

DLM SERIES

RACK MANIFOLD

Configurable stainless-steel coolant distribution for liquid-cooled server racks.



CLEAN DISTRIBUTION / CONFIGURABLE BRANCHES

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PRODUCT OVERVIEW

Distribution inside the liquid-cooled rack

The rack manifold distributes cooling fluid to individual servers and is a core component of the rack-level liquid cooling loop. Dimensions, port quantity, hose specifications, quick disconnects, materials, and mounting methods can be configured around the rack program.

AI / HPC

APPLICATION

PG25 / EG25

COMPATIBLE FLUIDS

8 bar

MAXIMUM PRESSURE

SUS304 / 316

BODY OPTIONS

JR Cooling Technologies' DLM platform supports rapid engineering configuration across multiple physical and interface parameters. Final selections are reviewed against rack dimensions, branch count, coolant, pressure, installation route, and maintenance requirements.



PERFORMANCE FEATURES

Clean, reliable, flexible, and serviceable

- Internal cleanliness - Inert gas-shielded welding, pickling, passivation, and ultrasonic cleaning protect the server-side loop.
- Structural reliability - Stainless construction, weld inspection, and pressure testing support sealing integrity.
- Flexible architecture - Configurable ports, hoses, quick disconnects, air bleeders, drains, and top or bottom routing.
- Rapid installation - Keyhole hangers and mounting plates support efficient rack installation and service access.
- Operation and maintenance - Air bleeding and optional drain arrangements support filling, venting, and coolant service.



SCOPE OF SUPPLY

Select the integration depth

COMPONENT	BASIC	TYPE A	TYPE B
Stainless body & mounting bracket	Included	Included	Included
Air bleeder & internal rack ports	Included	Included	Included
External rack interface ports	Included	Included	Included
Quick disconnect couplings	-	Included	Included
External & internal rack hoses	-	-	Included
Drain & maintenance options	Optional	Optional	Optional

Typical assembly components

1 Body	2 External rack port	3 Internal rack port
4 Air bleeder	5 Mounting bracket	6 Drain valve
7 Quick disconnect socket	8 External rack hoses	9 Internal rack port hoses

MODEL EXAMPLES

Typical DLM configurations

PARAMETER	DLM40A010	DLM50A006	DLM50B002
Rack load	28 kW	44 kW	200 kW
Body section	40 x 40 mm	50 x 50 mm	50 x 50 mm
Rack compatibility	42U	42U	42U
Material	SUS304	SUS316	SUS304
Operating pressure	116 psi / 8 bar	116 psi / 8 bar	116 psi / 8 bar
External port	Ferrule 50.5 mm	Ferrule 50.5 mm	Ferrule 64 mm
Internal ports	16 x G3/8	18 x G3/8	20 x G5/8
Air bleeder	Ball valve	Ball valve	Ball valve
Mounting brackets	2	2	3
Drain valve	Not equipped	OD 8 mm coupling	OD 8 mm coupling
Quick disconnects	16 / UQD04	18 / UQD04	Not equipped
External hose	1 in. EPDM	1 in. EPDM	2 in. EPDM
Internal hose	3/8 in. EPDM	3/8 in. EPDM	1/2 in. PTFE

Final configuration is selected according to rack dimensions, coolant, branch count, connection standard, service access, and installation route.