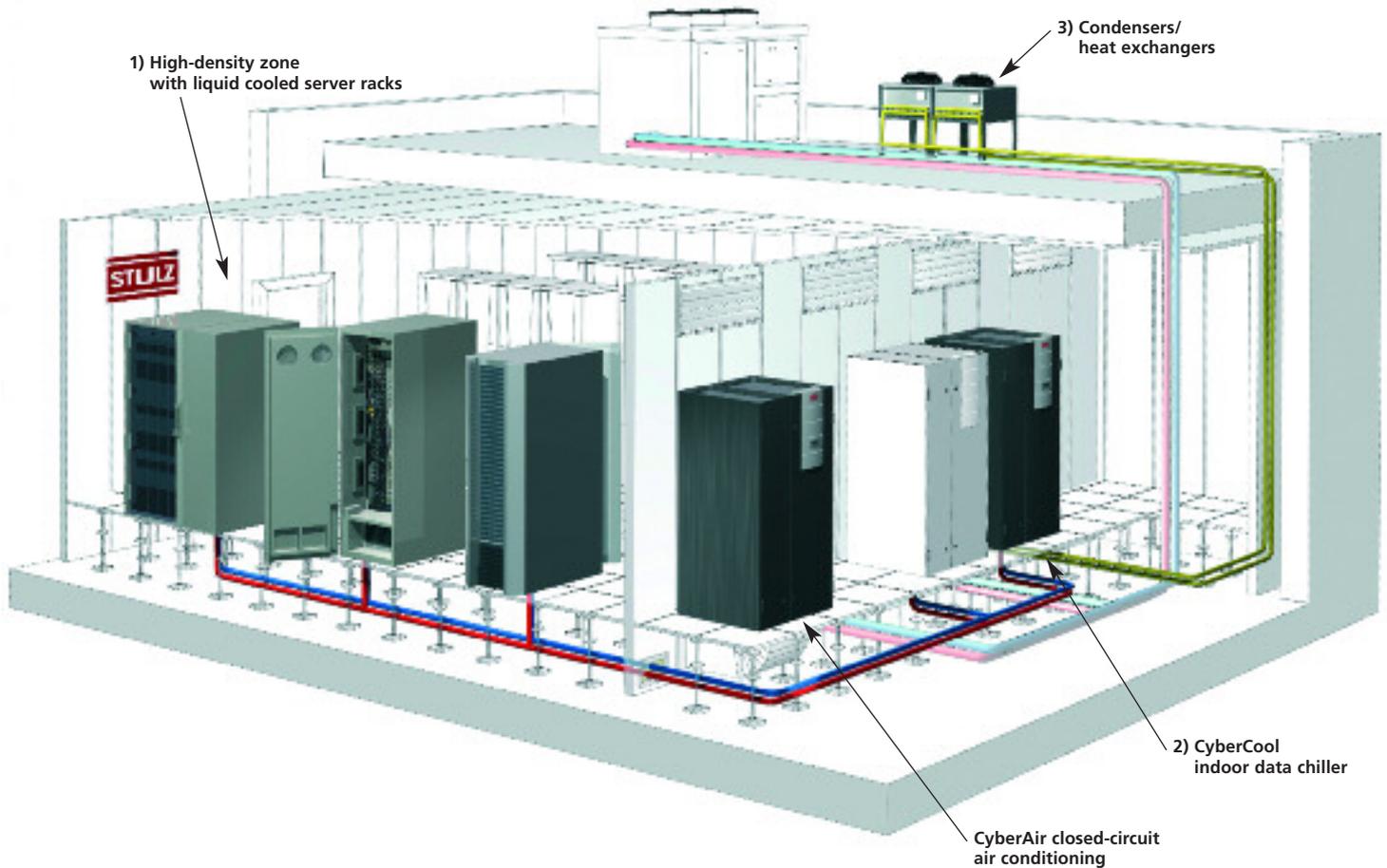


STULZ the natural choice

**STULZ provides a safe infrastructure for liquid cooled server racks**





## Liquid cooling in the data centre? Play it safe with STULZ.

Modern IT and communications technology is becoming increasingly compact, faster and more efficient. Densely packed server racks frequently generate heat loads of over 30 kW per rack, which cannot be overcome using conventional closed-circuit air conditioning. Present Server racks that are liquid cooled can reliably dissipate these extreme heat loads of 30 kW or more. With STULZ liquid-cooling systems, high-density zones can be cooled safely and with energy efficiency – “24/7, forever”.

### Over three decades of expertise in climate control

For more than 30 years, the name STULZ has stood for precision climate control in IT rooms and data processing centres. STULZ liquid-cooling systems have proven their worth in the cooling of mainframe computers and computer tomography devices. All over the world, STULZ precision air conditioning systems ensure optimum operating conditions and maximum availability in computer rooms.

### Safe chilled water supply

On the left of the diagram you can see the liquid cooling unit for server racks in a high-density zone (1). The CyberCool indoor data chiller (2) supplies the racks with chilled water and transfers the heat into the outside air via air-cooled condensers (3) or heat exchangers.

In the alternative shown in the diagram below, the high-density zone (1) is supplied with chilled water by a CyberCool central chiller (5) installed on the outside and a pump transfer station (4).

