

An excellent display of teamwork in the football stadium

For fans of the local football club in the Slovakian town of Trnava, an award-winning, newly-built stadium is a great cause for celebration. The stadium itself however has even more to offer. From the shopping mall to the under-pitch heating, an integrated automation solution from SAUTER ensures intelligent collaboration of all HVAC systems in this multifunctional building

The Štadión Antona Malatinského in Trnava has a long history of hosting football matches. Games had been played there for almost a century when the decision was taken to build a new stadium. Between 2013 and 2015, and at a cost of 80 million euros, a multifunctional football stadium – seating capacity 19,000 – was built on the existing site at the centre of the historical old town. The complex contains restaurants, offices, a multiplex cinema and a shopping centre that attracts more than 16,000 visitors a day.

The City Arena is the most modern football stadium in Slovakia and meets the high standards set out by UEFA and FIFA. In recognition of its modern design, the Slovak Chamber of Civil Engineers named it "Building of the Year", while the national association of construction companies recognised its high quality design and construction work.

The stadium has an impressive appearance and employs state-of-the-art technology to allow the building to be used efficiently for a variety of purposes – all under one roof. With its attractive tender and



expertise in providing systems for sports facilities, SAUTER successfully secured the contract for planning and implementing the building automation in this challenging environment.



Every corner connected

A finely tuned system of components from the SAUTER EY-modulo 5 range ensures that heating, ventilation and cooling are used only when needed, can be monitored easily and optimised in terms of energy efficiency. This means that the operators of the City Arena can be certain that the installations interact as effectively as possible.

The HVAC installations are integrated in a BACnet/IP network with approximately 10,000 data points. The modular automation stations (SAUTER modu525) and compact stations (SAUTER modu521) fitted in the City Arena regulate, in particular, the use of multiple energy sources for demand-led heating and cooling. The new building is heated by 13 heat pumps and by district heating from the municipal plant, which is connected via two heat exchangers. In the summer months, heat pumps and cooling compressors ensure comfortable and refreshing temperatures in the building.

Always deploying the best tactics

The system draws on energy sources to suit the time of year, the weather and the tenants' individual needs, increasing operating efficiency where possible. Planners also included meters in SAUTER's complete solution to monitor heating, cooling, water temperatures and electricity usage. This data allows resources to be consumed economically.

The building owner required a multifunctional stadium which satisfied the demands of the various clientele and football fans. The integrated building automation system from SAUTER is the main player and ensures perfect conditions for unforgettable experiences – assisted round the clock by a building services team to ensure energy-efficient operation.

