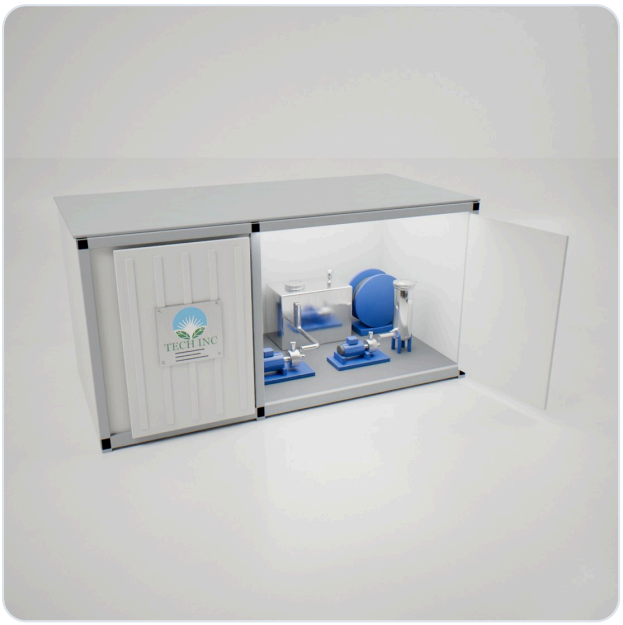
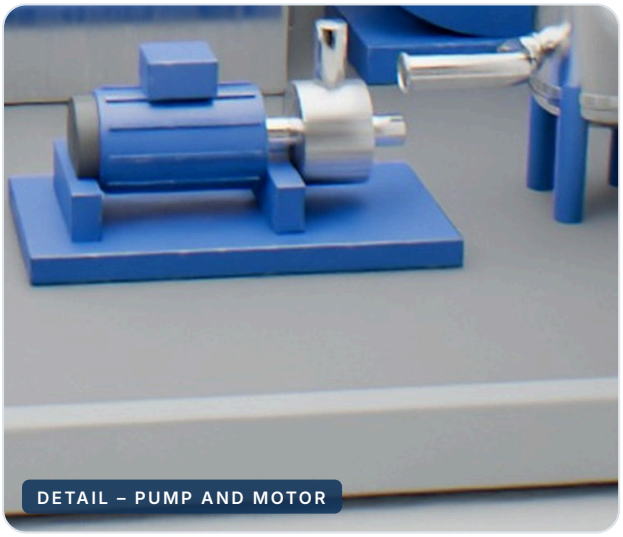
PRODUCT DATASHEET

Flush-and-Fill Rig for Liquid Cooling Loops

Flush and fill liquid-cooling loops before start-up





DETAIL – PUMP AND MOTOR

OVERVIEW

The Tech Inc. Flush-and-Fill Rig for Liquid Cooling Loops cleans freshly installed cooling pipework and fills it with coolant before start-up. The rig circulates clean water through the loop at high flow to carry construction debris out to its filters, then drains the water and fills the loop with glycol coolant, free of air.

MODELS AND CONFIGURATIONS

- **TI-FFR-1500** – containerised flush-and-fill rig for liquid-cooling loops before start-up.
- **Flush-and-fill service** – our crews bring the rig, flush and fill the loop, and hand over the records.
- **BESS coolant service** – fill, flush and filtration of battery energy storage cooling loops.

TYPICAL DESIGN DATA

Housing	Containerised, with lifting provisions
Flushing medium	Clean water, with filtration on the return
Fill coolant	Water with about 25% propylene glycol (PG25), or to client specification
Flushing flow and velocity	Sized to the loop pipework, or to client specification
Cleanliness acceptance	To the cold-plate requirement or client specification
Bought-in equipment	Proven pumps and sensors from leading makers, integrated into a rig designed and built by Tech Inc.
Records	Flow, filter and turbidity logs for each loop

APPLICATIONS

Commissioning of data-centre liquid-cooling loops, CDU secondary loops before servers are connected, re-flushing after modifications or contamination, coolant change-out, and BESS coolant fill and flush.

KEY ADVANTAGES

- **Clean start-up** – debris removed before it can reach servers and cold plates
- **Air-free fill** – degassing during fill avoids air locks and pump cavitation
- **Documented handover** – logged flush and fill data for every loop
- **Mobile** – one containerised rig moves from hall to hall across a site
- **Rig or service** – buy the rig for your own team, or use our crews

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

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