

COOLING SYSTEM DATASHEET

SOETECK · LIQUID COOLING & CDUS

Soetek Rack Manifold for Cold-Plate Liquid Cooling

Stainless steel rack manifolds in 30, 40 and 50 mm profiles with quick-connect or blind-mate couplings

SKU SY-MF

Soetek



MODELS

SY-MFQ: quick...

PROFILE SIZE

30×30 mm,...

MATERIAL

SUS304 or...

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/soetek-manifold-liquid-cooling-solution



01 Product overview

The Soetec manifold is the distribution element that connects a coolant distribution unit (CDU) to the individual cold-plate servers within a liquid-cooled rack. Mounted vertically at the rear of the cabinet, it provides supply and return headers with multiple branch ports, so each server node receives coolant through short hoses and couplings.

Two connection styles are available. The SY-MFQ uses quick-connect couplings for manual connection of server hoses, while the SY-MFB is designed for blind-mate connection, where servers couple automatically as they slide into the rack. Both are offered in 30×30, 40×40 and 50×50 mm square profiles to match the flow requirements of different rack densities, and in SUS304 or SUS316L stainless steel.

Built for leak-free, balanced flow

Because a manifold sits directly beside live IT hardware, build quality matters. Soetec manufactures the manifolds in a dust-free workshop with an MES-controlled process to keep internal surfaces clean, and every unit passes both a gas and a liquid pressure test before shipment. The internal geometry is designed for uniform flow distribution, so servers at the top and bottom of the rack receive comparable coolant supply.

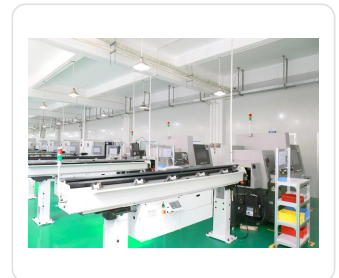
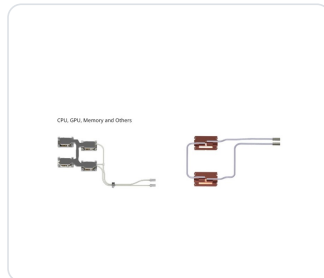
The manifolds work with ethylene glycol, propylene glycol and deionised water, and the source specification lists a material working temperature range of –180 °C to 400 °C. They are typically used with in-row or in-rack CDUs in AI, HPC and high-density enterprise racks that adopt...

KEY SPECIFICATIONS

Models	SY-MFQ: quick connect • SY-MFB: blind connect
Profile size	30×30 mm, 40×40 mm, 50×50 mm (both models)
Material	SUS304 or SUS316L stainless steel
Working temperature	–180 °C to 400 °C
Working medium	Ethylene glycol, propylene glycol, deionised water
Testing	Gas and liquid double pressure test
Manufacturing	Dust-free workshop, MES process control

HIGHLIGHTS

- SY-MFQ quick-connect and SY-MFB blind-connect versions
- SUS304 or SUS316L stainless steel construction
- Square profiles of 30×30, 40×40 and 50×50 mm
- Glycol (ethylene/propylene) and deionised water compatible
- Gas and liquid double pressure testing for every unit
- Built in a dust-free workshop under MES process control



02 Full specifications

MANIFOLD MODELS

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