PRODUCT DATASHEET

Liquid-Nitrogen Generator

On-site liquid nitrogen from air, about 5 to 200 L a day

Product page





Close-up: cryocooler head and storage dewar

OVERVIEW

The Tech Inc. Liquid-Nitrogen Generator makes liquid nitrogen on site from compressed air, so laboratories, clinics and breeding centres no longer depend on deliveries. A membrane or PSA unit separates nitrogen from air, a cryocooler liquefies it and the liquid collects in a vacuum-insulated dewar, ready for sample storage, cryo-grinding and cooling instruments.

TYPICAL DESIGN DATA

Output	About 5 to 200 L/day
Purity	Nitrogen to about 99.5% or better
Dewar	About 50 to 500 L, vacuum-insulated
Codes and standards	Electrical to IEC 61010; pressure parts to ASME B31.3 practice
Cooling	Cryocooler sourced from specialist makers
Power	Single- or three-phase to suit the size
Control	Automatic start-stop on dewar level

MODELS AND CAPACITIES

- **TI-LN2-10** – about 10 L/day
- **TI-LN2-30** – about 30 L/day
- **TI-LN2-80** – about 80 L/day
- **TI-LN2-200** – about 200 L/day

Indicative liquid-nitrogen output.

ORDERING CODE

Example **TI-LN2-30-160**: **30** output, L/day; **160** dewar volume, L.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: larger dewar; oxygen-depletion monitor for the room; remote monitoring; service plan.

KEY ADVANTAGES

- **Independent** – no deliveries
- **Low losses** – liquid made where it is used
- **Automatic** – tops up on dewar level
- **Scalable** – from benchtop to 200 L a day

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