



Customised edge computing solutions in the healthcare sector

SCHÄFER IT-Systems offers decentralised IT infrastructure solutions for various application areas in the field of edge computing. The individually configurable micro data centres ensure a highly available IT infrastructure at the point of data creation. This makes edge computing an attractive solution in hospitals. We offer you the best solution for challenges such as limited space availability, a lack of qualified personnel for installation or assembly during operation.

The advantages for you

- **Tried-and-tested individual components**
- **Customised to your needs**
- **Sampling at the Betzdorf plant**
- **Made in Germany mounting**
- **Comprehensive project support**
- **Personal contact persons**
- **Resource-saving, efficient water cooling**



www.schaefer-it-systems.com

Successful IT infrastructure at Hermann-Josef Hospital Erkelenz

The Hermann-Josef Hospital in Erkelenz has 409 beds under private ownership. The teaching hospital of RWTH Aachen University has various specialist departments in which a large number of patients are treated on a daily basis. Due to advancing digitalisation and the demand for high-performance and future-proof IT infrastructures, a new solution had to be found for clinical data operations. The decision in favour of a customised edge computing solution from Schäfer IT-Systems was made due to high data availability and the desire for efficient data management. At the same time, low latency times and the protection and processing of sensitive patient data were decisive factors for the micro data centre solution at HJK Erkelenz.



IS-1 Edge Row Type 4 four-cabinet system with two SideCoolers from SCHÄFER IT-Systems mounted in a row.



Rear view of the IS-1 racks with cable tray and outlet boxes at the top.



The centrepiece of the system: Technology rack with Powerbox and UPS system from SCHÄFER IT-Systems.



Rear view of the technical rack with on-site supply cable, outlets to the busbars and SCHÄFER Smart PDUs.

The solution

Rack	Cooling	Power	Monitoring	Security	Service
<ul style="list-style-type: none"> IS-1 server cabinet 800 x 1,200 x 2,000 mm Individually configurable Integrated cable management 	<ul style="list-style-type: none"> SideCooler Enterprise Cold water 300 x 1,200 x 2,000 mm, 30 kW with five fan modules 	<ul style="list-style-type: none"> Fail-safe online UPS with 30 kW output and 15 mins autonomy time incl. battery modules IT-Power iFlex redundant PDUs with 3 x 16 A and 230/400 V Roof busbars for efficient power distribution to the individual racks Powerbox with selective individual fuse protection, RCM and bypass switch 	<ul style="list-style-type: none"> Rack monitoring 842+ with 12 potential-free digital inputs, temperature, humidity, door contact, leakage and vibration sensors for comprehensive system monitoring 	<ul style="list-style-type: none"> Rack-Sens fire-extinguishing system with NOVEC 1230, 4.4 m³ extinguishing volume and extension kit for Edge Row type 4 e-lock stand-alone locking system with RFID cards 	<ul style="list-style-type: none"> Delivery and insertion Installation and connections Commissioning Maintenance and warranty Spare parts management