

Data Centers – Direct Liquid Cooling Enquiry Sheet for In-Rack Manifold

General project information

Project name			
Customer			
Expected delivery date			
Project location			

Rack information

No. of racks					
No. of manifolds/rack	2	Other:			
Rack density [kW]					
Rack height	42 U	48 U	50 U	52 U	Other:
Installation configuration	Single	Double			

Operating conditions

Medium
Material safety data sheet (MSDS) attached? Yes No

Working pressure range [bar]	Min.:	Max.:
Working temperature range [°C]	Min.:	Max.:
Required flow per outlet port [l/min]		
Targeted temperature difference (Inlet/Outlet manifold)	≈ 10 °C (GF's recommendation)	Other:

Manifold design

The diagram illustrates the manifold design options. It shows a side view of the manifold with a feed port on the left and an end port on the right. Dimensions include u_0 and u_1 for the feed port connection, l_{max} for the manifold length, and ϕ for the end port diameter. Below the diagram are four selection boxes for manifold design parameters.

Feed port connection

Type
Please select your required connection type.

- QC7
- NPT
- BSPB
- Sanitary adaptor
- Other

End port type

Type
Please select your desired end port type.

- End cap
- Deventing valve
- Draining port
- Other

Geometry
Please select your desired connection geometry.

- Straight
- Bend 90°
- Other

Bend orientation
If applicable, please select your desired connection orientation.

Feed orientation

Top feed

Bottom feed

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Geometric requirements

Maximum manifold length l_{max} [mm]			
Maximum construction space [mm]	Width:		Depth:
Outer diameter d	GF's recommendation (based on rack power and flow)		Customer specified:
Quick disconnect type	Parker	Danfoss	Stäubli
	CPC	CEJN	Other:
Quick disconnect nominal diameter (DN)	03	06	07
	10	Other:	
Quick disconnect thread connection			
No. of outlet ports per manifold			
Constant distance u_1 between ports	Yes	No	
If yes, please specify u_0 and u_1 [mm]	u_0 :	u_1 :	
If no, please attach a drawing			
Further specific requirements			

Process



Your contact