STULZ

CLIMATE. CUSTOMIZED.







CyberRack SideCooler

Rack-based CW unit for high heat loads

Compact Precision Cooling for high-performance IT infrastructures

CyberRack SideCooler is a water-cooled unit specifically designed to meet the demands of modern edge applications and micro data centers. The unit can be flexibly integrated as a space-saving closed-loop system directly between server racks or within a micro data center. This enables cooling to occur directly at the heat source.

Particularly in environments with higher heat loads, where efficient and flexible air conditioning is essential, the CyberRack SideCooler stands out with its compact design, easy integration, and high ease of maintenance – while offering a future-proof solution with a clear focus on energy efficiency.



+ BENEFITS

- Maximum cooling capacity with minimal footprint
- Energy efficient thanks to intelligent control and modern EC technology
- Universally applicable – compatible with racks from all manufacturers
- Low noise emissions due to the unit design and EC technology
- Intuitive operation of the STULZ controller with a clear menu structure and optional touch display
- High reliability and long service life for continuous 24/7/365 operation
- Various airflow concepts for maximum flexibility
- Maintenance-friendly design with local service
- Quick connections and compact design enable easy installation

+ FEATURES

- Humidity sensor for precise control of the rack environment
- More flexibility thanks to different valves: 2-way, 3-way or PIC valve – aligned to the specific system requirements
- Filter class ePM10 50% (ISO 16890)/ G4 (DIN EN 779) for open-loop units
- Hot-swappable fans

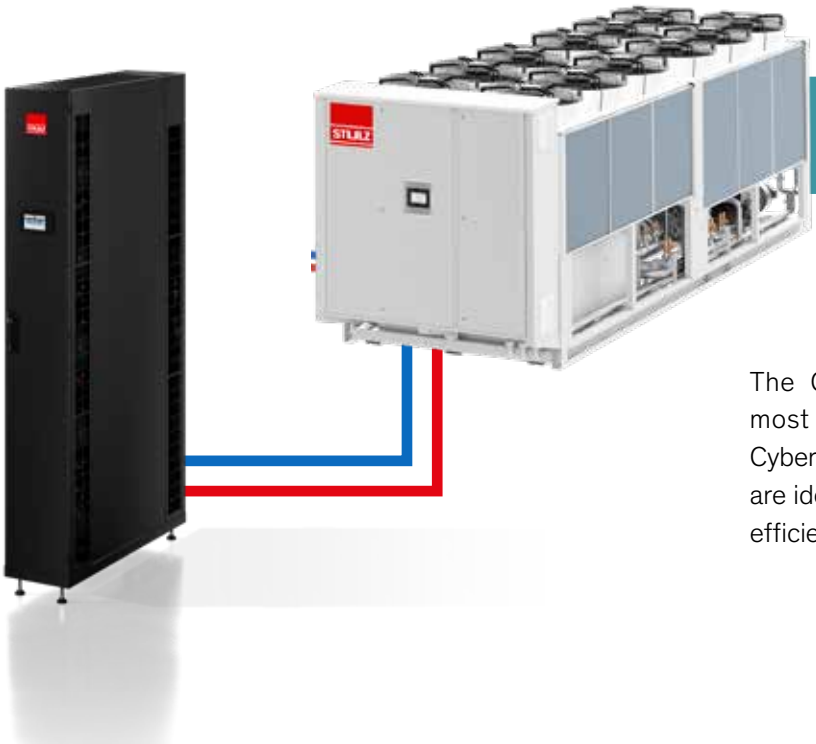
Closed-loop installation

- Delivers all cooling capacity in a closed server rack
- Targeted cooling directly in the rack enables high water temperatures and extended use of Free Cooling
- Demand-based cooling of servers at full and partial load
- No warm return air in the IT room
- No need for hot and cold aisle separation





The innovative control system uses three horizontal zones to ensure optimal air supply, always with the required airflow and supply air temperature. This prevents the formation of hot spots without energy-intensive oversupply.



STULZ CyberCool Explorer WS

The CyberRack SideCooler units operate most efficiently in combination with the CyberCool Explorer WS chiller. STULZ solutions are ideally harmonized to cool your IT systems efficiently and reliably.

Maximum reliability thanks to precise control

Thanks to its flexible and precise control, CyberRack SideCooler ensures maximum reliability during continuous operation. To meet the highest standards of reliability and usability, STULZ develops the control system in-house, ensuring that software, hardware and air conditioning units are perfectly harmonized.

Further benefits:

- Maximum reliability: Differentiated warning and alarm system
- Energy management: Helps to optimize the energy demand of interconnected systems and enables the operation of several air conditioning units in parallel across more than one machine
- Very easy to service: Plug-and-play installation and optimized control parameters for simplified servicing
- Monitoring: Start-up is simplified by direct BMS interfaces on the controller, support for all relevant BMS protocols, and a compact data point list.



Maintenance-friendly design

- All main components offer full service accessibility from the front and rear.
- The sliding E-box provides simple access to the electronics.
- Hot-swappable fans enable quick and safe replacement during operation.
- Compact design with integrated wheels and feet for easy handling.





Service close to you

- Fast service response times
- Preventive maintenance
- Trained and experienced sales and service partners in over 140 countries

Maximum flexibility

The modern unit design enables space-saving installation directly between server racks. Thanks to multiple airflow configurations, this unit series can be perfectly adapted to suit individual air management concepts.



Air discharge: front and side



Air discharge: side



Air discharge: front

Technical data

Open-loop unit, Air discharge: front and side		**CYWA52**	**CYWB72**	**CYWD02**	**CYWB42**
Cooling capacity	kW	22.7[1)]	36.9[1)]	51.0[1)]	18.1[2)]
Airflow	m^3/h	4,500	5,200	7,600	4,300
Power consumption	kW	0.7	0.8	2.6	0.8
EER		32.43	46.13	19.62	22.63
Sound pressure level	dBA	61	63	72	63
Dimensions (width × depth × height)	mm	300 × 1,200 × 1,950	300 × 1,200 × 1,950	300 × 1,200 × 1,950	300 × 1,200 × 1,950

[1)] Return air conditions: 35 °C/30 % RH; water conditions: 10/16 °C
[2)] Return air conditions: 35 °C/30 % RH; water conditions: 12/18 °C

For technical data on the following models, please contact your local STULZ sales office: Closed-loop systems, open-loop systems with side or front air discharge, unit depth: 1,000 mm.

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