



A strong showing for AIS products at the BIG 5 Show

Australian Innovative Systems Pty Ltd (AIS) is one of the World's leaders in disinfection of water by the process of electro chlorination. With over 30 years of experience in the industry, the company's developments are not only the world's best but in many cases the world's first.

This year's BIG 5 exhibit had a strong focus on products and services that reduce the impact on the environment. The launch of the BIG 5 Gaia Awards provided a showcase for leading green products and services.

While the financial crisis was on the lips of many contenders, for Australian Innovative Systems, this year's BIG 5 was nothing short of the utmost success. Post launching a new line of Autochlor chlorine generators the company secured a number of high profile contracts in the Gulf Cooperation Council Countries. The highlight of the event was being awarded the inaugural Gaia Award silver medal for being up to 60% more energy efficient for onsite in-line and/or on-line hypochlorite generation. Such great efficiency is achieved by new generation switch mode power supply, sensitive electronics, unique electrolytic cell design, as well as highly active anode material.

Despite their success AIS will not sit still on their laurels. Its proactive research and development team led by company directors *Kerry* and *Elena Gosse* understands that the chaotic, unpredictable nature of a global economy does have its benefits. A slowdown allows them to re-evaluate and figure out ways to do things better. Since returning to Australia from the Big 5, Australian Innovative Systems made another splash in the industry by introducing new revolutionary technology for in-line fresh water disinfection.

Using completely new technology of coating, AIS has developed unique low resistance and low activation voltage anode material. In combination with a special power supply this innovation allows generating sufficient amount of chlorine in the fresh water with Total Dissolved Solids (TDS) of 50 ppm or more.

Any water source with low TDS (ie. recycled water, drinking water, sewerage, fountain water, grey water, cooling tower water, fresh water swimming pools and spas, horse pools, food processing plants, irrigation water, chlorination of water after reverse osmosis or after desalination, etc.) passes directly through the electrolytic cell, activating the required amount of chlorine to be generated in-line straight into the passing water. The concentration of chlorine being generated into the passing water is controlled electronically via a Control Board with LCD Screen.



Autochlor

This is a solid state technology which eliminates the need to use salt as well as to accumulate, store and mechanically dose hypochlorite like it has been done with most traditional on-line systems. Less parts (i.e. storage tanks, no dosing pumps, no salt) makes this unique system smaller and lighter compared to all available fresh water treatment systems, saving the consumer money and the environment.

With most of the production happening on-site, AIS has full control over the manufacturing process. Any industry-specific modifications can be introduced and custom-built starting from special strengths anode coating, special electrode design, special power supply design and ending with incorporation of special communication protocols for the control circuits as per customer's needs. Cell module assembly with multiple electrolytic cells on a single skid can be built as large as 152 kg/hour of chlorine. All AIS equipment have high ingress protection with an active cooling system for the power supply which makes it possible to operate in extreme environments such as nearby corrosive fumes, dust, water leaks as well as poor ventilation, high humidity and +60C ambient temperature.

While final touches to the design are still being made, and a brand name is yet to be decided on, AIS is scheduled to supply its first orders for this development by mid-March 2009. ■

حققت منتجات شركة Australian Innovative Systems، الرائدة في مجال تنقية المياه بطريقة الكلورة الكهربائية، نجاحاً كبيراً في معرض BIG 5 الذي أقيم في دبي في شهر تشرين الثاني (نوفمبر) الماضي. أطلقت الشركة خلال المعرض سلسلة جديدة من مولدات Autochlor التي تنتج الكلور لأغراض المعالجة، ولاقي المنتج إستحساناً كبيراً لدى الشركات الزائرة والمتعهدين وقد أدى ذلك إلى توقيع عقود لتأمين المنتج في عدة بلدان من أعضاء مجلس التعاون الخليجي. وذلك بالإضافة إلى فوز الشركة خلال المعرض بجائزة المركز الثاني من Gaia Awards بفضل كون منتجاتها فعالة من ناحية المحافظة على الطاقة وتخفيض إستهلاكها بنسبة 60 بالمئة.

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