LEOSMAK · INDUSTRIAL

LEO-600

Up to 600 kg per batch across 22 shelves and 176 GN 2/1 trays. The largest LEO, supplied and installed as a project and configured to your production needs.



BATCH CAPACITY	AVG. ENERGY USE	SHELF AREA
600 kg	13 kWh / h	61.49 m²

APPLICATIONS: Freeze-Dryers for Fruit and Vegetables · Freeze-Drying for Nutraceuticals & Supplements

CE marked · Built in EU

Why choose the LEO-600

- **Highest-volume industrial operations**: the largest LEO, supplied as a project.
- **Configured around your line**: designed and delivered to your production needs, and recipes proven on smaller LEO machines carry over.
- **Up to 600 kg per batch**: 22 shelves, 176 trays, 61.49 m² of shelf area.
- **Heavy-duty and automated**: industrial construction for long service life, with automatic controls that keep manual work to a minimum.

CAPACITY & OUTPUT

Batch capacity (fresh load)	**600 kg**
Ice condenser capacity	**900 kg**
Total shelf area	**61.49 m²**
Shelf size	**2 × 650 × 2150 mm**
Shelves	**22**
Trays	**176**
Shelf spacing	**50 mm**
Tray size	**GN 2/1, 2–4 cm**
Loading	**Cart, rail or robocart**

PROCESS & CYCLE

Shelf temperature range	**-35 to +70 °C**
Min. condenser temperature	**-45 °C**
Defrosting	**Automatic, Fast Defreeze (standard)**
Defrost time	**Configuration-dependent; dual ice-trap chamber available for continuous operation**

VACUUM & REFRIGERATION

Vacuum pump type	**Oil-free dry screw pump (standard)**
Refrigeration type	**Air-cooled**
Refrigerant	**R-448A**

CONTROL & MONITORING

Control system	**LCD touchscreen + Wi-Fi**
Menu language	**English**
Data logging & recipes	**Cloud admin panel: full cycle history, charts and data export · Wi-Fi app monitoring and notifications**
Remote monitoring	**Yes**

BUILD

Chamber material	**AISI 304 stainless steel**
Shelf material	**Stainless steel**
Observation	**Observation window**
Body color options	**Stainless steel**
Max. noise level	**65 dB(A) max. (DIN 45635)**
IP protection	**IP65 (DIN 60529)**

POWER & FOOTPRINT

Power supply	**400 V / 3~ / 50 Hz**
Connected load	**95 kW**
Nominal power	**80 kW**
Mains fuse	**32 A**
Energy consumption (avg)	**13 kWh/h**
External dimensions (W × D × H)	**Chamber 2000 × 3000 × 2200 mm + Main Cooling Unit 2000 × 2000 × 2200 mm**
Net weight	**7400 kg**

WARRANTY & SERVICE

Warranty	**24 months (extendable to 36)**

Recommended accessories

176× Stainless steel tray GN 2/1 20 mm for LEO-600	Fits: LEO-600
176× Stainless steel tray GN 2/1 40 mm for LEO-600	Fits: LEO-600
LEO-600 Warranty extension – 3rd year	Fits: LEO-600
AMARU Mineral oil for vacuum pump 10 L	Fits: all models
AMARU Mineral oil for vacuum pump 20 L	Fits: all models

More accessories in our online store: scan the QR code.

+34 614 332 324 team@freeze-drying.tech freeze-drying.tech

Scan for current specifications and prices, or to request a quotation.