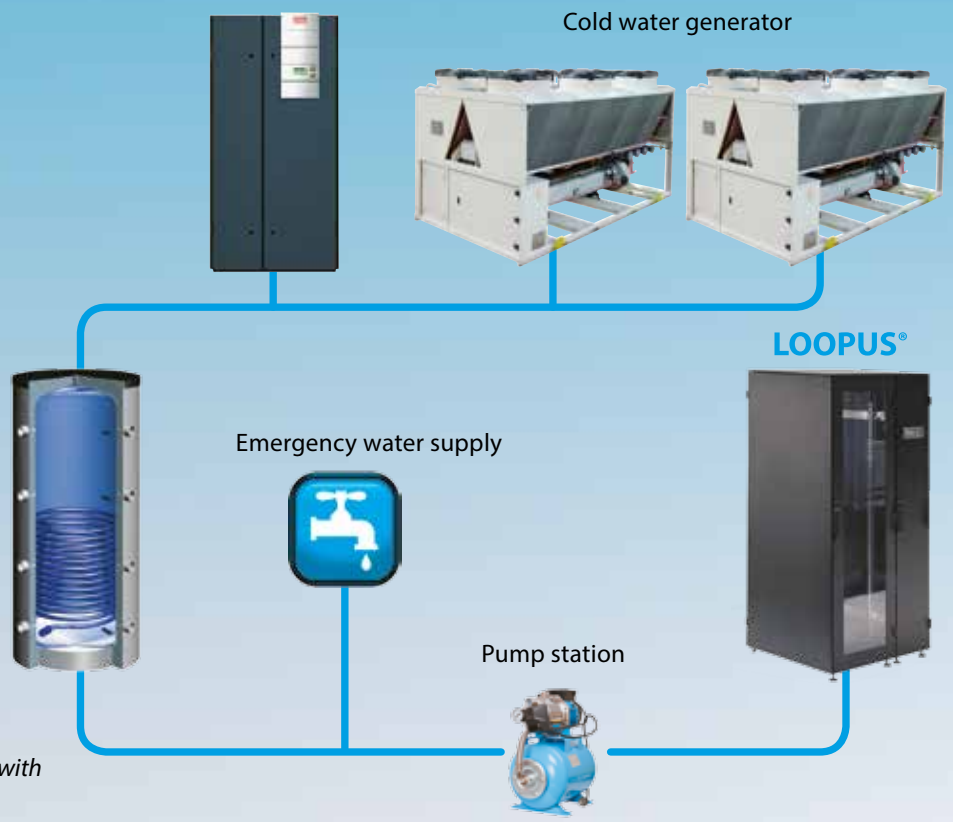
The cooling solution for maximum processing performance from SCHÄFER



LOOPUS
Closed Loop system with CLS side cooler

Basic principle of the water-cooled cycle

LOOPUS CLS + OLS Side walls	Order no. RAL 7035	Order no. RAL 9005
Side walls, screw fastened, (D x H): 1,200 x 2,000 mm, Air-inlet/air-outlet openings in side walls	506422000	506422050
Side walls, screw fastened, (D x H): 1,200 x 2,200 mm, Air-inlet/air-outlet openings in side walls	506422300	506422350
Side wall, screw fastened, (D x H): 1,200 x 2,000 mm, Solid	506744060	506744050
Side wall, screw fastened, (D x H): 1,200 x 2,200 mm, Solid	506743060	506743050

LOOPUS CLS	Order no. RAL 7035	Order no. RAL 9005
Basis: Frame, cooler, front/rear doors, solid 300 x 2,000 x 1,200 mm (W x H x D)	506421000	506421050
Basis: Frame, cooler, front/rear doors, solid 300 x 2,200 x 1,200 mm (W x H x D)	506421100	506421150

LOOPUS OLS	Order no. RAL 7035	Order no. RAL 9005
Basis: Frame, cooler, passively ventilated front door, (W x H x D) : 300 x 2,000 x 1,200 mm	506421200	506421250
Basis: Frame, cooler, passively ventilated front door, (W x H x D) : 300 x 2,200 x 1,200 mm	506421300	506421350

LOOPUS OLS Rear door	Order no. RAL 7035	Order no. RAL 9005
Rear door, (W x H): 300 x 2,000 mm, passively ventilated	506421400	506421450
Rear door, (W x H): 300 x 2,000 mm, solid	506421500	506421550
Rear door, (W x H): 300 x 2,200 mm, passively ventilated	506421600	506421650
Rear door, (W x H): 300 x 2,200 mm, solid	506421700	506421750

Plinth	Order no. RAL 7035	Order no. RAL 9005
100 x 1,200 mm (H x D)	506312000	506312050
200 x 1,200 mm (H x D)	506312200	506312250

The customer must provide pipe work and a cold water generator

LOOPUS – high efficiency, water-based side cooler solution for server racks

LOOPUS
CLS side cooler

LOOPUS
OLS side cooler

Cooling Unit Features

1 cooling unit (self-supporting, insulated housing) consisting of:

- 1 high-capacity heat exchanger
- 1 electrically actuated valve
- 5 fans (electronically controlled – 5 or 3 fans possible)
- Integrated SNMP interface

Technical Features

- Maintenance during operation
- Fan operated from front, exchangeable

LOOPUS
OLS side cooler

Please note: *The customer must provide pipe work and a cold water generator*

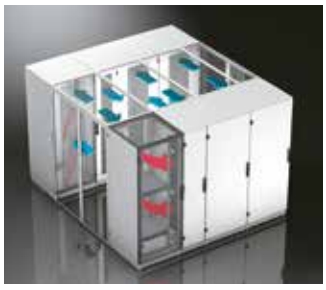
Technical data Cooling Unit

Operating voltage	230 volts
Power consumption	915 Watt
Input current	4 A
Spread chilled water	12/18° depending on type
Max. air capacity	4,000 m^3/h
Air supply temperature to server	21° C – 25° C
Water connection for heat exchanger	1" internal thread (from below)
Connection for condensate tray	hose connection
Pressure loss (water-side)	1 bar max. (inc. 3-way valve)
Operating pressure heat exchanger	10 bar
Coolant	water (optional: glycol mixture)

