Lutz-Jesco exhibiting together with Technopool
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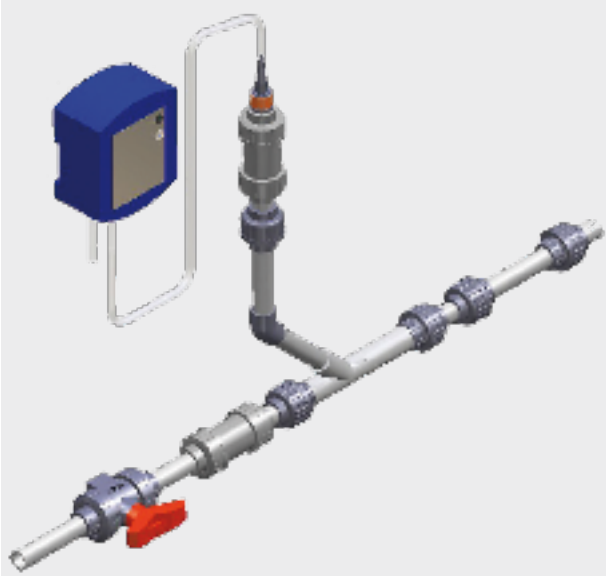
Hall 10.1, Aisle C, Stand

Allow us to introduce you to our newest solutions

JESC-O-ZON – efficient and energy-saving

Ozone is an oxygen compound that breaks down quickly. In addition to the chemical free disinfection of drink, pool and bath water or aquaria and the decomposition of volatile and organic compounds, ozone is also used in the most varied of industrial processes. It is possible to dissipate or completely mineralize numerous organics impurities, as for example viruses, into less harmful substances, as well as to oxidize inorganic substances (sulfide, cyanide), without creating any harmful by-products.



The JESC-O-ZON ozone unit works on the basis of a dielectrically impeded discharge. In this way the air drawn in is dissipated in parts to the ozone. The procedure used works in such an efficient and energy-saving way that the system works in a normal operational mode without the assistance of additional cooling, this in itself is very advantageous. The ozone unit is available with producing from 30 mg O_3 / h, whereby the ozone generator can be continuously regulated between 10 and 100 per cent.
The JESC-O-ZON units are modular in their design and by supplementing one another they create a flexible system. When combining up to six units it is possible to generate ozone up to 180 mg/h.

EASYPOOL SMART 02 – functional and effective

The control panel developed by Lutz-Jesco, EASYPOOL SMART 02, is a reliable partner in private swimming pools and Whirlpools; it is characterized by its compact and qualitatively high-value construction.
Contrary to conventional control panels the water flow and the sensor pick-ups are inside the panel. The water sampling station is very easy to operate with its two-channel controller, TOPAX DX Smart. Its functional principle is specially designed for private use.

In addition to the two hose pumps integrated in the test water panel (for fluid disinfection and pH adjustment) it is possible to use a flow electrolysis cell to produce chlorine. Furthermore an additional pump can be activated to meter the flocculation agents. The EASYPOOL SMART 02 is available in two variations to measure the chlorine / pH value and to measure the redox / pH value. A pH- and redox-electrode are available next an amperometric chlorine test cell as sensors, as well as an optional temperature gauge and a conductivity probe, too.
It is possible to calibrate the sensors directly on the test water panel via an integrated test sampling point valve. Furthermore an electric contact is also integrated to monitor the flow.
An extensive range of accessories rounds off the offer.

SALT WATER LIGHT®

Use in the Nordsehl Badewanne indoor swimming pool

Up until mid-June 2007 the pool water at the Nordsehl swimming baths has been disinfected by means of liquid metering. For this purpose the calcium hypochlorite in pellet form was dissolved by hand in a container. High safety precautions had to be observed during the dissolving process: protective- gloves, apron, goggles and respiratory apparatus were obligatory when the pungent odour of chlorine was present. This work was unpleasant, dangerous and had to be reduced.

After a consultation meeting with the responsible regional sales manager it was decided to convert to the Technopool chlorine-flow-electrolysis process. Until then the addition of chlorine was regulated by means of simple measurement and control technology. This proved to be prone to interference and did not generate satisfactory results. It was replaced by a new control panel for the automatic regulation of the auxiliary hygiene parameters.

The Technopool / Lutz-Jesco solution

As extreme caution is required when handling calcium hypochlorite and just as with the use of sodium hypochlorite (chlorine bleaching solution) it presents a significant risk of danger, it was suggested that a less dangerous alternative be used.
The „SALT WATER LIGHT“ process from Technopool Schwimmbadtechnologie GmbH is a disinfection process, which works without the use of hazardous substances as its operating resources.
The premise for this procedure is a light salt content in the pool water of approx. 0.4 per cent. The actual process of disinfection then takes place in a flow-electrolysis-cell, which is built in directly in the filter line as a bypass. Hyperchlorous acid (HOCl) is produced from the salt water as it flows through the cell, this in turn disinfects the pool water. This process is a safe procedure for disinfecting that renders a supply of chlorine products redundant and eliminates any kind of accidents with chlorine.
The light salt content of the water produces a soft feeling that it is pleasant to the skin – the skin does not dry up as the water has an almost isotonic salt content. The usual “chlorine smell” is a thing of the past.
The parameters of the free chlorine, pH-value, redox tension, salt content and temperature are all measured via the integrated water sampling station EASYPOOL with TOPAX DX from Lutz-Jesco. The TOPAX DX controls the electrolysis cell to regulate the chlorine content and a dosing pump MAGDOS LT to regulate the pH-value. On the pressure side, the multi-functional valve, PENTABLOC, ensures a safe dosing via an SAH model injection point. This injection point can be easily removed and re-installed for maintenance purposes when the unit is running.
The salt is added by hand directly into the swimming pool after the refill of fresh water.

Conclusion from operator

Rolf Wöbbeking (1. Chairman of the Nordsehl Indoor Swimming Pool Promotion Association): „Switching to Technopool’s procedure has been a success for us. We are spared from ever working with hazardous chemicals again. The unit is simple to operate and the technology runs smoothly. Our guests compliment us on the pleasant, silky-soft feel of the water and the absence of the smell of chlorine. The quality of the water has clearly improved. The Public Health Authorities certified this to us, too.“

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