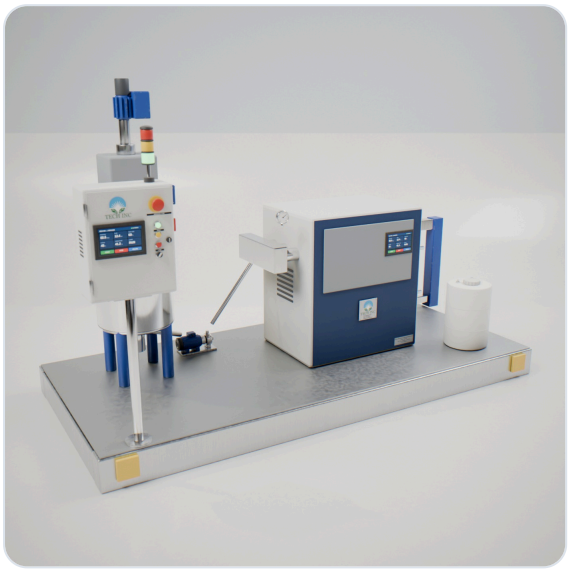
PRODUCT DATASHEET

High-Pressure Homogeniser and Liposome Skid

Homogeniser skids to about 1,500 bar for liposomal supplements, nanoemulsions and cell disruption

Product page





Close-up: homogeniser and premix tank

OVERVIEW

The Tech Inc. High-Pressure Homogeniser and Liposome Skid builds a complete process skid around a high-pressure homogeniser. The homogeniser forces the product through a narrow valve at up to about 1,500 bar, breaking droplets and vesicles down to well under a micron; the skid adds the premix tank, feed pump, heat exchangers, pressure control, clean-in-place and controls that turn the machine into a working liposome or nanoemulsion line.

TYPICAL DESIGN DATA

Pressure	Up to about 1,500 bar by homogeniser model
Throughput	About 10 to 500 L/h
Materials	316L stainless product contact
Codes and standards	Electrical to IEC 60204-1; hygienic design on request
Cooling	Product cooler after each pass
Cleaning	CIP
Control	PLC with logging

MODELS AND CAPACITIES

- **TI-HOM-20** – about 20 L/h
- **TI-HOM-150** – about 150 L/h
- **TI-HOM-500** – about 500 L/h

Indicative throughput at working pressure.

ORDERING CODE

Example **TI-HOM-150-R**: **150** throughput, L/h; **R** mode: S single pass, R recirculating.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** inline particle-size sensor; nitrogen blanketing of the premix tank; second homogenising stage; trials on customer formulation.

KEY ADVANTAGES

- **Repeatable** – pressure and passes logged
- **Hygienic** – CIP and 316L
- **Complete** – premix to cooled product
- **Proven core** – homogeniser from a specialist maker

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

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