

Water savings with ECA

It is common knowledge that manufacturing requires vast amounts of water and forward thinking companies are starting to realise that good water management is key to ensure productivity advantages.

By streamlining its current traditional processes, Radical Waters can effectively reduce a company's water footprint ensuring they play their part as responsible water users and provide a total hygiene management system with water as the main player.

There are significant benefits that can be realised through becoming more water efficient. These include reductions in the following:

- **Costs**

This includes water, wastewater discharge and wastewater treatment and maintenance. Manufacturers must remember the cost of water is not just the cost of the water purchased, but also includes handling, heating, holding, treating and discharging. Water has always been a source of recontamination, but ECA technology is instrumental to offset these costs.

- **Energy consumption**

Energy and water costs are very often linked. With this system the ECA runs at ambient temperature, which reduces hot water for cleaning – resulting in added savings in heating costs.

According to Nadisha Karamchand-Tooray, technical specialist at Radical Waters, ECA is an all-natural, organic, non-toxic, non-irritant, environmentally and ecologically safe sanitising and disinfecting solution. It is produced from the electrochemical reaction of water, salt and electricity. The applications for this technology are infinite and include any process requiring a sterilising, disinfecting, cleaning or water purification facility.

'ECA is revolutionising sanitisation and disinfection in the food industry. Not

only does this product provide a green solution to help protect the world's food supply; it is in line with the public's concern over escalating food product recalls and their growing demand for the industry to move quickly to implement more safe and natural products.

'Electrochemically Activated Water (ECAW) solutions are created by mixing

salt with softened water (brine), passing the brine through a reactor where it is electrically charged, and through this process Anolyte and Catholyte are produced. Anolyte is positively charged and used as a disinfectant, where Catholyte is negatively charged and used as a detergent,' she states.

The benefits of using Anolyte in ECA

The Anolyte solution is pH neutral and features high ORP (Oxidation Reduction Potential). This positive charge base, in conjunction with the main active ingredient Hypochlorous Acid (also found in the human body where it fights infection) is highly effective as a broad spectrum disinfectant.

It is estimated that a single ECA generator unit produces a natural medium to supply an entire facility with numerous cost-effective applications. It eliminates the need for expensive and potentially toxic chemicals and reduces the costs of purchasing, transporting, storing, preparing and using traditional chemical applications. It promotes hygiene as it reduces disease risk in treated products and increases shelf life of treated products. It breaks down bacterial biofilm in pipe systems and disinfects food processing areas and the solution is convenient as on-site generation allows the ECA Solution to be produced on demand. Anolyte can be applied as it is produced; the systems are mobile and applied directly from a validated system. □



Water efficiency leads to reduced costs and energy consumption

Radical Waters –
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