



# Natural Hygiene Solutions CLEANING IN PLACE (CIP)




*Experience*

*Depth of Knowledge*

*Flexibility*





Radical Waters is an Electro-chemically Activated Water (ECA) solutions company, who engineer and install NATURAL hygiene management devices.

Established 12 years ago in this specialised field and with customers on 6 continents, we are pioneers and leaders in the field of ECA and its integration in the beverage industry.

To date Radical Waters has installed over 60 devices in beverage plants located in 18 countries around the world.

As the demand for our technology grows we have begun partnering with locally based Process Engineers and distribution partners in order to streamline our installations and improve our service offering. This will ensure the best ongoing service delivery possible to our steadily growing blue chip client base.



## Through the use of our Technology results have shown:

1. An increase in production time and overall operating efficiency due to shorter CIP's – time savings of up to 70%.
2. Substitution of conventional chemicals with natural ECA solutions result in chemical cost savings of up to 90%. Anolyte is a broad spectrum antimicrobial agent effective against the following beverage spoilage microbes, amongst others:
  - *Lactobaccillus*
  - *Pediococcus*
  - *Bacillus*
  - *Aspergillus*
  - *Cladosporium*
  - *Alicyclobacillus*
3. **Environmental benefits:**
  - Water savings of up to 60%
  - Energy savings – all CIP's are performed at ambient temperatures
  - Safe in the hands of workers, safe to the environment
  - Substantial reduction of toxic effluent
  - Carbon dioxide emission savings (3 ton p.a on smallest device)
4. ECA does NOT affect the taste, colour and appearance of the products.
5. Compliance to achieving critical micro-standards in products with no preservatives or post-filling pasteurisation.
6. A proven solution engineered for an existing or new CIP system.

*CIP time savings of up to 70%*

*Chemical Cost Saving up to 90%*

*Water savings of up to 60%*

*Energy Savings*

*Reduction of Toxic Effluent*

*ECA does NOT affect the taste, colour and appearance of the products*

## Zero Tolerance

While many micro-organisms develop a tolerance to conventional chemicals as a result of continuous exposure, ECA exhibits a unique mechanism of biocidal action, which is distinct from that of conventional chemicals. Micro-organisms can not build up a tolerance to this electrical charge based technology.

## Why choose Radical Waters?

Quite simply, RW is the pre-eminent and most experienced supplier of this technology in the world to both the alcoholic and the non-alcoholic beverage industries.

We have the experience and technical know-how to consistently provide effective and efficient CIP regimes for the optimal productivity of beverage plants.

Radical Waters has specifically engineered the solutions in order to give extended shelf life to ECA solutions used in CIP. Additionally these solutions can be recirculated back to the holding tanks for use again.

Onsite production of ECA means that the concentrated solutions can be stored ensuring that ECA solutions are always available for CIP.

Radical Waters has spent a considerable amount of time and money ensuring that our CIP system is completely safe for use in beverage facilities. Radical Waters complies with the regulatory requirements of the FDA and the EU.

As economic and environmental pressures continue to increase, beverage plants are seeking more cost effective sanitation solutions which reduce water consumption yet provide an alternative remedy to conventional chemical disinfection.

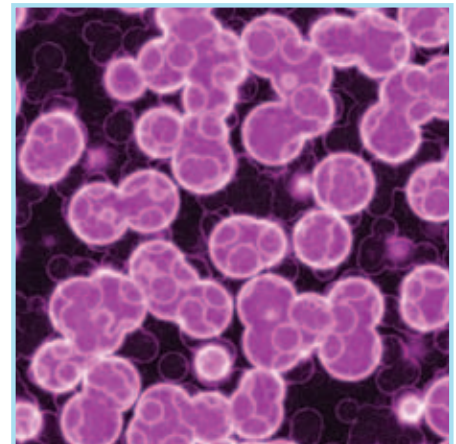
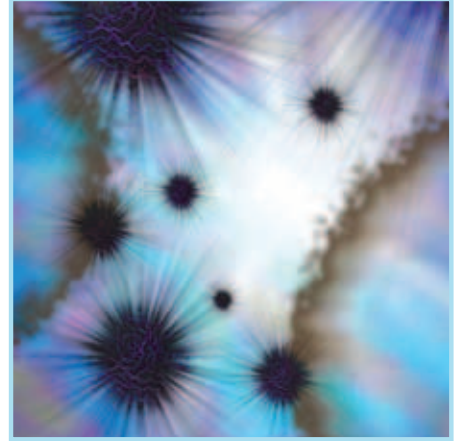
Radical Waters is proud to be able to supply our standardised, natural Hygiene Management devices on-site into the beverage industry. Furthermore our devices are manufactured under strict quality controls and comply with both European (CE) Manufacturing Standards as well as the SABS (South African Bureau of Standards). Supply into US and Asian markets also complies with local Manufacturing Standards.

Experience developed in the carbonated softdrink industry has been expanded in the brewing industry where successful trials have now lead to commercial applications.

*The core of ECA technology was developed in Russia over 30 years ago and is based on an innovative Russian design for further information please see: [www.vbinstitute](http://www.vbinstitute) and [www.radicalwaters.com](http://www.radicalwaters.com)*

*“We have not challenged this technology enough to know its limitations.”*

RW beverage customer quote



*“The System is automated to ensure CIP integrity and requires little manual intervention.”*

RW customer quote

For further information or a direct meeting with us regarding use of ECA in your facility or if you are interested in establishing a distributor relationship, please see the contact information supplied at the back of this brochure.

## CONTACT US:

### **RADICAL WATERS – SOUTH AFRICA**

1, 17 Indianapolis Street, Kyalami Business Park  
Johannesburg, South Africa, 1684  
Tel: +27 11 466 0610  
Fax: +27 11 466 0114

### **RADICAL WATERS INTERNATIONAL**

137 Brent Street, Hendon Central,  
London NW4 4DJ, England  
Tel: +44 20 8457 2912  
Fax: +44 20 8711 5384

## GLOBAL SALES DIVISIONS

Email: [info@radicalwaters.com](mailto:info@radicalwaters.com)

### **SOUTH AFRICA**

Tel: +27 11 466 0610

### **UNITED STATES**

Tel: +1 305 206 8278

### **AFRICA & MIDDLE EAST**

Tel: +27 11 466 0610

### **ASIA & OCEANIA**

Tel: +27 11 446 0610

### **LATIN AMERICA**

Tel: +56 9 798 88487

### **EUROPE**

Email: [orders@radicalwatersint.com](mailto:orders@radicalwatersint.com)

Tel: +27 11 466 0610

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