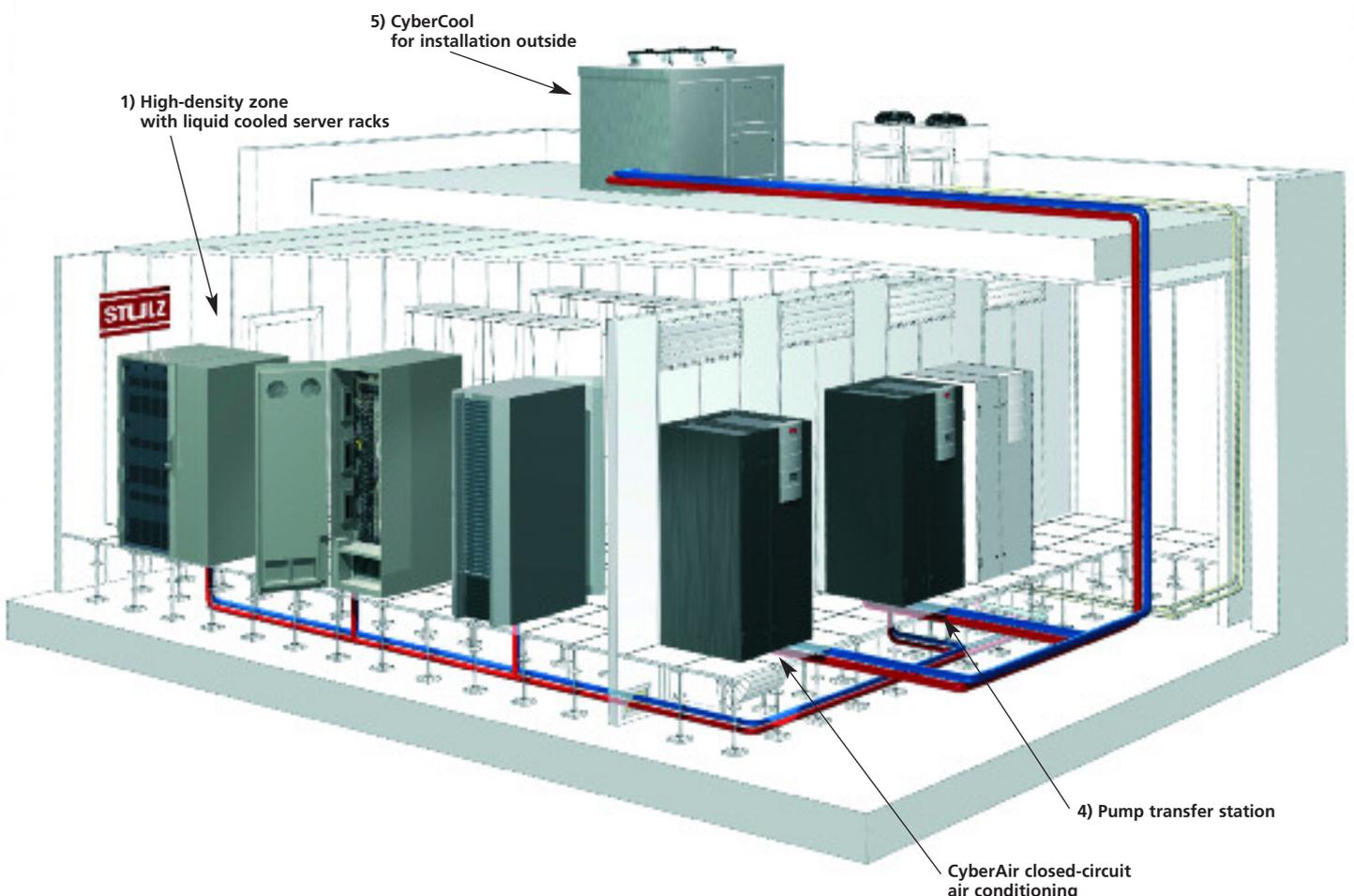
In addition, these two systems may be combined or set up in a redundant fashion, to further increase availability.

STULZ liquid cooling solutions are equipped with system separation, to minimise the required water volume and the water pressure levels in the computer room. STULZ liquid cooling systems allow for scalable planning, and therefore grow at the same pace as your future requirements. What is more, they can be integrated in existing climate control systems, reducing the heat load for the existing closed-circuit air conditioning units.

### Energy-efficient and environmentally friendly

The energy efficiency of the liquid cooling system can be further increased by the use of Free Cooling, which permanently lowers your operating costs.

A microprocessor-controlled closed-loop control system comes as standard, as does integration in all common building management systems.



# Reliable Service for minimum downtime

Through our presence in over 80 countries worldwide, STULZ offers extensive experience in system design, installation, commissioning and after sales service and support. Factory-trained and qualified service engineers provide prompt service to mission critical sites ensuring minimum downtime. Visit [www.stulz.com/global](http://www.stulz.com/global) to locate the STULZ sales & service organisation in your country.

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## STULZ the natural choice

To order your liquid cooling information package, contact your local STULZ sales office or alternatively, send an email to [cool-it@stulz.com](mailto:cool-it@stulz.com)

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