

FLUID DISTRIBUTION AND REGULATION

Manifold Trolley

Commissioning manifold trolley

A high-capacity stainless steel fluid distribution system for managing liquid cooling circuits during large-scale data centre commissioning. Dual 4 in manifolds, precision flow control and digital monitoring let engineers distribute and regulate cooling fluid across multiple load banks at once.

10	500L	4 in	BACnet
Regulated outlet and inlet circuits	Fill capacity	Dual manifolds, inlet and outlet	Interface to load bank systems

KEY FEATURES

- 304-grade stainless steel frame with 4 in manifolds
- 10 regulated outlet and inlet circuits with Tri-clamp fittings
- Digital pressure sensors to measure pressure drop
- Control panel with data connectivity and alarms
- Dual manifold design: inlet on top, outlet below, for efficient distribution
- Digital flow meters on each circuit with I/O Link data collection
- BACnet interface for integration with load bank systems
- Four swivel lockable castors for mobility

APPLICATION IN DATA CENTRES

- Distribution of cooling fluids to multiple water-cooled load banks
- Integration with chilled water loops and CDU systems
- Flow regulation and monitoring through commissioning
- Temporary or permanent fluid management during thermal testing

SAFETY AND COMPLIANCE

- Digital flow monitoring with alarms for safe operation
- Anti-vibration pipe supports for stability during operation
- Butterfly valves and secure Tri-clamp connections to prevent leaks
- CE certified components, compliant with commissioning standards

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TECHNICAL SPECIFICATION

Overall dimensions	1800 mm (L) × 1000 mm (W) × 900 mm (H)
Frame	40 × 40 × 2 mm SHS, 304 stainless steel
Handle rail	1.5 in stainless tube
Top manifold	4 in manifold, 10 × 2 in outlets reducing to 1.5 in Tri-clamp, 2 × 4 in butterfly valves, 10 flow regulation valves, 10 digital flow meters, 11 digital pressure sensors
Bottom manifold	4 in manifold, 10 × 2 in inlets reducing to 1.5 in Tri-clamp, 2 × 4 in butterfly valves, 10 × 2 in butterfly valves
Control panel	I/O Link modules for flow meter data, BACnet interface, 5 m power and data lead
Mobility	4 swivel lockable castors
Weight	Empty 230 kg, full 300 kg
Fill capacity	500 L

OPTIONS

- 20 × FD83 connectors, Tri-clamp
- 20 × peroxide-cured 3 m hoses

CERTIFICATIONS

CE

Built from high-grade stainless steel for reliability and compliance with commissioning standards.