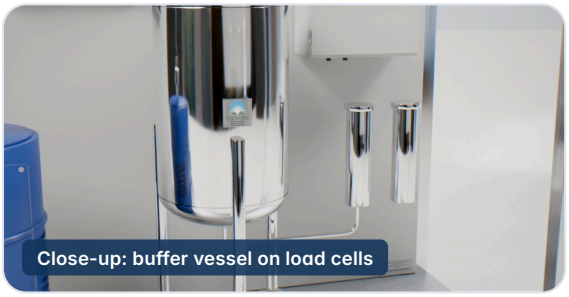
PRODUCT DATASHEET

Electrolyte Closed-Transfer and Filling Skid

Dry, closed transfer of battery electrolyte under argon or nitrogen

Product page





Close-up: buffer vessel on load cells

OVERVIEW

The Tech Inc. Electrolyte Closed-Transfer and Filling Skid moves lithium-ion battery electrolyte from drums, IBCs or ISO containers to the cell-filling machines without contact with air. Dry argon or nitrogen pushes the liquid, fine PTFE filters clean it, and load cells record every transfer.

TYPICAL DESIGN DATA

Atmosphere	Dry argon or nitrogen, dew point monitored
Wetted materials	Electropolished 316L, PTFE and PFA seals
Filtration	PTFE membrane, about 0.2 to 1 µm
Codes and standards	Pressure parts to ASME B31.3; electrics to the room classification
Leak tightness	Helium leak-tested
Weighing	Load cells with batch records
Control	PLC with interlocks and MES interface

MODELS AND CAPACITIES

- **TI-ECT-L** – lab and pilot, about 5 to 50 kg/h
- **TI-ECT-1000** – about 1,000 kg/h
- **TI-ECT-200** – about 200 kg/h
- **TI-ECT-3000** – about 3,000 kg/h, ISO container

Indicative transfer rates.

ORDERING CODE

Example **TI-ECT-200-D-F**: **200** transfer rate, kg/h (L for lab); **D** source: D drum, I IBC, S ISO container; **F** options: F filtration, W weighing, M moisture analyser.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: moisture analyser; glovebox connection; ISO-container head; exhaust scrubber; MES integration.

KEY ADVANTAGES

- **Dry and closed** – no air or moisture contact
- **Clean** – membrane-filtered electrolyte
- **Traceable** – weighed batches
- **Leak-tight** – helium leak-tested

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

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