PRODUCT DATASHEET

Coolant Treatment Skid for Data Centre Liquid Cooling

Side-stream filtration and dosing for coolant loops





DETAIL – FILTER HOUSINGS

OVERVIEW

The Tech Inc. Coolant Treatment Skid for Data Centre Liquid Cooling keeps the glycol coolant in liquid-cooled server halls clean and within specification. Working as a side-stream unit, it continuously draws a small share of the loop flow, filters it and doses inhibitor and glycol before returning it to the loop.

MODELS AND CONFIGURATIONS

- **TI-CTS-150** – single-loop treatment skid for a cooling loop of up to 2 MW of IT load.
- **TI-CTS-600** – hall-level treatment skid at 600 L/min, serving several loops.
- **BESS loop configuration** – the same treatment duty on battery energy storage cooling loops.

TYPICAL DESIGN DATA

Loop size	Up to 2 MW of IT load per TI-CTS-150, or to client specification
Treatment flow	Typically 600 L/min for the TI-CTS-600, or to client specification
Coolant	Water with about 25% propylene glycol (PG25), or to client specification
Filtration grade	To the cold-plate requirement or client specification
Monitoring	Glycol concentration, turbidity, pressure, flow and temperature
Wetted materials	Stainless steel
Bought-in equipment	Proven pumps and sensors from leading makers, integrated into a skid designed and built by Tech Inc.
Controls	PLC with alarm and data link to the BMS or SCADA

APPLICATIONS

AI and high-performance computing halls, direct-to-chip liquid cooling, CDU secondary loops, colocation and hyperscale data centres, and BESS liquid-cooling loops.

KEY ADVANTAGES

- **Continuous treatment** – side-stream filtration and dosing without shutting the loop down
- **Protects cold plates** – removes particles before they block fine cooling channels
- **Early warning** – inline glycol and turbidity readings flag problems before they reach the servers
- **Stainless construction** – the skid adds no corrosion products to the coolant
- **CDU-independent** – connects through side-stream tie-ins, whatever the CDU make

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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