

All Things Cleaning

Two friendly streams

Goscor Cleaning Equipment's (GCE) Tennant ec-H2O technology, which converts plain tap water into an effective and efficient cleaning agent, has been a significant advance in 'green' industrial cleaning given the combination of its extraordinary effectiveness as a cleaning agent and its significant environmental friendliness. So says GCE MD Ricky Bodmer.

Electrolysis

Water-electrolysis is an age-old technology that has been used in many applications as a cleaning agent. Up until now this process has typically generated two species (streams) of water: alkaline and acidic. These streams must remain separate in order to prevent them from naturally recombining into normal tap water with each stream providing a unique set of uses and benefits, although not every application requires the use of both streams. As a result, in most applications, there is a waste-stream created during electrolysis that is simply disposed.

Radical improvement

The revolutionary ECH2O technology is a result of new and radical improvements to simple water electrolysis described above. The key is that ec-H2O allows the two streams of water - alkaline and acid - to combine and remain independently active for 45 seconds. This creates a powerful cleaning agent before recombining into normal tap water.

This has not only vastly improved the cleaning properties of water but it is also a far more environmentally friendly method of cleaning. With no chemicals added, the water remains uncontaminated.

It is important to note, however, that there are some applications where the use of chemicals is still necessary but, in these cases, ec-H2O can be applied during rinse cycles, which are crucial in removing chemical residue build-up. The significant advantage is that the rinse cycles also act as cleaning cycles as, even though there are no chemicals, ec-H2O cleaning is taking place.

So, even when chemicals must be used, the ec-H2O process reduces re-soiling, extends the periods between cleaning, saves chemicals costs and reduces the impact on the environment.

For more information please contact Goscor Cleaning Equipment on 011 393 1413



Gone are the days of the good old mop and broom. Industrial cleaning is an increasingly sophisticated business with many products aimed at the specialist cleaning and recycling challenges which abound in industry and warehouses.

Supply Chain Today" set off to meet recently-appointed GCE (Goscor Cleaning Equipment) product manager, Graeme Kruger, to talk about all things cleaning and their new industrial vacuum cleaning division, which will market the products of their latest international partner, Delfin, who are based in Turin, Italy.

Graeme has been in the industrial vacuum business for a good 13 years and is one of our leading experts in the recycling and cleaning of hazardous materials. He says that the new division, apart from servicing standard industrial vacuuming requirements, provides specialist solutions for hazardous environments.

90-minute lunch hours

Graeme's introductory visit to new principal Delfin in Turin gave him a lesson in dealing with 90-minute lunch hours ("Supply Chain Today" thought this was more of a French tradition), which made him wonder how all the pasta didn't seem to affect waistlines over there. When we meet, Graeme is loyally keeping the Chloorkop June cold off with a typically stylish Italian tracksuit top from the Torino rugby club, who toured South Africa recently.

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Delfin's special application products for GCE are engineered and manufactured to order, for a wide range of customer industries. They include the high-risk organic industries. That's not just the Woolworths definition of free range eggs and cheese, but goes down a list containing pharmaceuticals (obviously, such as clean rooms), food, paper/tissue, clothing, and so on.



Graeme Kruger

Sparks and static

Graeme has experienced in his career a growing interest in solutions, particularly as European parent organisations have introduced new controls including those of safety measures in high risk areas and clean

room environs. The Atex equipment must comply with both European Union standards as well as local SABS standards before being delivered to the end user. For any company, this type of



investment is often a sort of insurance, against dangers such as sparks and static.

Many materials which oxidise can generate a dust explosion, such as coal

“Dust explosions” are often not reported. Many materials which oxidise can generate a dust explosion, such as coal. Other common materials such as maize, flour, sugar, powdered milk and pollen can also create a dangerous dust cloud. Many powdered metals can form explosive suspensions in air. A similar problem occurs in saw mills and carpentry shops. To create combustion, the dust must consist of very small particles with a high surface area to volume ratio, for instance

in bakeries and the confectionery industry, where the vacuums are used for dust extraction on production machinery and the cleaning of charred particles from ovens.

Filtration

Similarly, mobile or fixed machines can be used. In the engineering and metals industries, cleaning can be extended to the filtration and recovery of oil and coolant, and the saving and recycling of the clean liquid into machine tools. GCE has years of experience and expertise in high efficiency particulate air (HEPA) filtration techniques. The Delfin range provides the same filtration capability on its equipment should it be required for the collection of hazardous dusts and to meet clean room specifications.



Appropriate filter systems are supplied, and maintenance costs are low. GCE, together with Delfin, aims to put a solution together to suit clients' needs with a complete range of applications. Founded in South Africa, GCE (formerly known as Tennant SA) also offers a range of sweepers (available for rental) and high pressure cleaners.

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