
Sporty pumps at SAP Arena, Mannheim

THE SAP ARENA, OPENED IN SEPTEMBER 2005 IN MANNHEIM, IS ONE OF THE MOST MODERN SPORT AND EVENT VENUES IN EUROPE. THE BUILDING IS A HUGELY VERSATILE MULTIFUNCTIONAL ARENA: AS WELL AS ICE HOCKEY AND HANDBALL GAMES, THE PROGRAM INCLUDES CLASSICAL MUSIC CONCERTS, MUSICALS AND LARGE CONFERENCES HELD BY LOCAL COMPANIES. QUICK AND EASY CONVERSION FROM AN ICE STADIUM TO A HANDBALL PITCH, A CONCERT HALL OR A THEATRE STAGE IS MADE POSSIBLE THANKS TO STATE-OF-THE-ART TECHNOLOGY. DANIEL HOPP, MANAGING DIRECTOR OF THE SAP ARENA IN MANNHEIM: "WE CAN RECONVERT THE ARENA WITHIN AROUND 12 HOURS -THAT MEANS WE CAN HOLD COMPLETELY DIFFERENT EVENTS IN THE SAME WEEKEND."

THE SITUATION

While in these kinds of contracts the main contractor selects the best technology supplier, the investor still has a say in the matter. As Hopp says, "we want to operate economically without disregarding the need to protect the environment and save resources." The investor, who will also run the Arena for 30 years, has paid careful attention to the issue of operating costs. This coincides well with the company philosophy of Imtech Deutschland GmbH, responsible for practically the entire building services for the SAP Arena project. The company sees itself as a partner for complex building services and integrated project management. "We optimise working processes in line with customer goals. As the main technical service provider we can reduce interfaces to a minimum and reconcile the functions of all systems to the last detail," explains Intech project manager Heiner Daniels. And he adds: "When optimising

TOPIC:

Grundfos pumps in the SAP Arena

LOCATION:

The SAP Arena, Mannheim

COMPANY:

Grundfos

technical systems we concentrate on type of use, duration of use and investment and operating costs."

THE GRUNDFOS SOLUTION

These considerations also played a key role in the selection of the pump supplier, as Heiner Daniels explains: "We decided on Grundfos for this project because this manufacturer offers a complete range of pumps for building services. It also makes sense to single-source all units from the perspectives of technological compatibility and subsequent maintenance." Grundfos pumps were chosen for the water supply (pressure boosting), heating, refrigeration and air conditioning systems.

THE OUTCOME

And -in accordance with the requirements of the investor and future SAP Arena operator -particular attention was paid to low energy costs and seamless integration into the central monitoring system. All the main pumps in the heating and refrigeration sectors are connected via LON-Bus to the central process control system which monitors them for faults. The main pumps are otherwise each equipped with a frequency converter and are speed-controlled so that they operate in the optimum output range at all times. According to Heiner Daniels: "This results in enormous energy savings compared to unregulated units. Speed-controlled pumps also simplify the overall network. We do not need expensive control valves and hydraulic adjustment is far more straightforward." The project manager is also satisfied with the service and advice given by this pump manufacturer and particularly welcomed its support in designing the pressure booster.

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