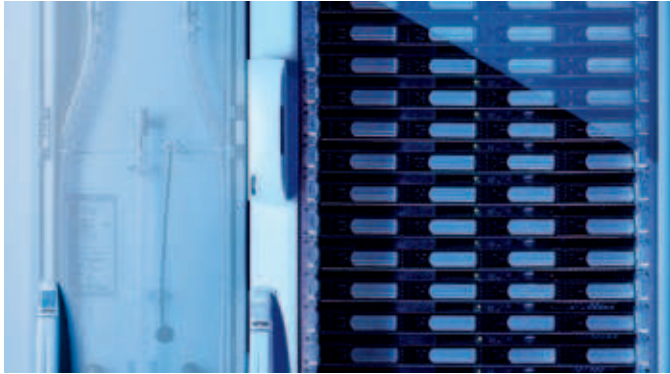


Rittal Liquid Cooling Package



Modular climate control concepts – to your specific requirements!

Rittal RimatriX5 solves the problem of climate control for high heat losses per rack with the Liquid Cooling Package (LCP) range. Extremely high heat loads are dissipated from the rack via the LCP air/water heat exchanger. Additionally, this system also allows temperature-neutral expansion of the data center.

LCP Extend



Installation while operational
Air/water heat exchanger (10 kW) to support climate control of the room. For Rittal racks, the relevant door is preconfigured in the factory and exchanged on site.

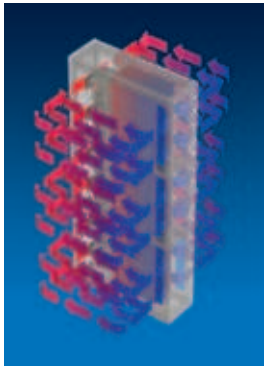


Suitable for use on any surface
The stand-alone unit may be fitted onto any suitably sized rear door (including other brands).

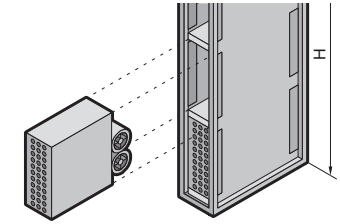


Water connection variants
Water connection either at the bottom or top. Connection to the existing cooling circuit (optionally via water/water heat exchanger) or to recooling systems.

LCP Standard



Bayable with TS 8 server racks
As the height and depth are identical, it may be bayed either in the middle of an enclosure suite or at the end, for added assembly and service-friendliness.

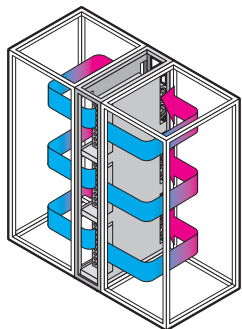


Up to 20 kW useful cooling output
The useful cooling output is achieved with a modular configuration (1 – 3 modules). Active condensate management supports inlet temperatures from 43°F to 68°F (+6°C to +20°C).



Safe insertion, simple assembly
The separation of cooling and rack prevents water from penetrating the server rack. A recooling system supplies the required cooling fluid.

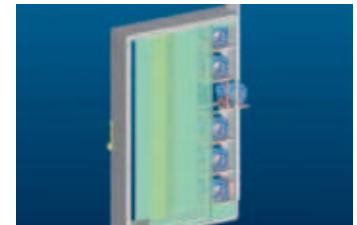
LCP Plus



Up to 40 kW useful cooling output
Useful cooling outputs of 28 kW (rack height 78.74" [2000 mm]) or 40 kW (rack height 94.49"



[2400 mm]) are achieved with 6 or 8 high-performance fans, which may be exchanged without the need for tools. Overall, the LCP Plus has been optimized for use in data



centers. Even with the enclosure doors open, e.g., during servicing work on servers, climate control is 100% guaranteed.

* Cold water chillers and water/water HX available upon request
* SNMP monitored or controllable power strips available upon request

Rittal Liquid Cooling Package



LCP Extend

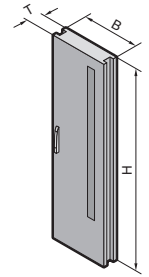
Air/water heat exchanger for retrofitting to racks while operational.

The stand-alone unit may be fitted onto any rear doors (including other brands).

For Rittal racks, the relevant door is preconfigured in the factory ready to be connected and exchanged on site.

Technical Specifications:

- Up to 10 kW useful cooling output
- Max. air volume 1767 cfm (3000 m³/h)
- Water connection either at the bottom or top



B = Width
H = Height
T = Depth



LCP Standard

Air/water heat exchanger, bayable with server racks based on TS8.

