

Liquid Cooling Package



Accessories for LCP Page 433 Chillers for IT cooling Page 441 Network/server enclosures TS-IT Page 92

Benefits:

- Maximum energy efficiency thanks to EC fan technology and IT-based control
- Minimal pressure loss at the air end, which in turn minimises the power consumption of the fans
- Optimum adaptability due to dynamic, continuous control of the cold water volume flow
- By using high water inlet temperatures, the proportion of indirect free cooling is increased, which in turn reduces operating costs
- Targeted cooling output thanks to modular fan units
- Fan modules configurable as n+1 redundancy
- Standard 3-phase connection for electrical redundancy

- With redundant temperature sensor integrated at the air end as standard
- The separation of cooling and rack prevents the ingress of water into the server enclosure
- Up to 55 kW cooling output on a footprint of just 0.36 m²
- Minimal area load due to low weight

Functions:

The hot air is drawn in from the room or hot aisle at the rear of the device and expelled at the front into the cold aisle after cooling. The LCP achieves maximum performance and efficiency in conjunction with Rittal cold aisle containment. With this product, a raised floor is not necessary.

Monitoring:

- Monitoring of all system-relevant parameters such as server air intake temperature, server waste air temperature, water inlet/return temperature, water flow, cooling output, fan speed, leakage
- Direct connection of the unit via SNMP over Ethernet
- Integration into RiZone

Temperature control:

- Linear fan control
- Two-way control valve

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Cooling medium:

- Water

Optional:

- Various sensors
- Racks 2200 mm high

Technical details:

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

LCP Inline CW

Model No.	Packs of	3311.530	3311.540	3311.560	Page
Total cooling output/Number of fan modules required kW		10 / 1 20 / 2 30 / 3	18 / 2 27 / 3 30 / 4	40 / 4 45 / 5 55 / 6	
Number of fan modules in supplied state		1	2	4	
Width mm		300	300	300	
Height mm		2000	2000	2000	
Depth mm		1200	1200	1200	
Installation in bayed enclosure suite		Set forward	Flush	Set forward	
Rated operating voltage V, ~, Hz		230, 1~, 50/60 400, 3~, 50/60	230, 1~, 50/60 400, 3~, 50/60	230, 1~, 50/60 400, 3~, 50/60	
Type of electrical connection		Connector	Connector	Connector	
Air throughput at max. cooling output m ³ /h		4800	4800	8000	
Fans may be exchanged with the system operational		■	■	■	
EC fan		■	■	■	
Permissible operating pressure (p. max.) bar		6	6	6	
Duty cycle %		100	100	100	
Water connection		1½" external thread	1½" external thread	1½" external thread	
Water inlet temperature °C		15	15	15	
Weight as delivered kg		214.0	221.0	235.0	

Accessories

Fan module	1 pc(s).	3311.011	3311.011	3311.011	434
Touchscreen display, colour	1 pc(s).	3311.030	3311.030	3311.030	433
Connection hose, bottom and top	2 pc(s).	3311.040	3311.040	3311.040	433
Add-on cover	1 pc(s).	3301.421	3301.421	3301.421	433
Rear adaptor	1 pc(s).	3311.080	–	3311.080	433