



# Efficient backup data centres in companies as an edge computing solution

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. For this reason, edge computing is a sought-after solution for companies from various industries. We offer you the best solution for challenges such as rising energy costs, a lack of qualified personnel for planning, implementation and maintenance or installation during operation.



[www.schaefer-it-systems.com](http://www.schaefer-it-systems.com)

## The advantages for you

- Tried and tested components in a closed system
- Redundancies ensured in the hybrid IT infrastructure
- Maximum IT availability for critical processes thanks to hybrid IT set-up (main and backup data centre)
- Simple on-site installation of the prefabricated solution
- Redundant cooling solution for maximum availability
- Individual handover and familiarisation with the system
- Resource-saving, sustainable water cooling

# Efficient, climate-friendly IT infrastructure in the new office building

KLEUSBERG GmbH & Co KG, with 13 locations and around 1,400 employees, provides its customers with customised solutions for flexible room systems, modular construction or mobile rental buildings. Increased demands on the efficiency of systems and the ongoing digitalisation of processes make it necessary to realign the company's IT infrastructure. With its modular expandability, the efficient edge computing solution from SCHÄFER IT-Systems ensures a highly available IT infrastructure and enables a hybrid IT set-up. The processing and protection of internal data and systems, combined with the simple on-site installation, tipped the scales in favour of the individual micro data centre solution.



Overhead cable trays with outgoing boxes and busbars.



Technology rack in the construction phase with UPS system and battery pack from SCHÄFER IT-Systems.



IS-1 four-cabinet system with redundant, in-line SideCoolers CW.



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

## The solution

Rack	Cooling	Power	Monitoring	Security	Service
<ul style="list-style-type: none"> <li>IS-1 server cabinet 800 x 1200 x 2000 mm</li> <li>Individually configurable</li> <li>Cable trays routed on the roof ensure organised cable management</li> </ul>	<ul style="list-style-type: none"> <li>SideCooler Enterprise refrigerant natural cold water</li> <li>300 x 1200 x 2000 mm</li> <li>8 fan modules with an output of 0.20 kW each</li> <li>Modular and redundant design</li> <li>Closed cooling architecture</li> </ul>	<ul style="list-style-type: none"> <li>Fail-safe online SV with 30 kW power and 15 mins autonomy time</li> <li>12 redundant PDUs iFlex with 3 x 16 A and 230/400 V AC</li> <li>Busbars incl. junction boxes for power distribution on the roof</li> <li>Powerbox with selective individual fuse protection, RCM and bypass switch</li> </ul>	<ul style="list-style-type: none"> <li>Rack monitoring RMS 442 with 12 potential-free inputs, temperature, humidity and door contact sensor</li> <li>Extension unit for comprehensive system monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Rack-Sens fire extinguishing system with NOVEC 1230</li> <li>Extension unit for Edge Row type 4+</li> </ul>	<ul style="list-style-type: none"> <li>Delivery and insertion</li> <li>Installation and connections</li> <li>Commissioning</li> <li>Maintenance and warranty</li> <li>Spare parts management</li> </ul>