatitis virus, norovirus, avian influenza virus, HIV, polio virus etc
- Destroy and eliminate fungus, mold and biofilm
- Eliminates harmful free radical particles

GENERAL MEDICAL AND DENTAL APPLICATIONS

The Aquacode Anolyte liquid is a potent and powerful sterilizer used for Medical and Dental disinfection and sterilization purposes and for general medical water conditioning.

The Aquacode Anolyte is commonly used to disinfect and to sterilize all medical and dental tools such as scalpels, pincers, drills etc, as well as all medical products of complicated configuration such as needles, wound dilators, forceps for teeth extraction, different tooth steel drills, test-tubes, capillaries, catheters, probes, endotracheal drains, capillary and laminar dialyzers, oxygenators, endoscopes etc.

Additionally, the Aquacode Anolyte is effectively used for washing of doctors, dentists and surgeon's hands and arms.

NEW INTEGRATED DENTAL UNIT TECHNOLOGY (IDT)

During 2011 Matseco Partner AB has in a joint project together with Dr. Bengt Grimsgård and Sundstandläkarna in Helsingborg implemented a completely new and unique way of sterilizing **all** incoming water of a **complete** dental clinic. The technology is on the forefront of dental technology and the first of its kind worldwide.

The technology was developed with ease of use and cost effectiveness in mind.

The main goal was to satisfy all legal requirements regarding water quality, water treatment and any sterilizing need in the Dental business area while keeping the workload to an absolute minimum.

Matseco Partner has managed to reach all of these goals and we are very proud to present this new and completely unique technology to the market.

FUNCTION DESCRIBED

The technology is based on the idea that dental clinics incoming water is automatically treated without any intervention or manual labor of personnel. In order to achieve this goal, we opted for a direct integration of the Aquacode Anolyte Solution with the incoming water pipe system.

The IDT system in its basic form consists of:

- A water meter for measuring the quantity of incoming water flow
- A water pump infusing the anolyte liquid at an adjustable interval into the water pipe system
- A special Anolyte liquid water tank
- An Anolyte tank level warning system
- Hoses and cable

Aquacode™

A Ball valve and a pipe connection is fixed to the cold water incoming pipe



A new water meter with flow measurement capabilities is installed



An adjustable water pump is installed



A special Anolyt water tank is fixated



Aquacode™

Final test installation



The current distillation is set to infuse a total of 2 ml of Anolyte per liter of water (0,2% dilution). This is naturally fully adjustable depending on requirements, the water quality, the hardness of the water, current PH etc.

There is no need for any manual operation; the IDT solution is fully automated.

The normal rate of Anolyte water tank refill will be set to approximately once a month. This is adjusted using the water tank size in relation the needed Anolyte infusion rate and the clinics water consumption.

The Anolyte is delivered and refilled monthly by Matseco Partners Aquacode technicians.


Once a year the system is serviced by a Matseco Partners Aquacode technicians



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The pre installation water quality tests showed high levels of bacteria precense in the dental units.

Sidan 1 av 1



VATTENVÅRD

Sundstandläkarna Ramin Nikzad
Strängnäs 2011-08-15


Att: Maseco

BAKTERIETEST
Efter mottaget vattenprov utfördes analys av bakterietillväxt. Det förekom inte några spår av svamp eller Jäster i odlingen.

<i>IKP Nord Laboratorium AB fick ut följande resultat</i>	<u>Antal</u>
Bakterier	10 ⁷ /ml (1000 per ml)
Svamp	0
Jäst	0

Kommentar
1000 per ml är maxnivå enligt gällande riktvärden.

Med vänlig hälsning
Ramin Nikzad
Biokemist/Personalchef



VATTENVÅRD

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A high level of bacteria and substantial occurrence of biofilm is a very common problem in all dental units and in most dental clinics. This is partly due to the structure of today's dental units using plastic hoses, internal water tanks, still standing waters and many dead ends as well as no sufficient cleanings matters available.



Aquacode™

The post installation water quality tests show that **all** bacteria have been eliminated and that there are no traceable microorganisms or biofilm after the IDT installation.

Sidan 1 av 1



Sundstandläkarna

Ramin Nikzad
Strängnäs 2011-09-05


Att: Matsaco

BAKTERIETEST
Efter mottaget vattenprov utfördes analys av bakterietillväxt, svamp och jäster.

<i>IKP Nord Laboratorium AB fick ut följande resultat.</i>	<u>Antal</u>
Bakterier	0
Svamp	0
Jäst	0

Kommentar
Inget spår av varken svamp, jäst eller bakterier.

Med vänlig hälsning
Ramin Nikzad
Biokemist/Personalchef



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