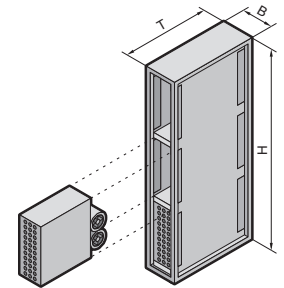
The useful cooling output of max. 20 kW can be achieved by installing additional modules.

The separation of cooling and rack prevents water from penetrating the server rack, and makes it more assembly and service-friendly.

LCPs are easy to handle (max. 6.5' [2 m]) and may be transported in lifts and through doors. The low weight means a minimal area load.

Technical Specifications:

- Up to 20 kW useful cooling output
- Max. air volume 1767 cfm (3000 m³/h)
- TÜV GS, UL/CUL, DIN 3168



B = Width
H = Height
T = Depth



LCP Plus

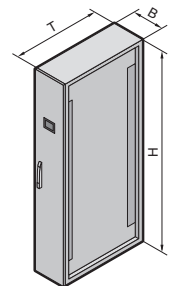
Air/water heat exchanger, bayable with server racks based on TS8. Complete unit with 28 kW useful cooling output.

The separation of cooling and rack prevents water from penetrating the server rack, and makes it more assembly and service-friendly.

LCPs are easy to handle (max. 6.5' [2 m]) and may be transported in lifts and through doors. The low weight means a minimal area load.

Technical Specifications:

- Up to 28 kW useful cooling output
- Max. air volume 2827 cfm (4800 m³/h)



B = Width
H = Height
T = Depth

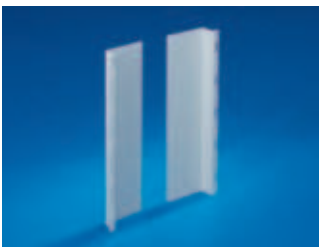
Rittal Liquid Cooling Package

Cooling

Part No.	3301.490¹⁾	3301.230	3301.420	3301.480¹⁾	on request	
Description	LCP Extend	LCP Standard		LCP Plus	LCP Plus	
Rated operating voltage V, Hz	230, 50/60	230, 50/60		230, 50/60	230, 50/60	
Dimensions in inches (mm)	B	20.47 (520)	11.81 (300)	11.81 (300)	11.81 (300)	
	H	75.20 (1910)	78.74 (2000)	78.74 (2000)	94.49 (2400)	
	D	6.30 (160)	39.37 (1000)	47.24 (1200)	47.24 (1200)	
Usable U	42	42	42	42	51	
Useful cooling output	10 kW	Up to 20 kW		Up to 28 kW	Up to 40 kW	
Rated current	2.4 A/3.0 A	3.8 A/4.4 A		9.3 A/10.4 A	Technical specifications on request.	
Pre-fuse	6 A/6 A	10 A/10 A		16 A/16 A		
Cooling medium	Water (for specifications see Internet)					
Water inlet temperature	59°F (+15°C)	43°F to 68°F (+6°C to +20°C)				
Permissible operating pressure p. max.	87 psi (6 bar)	87 psi (6 bar)		87 psi (6 bar)		
Protection category to EN 60 529/10.91	–	IP 30				
Duty cycle	100 %					
Electrical connection	Connection cable					
Water connection	3/4" external thread			1" external thread		
Weight	99 lb (45 kg)	max. 376 lb (170 kg)		332 lb (150 kg)		
Color	RAL 7035 light grey					
Air throughput of fans	1767 cfm (3000 m ³ /h)			2827 cfm (4800 m ³ /h)		
Temperature control	Fan control		Electronically controlled magnetic valve and 4-way fan control			
Additional module						
Useful cooling output 4 kW (59°F [15°C], .28 cfm [8 l/min])	–	3301.250		–	–	

Special voltages and sizes available on request. Technical modifications reserved.
 Rack heights of 88" (2200 mm) are achieved with an optional add-on cover.
¹⁾ Delivery times available on request.

For LCP Ready Cabinet, see page 18.



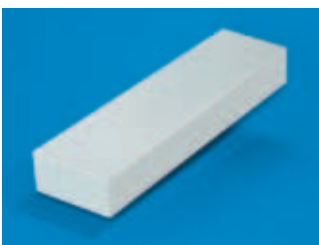
Covers

For sealing any air inlet and outlet openings of the LCP that are not required.

Material:

Sheet steel, spray finished in RAL 7035

Packs of	Part No.
2	3301.310



Add-On Cover

For height compensation with 88" (2200 mm) high racks in conjunction with the LCP (H = 80" [2000 mm]).

Material:

Sheet steel, spray finished in RAL 7035

For LCP	Part No.
3301.210	3301.221
3301.230	
3301.420	3301.421
3301.480	

Delivery times available on request.