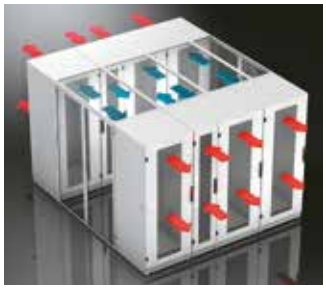
Accessories	Order no.
SNMP interface (network connection)	**6430100**
System cable	**6430200**
Splitter	**6430300**
Hose connection set (2 pieces)	**6420270**

Light grey RAL 7035 *Black RAL 9005*

Closed Loop System Cooling with water-cooled CLS side cooler

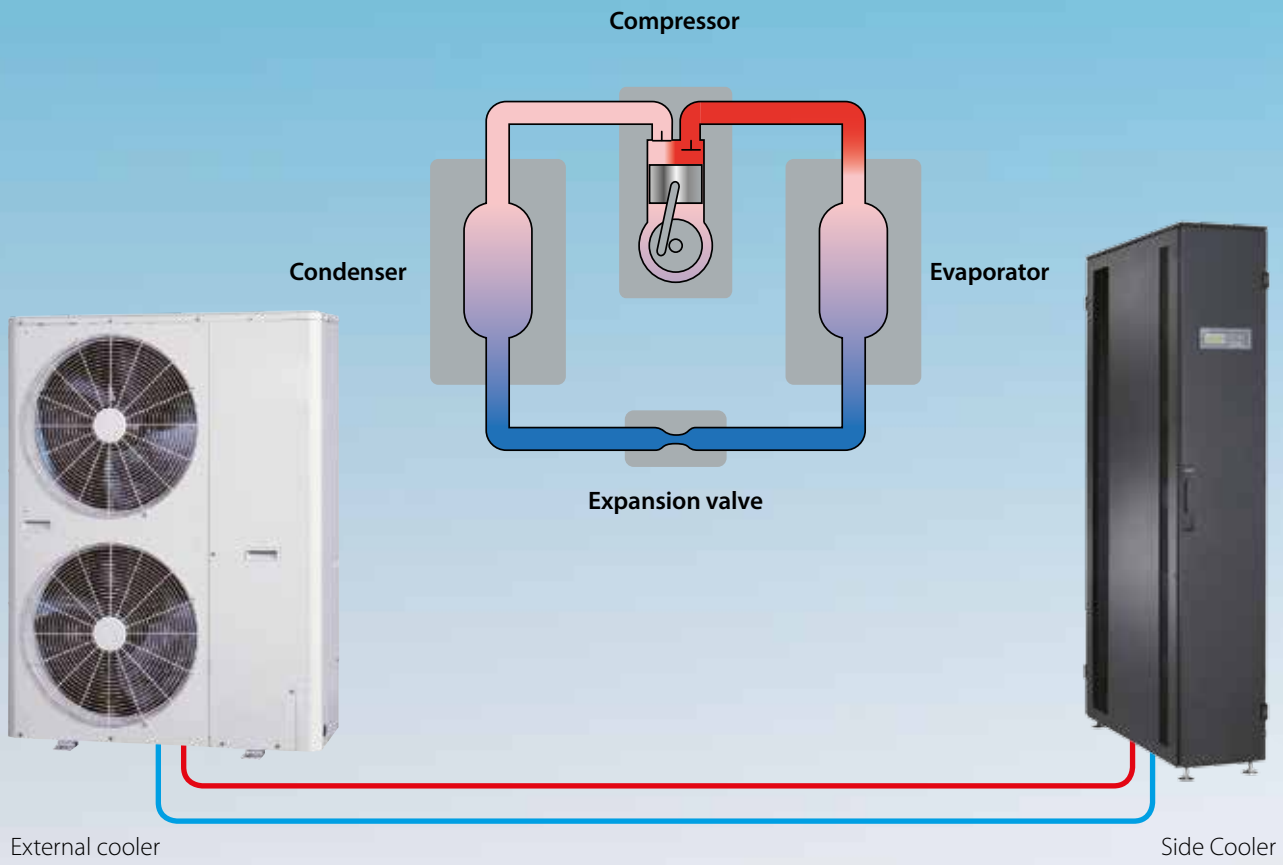


Closed Loop System with Cold Section: cooling with water-cooled OLS side coolers



Open Loop System with Cold Section: cooling with water-cooled OLS side coolers

LOOPUS DX – coolant-based server cabinet solution with side cooler



Compact, coolant-based side coolers are integrated into the rack rows, cooling either one individual rack or the cold aisle of a rack row. The heat transfer fluid (coolant R410A) is circulated in a cycle (see diagram above). Driven by a compressor, it absorbs thermal energy from the rear of the server and passes it on to the external cooler unit via an evaporator. The system is available as an open (Open LOOP) or closed air circuit (Closed LOOP) and suitable for use in smaller server rooms. Heat dissipation capacities of up to 20 kW are possible.

The coolant-based cooling system (DX) is used when entire systems require effective cooling capacities of approx. < 50 kW.

For reasons of economy, the water-cooled solution (CW) is only used when the effective cooling capacity for the entire system exceeds > 50 kW.

LOOPUS (DX) coolant-based on request