PRODUCT DATASHEET

Liquid Radwaste Evaporator and Concentrator (Non-Safety)

Forced-circulation evaporators that concentrate low- and intermediate-level liquid waste

Product page





Close-up: evaporator body and vapour separator

OVERVIEW

The Tech Inc. Liquid Radwaste Evaporator and Concentrator (Non-Safety) reduces the volume of low- and intermediate-level liquid waste from reactor sites and research centres. Waste is heated and recirculated through an evaporator; clean condensate is recovered for treatment or reuse, and the concentrate goes on to drying or immobilisation.

TYPICAL DESIGN DATA

Evaporation rate	About 100 to 2,000 L/h
Type	Forced circulation or thermosyphon
Materials	304L, 316L or special alloys to suit the waste
Codes and standards	Pressure parts and quality plan to the client's specification; electrical to IEC 60204-1
Decontamination factor	Set by the customer specification and demister design
Operation	Local or remote, with interlocks
Classification	Non-safety-class process equipment

MODELS AND CAPACITIES

- **TI-LRE-100** – about 100 L/h
- **TI-LRE-2000** – about 2,000 L/h
- **TI-LRE-500** – about 500 L/h

Indicative evaporation rate.

ORDERING CODE

Example **TI-LRE-500-FC**: **500** evaporation rate, L/h; **FC** type: FC forced circulation, TS thermosyphon.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** concentrate dryer; shielding and remote valve operation; condensate polishing column; boric acid recovery configuration.

KEY ADVANTAGES

- **Large volume reduction** – condensate recovered
- **Built to your specification** – materials, interlocks and layout
- **Remote operation** – designed in
- **Alloy welding** – in-house

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

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