



Atlantis in Ljubljana: aquatic attractions in a perfect atmosphere – made by Sauter.

The new aquatic park in the Slovenian capital of Ljubljana opened its doors in April 2005, after less than 16 months of construction work and investment of over 25 million. It is part of BTC City, where 18 million visitors a year make it the largest shopping, cultural, leisure and entertainment complex of its kind in Europe.

Managing the project was Dr. Rudolf Wienands, a professor at the University of Munich, assisted by a team of Slovenian architects. The entire aquatic park covers an area of 20,000 m², three-quarters of which is under cover. There are fourteen pools with a total water surface of 1800 m²; the park as a whole is subdivided into three connected thematic zones: 'Children's World', 'Thermal Temple' and 'Sauna Land'.

Sauter wins an order with a long-term view

During project negotiations, Marjan Koscak, Manager of Sauter Automatika, persuaded BTC's technical director, Marko Zehelj, of the benefits to be reaped from co-operating directly with the supplier of the building management system. The principal factors in favour of such a re-

lationship were: (i) Sauter's expertise with implementation and system configuration, ensuring that specifications and operational requirements would be met; and (ii) the guaranteed increase in value for the project and the ability to keep running costs (for energy and maintenance) well under control.

Exact project planning – a case for CASE

Having landed the order to plan and implement the management system, Sauter initiated a project study and began CASE programming (CASE Prj and CASE FBD). This would ensure that all data, schematics and programs associated with the project were duly documented, archived, and available for optimisation later on. The order also involved co-ordi-

nating the companies who were putting the park's mechanical and electrical systems into operation and working on technical equipment for the swimming pools. Sauter was likewise responsible for getting all the installations up and running in co-operation with partner companies, and training operations and maintenance personnel at the park.

Sauter systems for convenience and operational safety

Visitor convenience and safety are top priorities at a bustling leisure complex like the Atlantis – and Sauter saw to it that the aquatic park was ideally equipped.

Proven Sauter technology at all levels

Sauter peripheral equipment makes up the entire field level of sensors and control units. Operating at the automation level are 22 nova106 (EYU 109) modular automation stations, 33 EYY 164 field modules, and 30 EYR 203 and EYR 207 universal controllers, along with a nova230 compact station to run the M-bus interface and an EYS 181 F001 card for EMAX functionality. Management-level monitoring uses EY3600 novaPro visualisation software configured for 4000 addresses and 8 workstations.

The Atlantis aquatic park is spectacular in itself, and is a further demonstration of Sauter's virtuoso control over the elements.

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Project facts

- Heating, ventilation, air-conditioning:-
- 14 air-conditioning plants, 8 with dehumidification and heat recovery for the pools, and 6 with free cooling
 - Heat generation and distribution for swimming pools and buildings (under-floor heating and radiators)

Domestic hot water:-

- Hot water generation, supplies to showers and kitchens

Swimming pools:-

- Water supplies to 14 pools, filtration and regulation of the water circulation system

Energy management:-

- Control of over 95 lighting circuits
- Energy metering and electrical mains control (EMAX)
- Monitoring of the emergency power system (UPS, back-up generator and batteries)

