PRODUCT DATASHEET

BESS Coolant Fill, Flush and Filtration Cart

Fill, flush and filter cart for BESS cooling loops





DETAIL – FILTER HOUSINGS AND PUMP

OVERVIEW

The Tech Inc. BESS Coolant Fill, Flush and Filtration Cart serves the liquid-cooling loops of battery energy storage system (BESS) containers. Each container runs a glycol coolant loop that is filled and flushed at commissioning, then tested, filtered and topped up through its operation and maintenance (O&M) term.

MODELS AND CONFIGURATIONS

- **Fill, flush and filtration cart** – mobile cart for O&M teams and EPC contractors.
- **Commissioning fill, flush and leak test** – carried out container by container by our crews.
- **Annual coolant care contract** – coolant test, filter change, top-up and leak check on each container.

TYPICAL DESIGN DATA

Coolant	Glycol coolant, typically water with about 25% propylene glycol (PG25), or to the container maker's specification
Duties	Fill, flush, filtration, top-up and leak test
Filtration grade	To the container maker's requirement or client specification
Flow and pressure	Sized to the container loop, or to client specification
Connections	Hoses and couplings to suit the container loop
Wetted materials	Stainless steel, or to client specification
Bought-in equipment	Proven components from leading makers, integrated into a cart designed and built by Tech Inc.
Records	Fill, flush and leak-test data for each container

APPLICATIONS

Commissioning fill, flush and leak test of BESS containers, coolant filtration and top-up during O&M, coolant change-out, and utility-scale, renewable and industrial battery storage sites.

KEY ADVANTAGES

- **Leak-tight from the start** – pressure-hold testing before the container goes into service
- **Clean coolant** – filtration removes debris and particles from the loop
- **Air-free fill** – air removal avoids air locks and pump cavitation
- **Container by container** – a compact cart that moves along the rows
- **Recorded service** – fill, flush and test data kept for each container

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

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.