LEOSMAK · COMPACT

LEO-004L

Up to 6 kg per batch on 7 GN 1/2 trays. Compact freeze dryer with a stainless-steel chamber that freezes and dries in one machine, with Wi-Fi app monitoring, for small-batch production and prototyping.



BATCH CAPACITY	AVG. ENERGY USE	SHELF AREA
6 kg	0.9 kWh / h	0.6 m²

APPLICATIONS: Freeze-Dryers for Fruit and Vegetables; Freeze-Dryers for Herbs, Spices and Microgreens

CE marked · Built in EU

Why choose the LEO-004L

- **Small-batch production and R&D**: for small producers who want to freeze and dry in one machine.
- **Freezes in the chamber**: radiant freezing and heating shelves, so no separate blast freezer. Recipes carry over to the larger LEO machines.
- **Up to 6 kg per batch**: 7 trays, 0.6 m² of shelf area.
- **Low running cost**: 0.9 kWh per hour on average, Auto mode for common products and manual control for complex recipes.

CAPACITY & OUTPUT

Batch capacity (fresh load)	**6 kg**
Ice condenser capacity	**9 kg**
Total shelf area	**0.6 m²**
Shelf size	**260 × 330 mm**
Shelves	**7**
Trays	**7**
Shelf spacing	**28 mm**
Tray size	**GN 1/2, 2 cm**
Loading	**Manual**

PROCESS & CYCLE

Shelf temperature range	**-35 to +70 °C**
Min. condenser temperature	**-40 °C**
Defrosting	**Automatic (≈3 h)**
Defrost time	**3 h**
Sweets mode	**Yes, vacuum-drying mode for confectionery**

VACUUM & REFRIGERATION

Vacuum pump type	**Oil-sealed rotary vane**
Refrigeration type	**Air-cooled**
Refrigerant	**R-452B**

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	**Transparent door with LED lighting**
Body color options	**Jet Black, Traffic White, Stainless Steel, Other RAL**
Max. noise level	**65 dB(A) max. (DIN 45635)**
IP protection	**IP65 (DIN 60529)**

POWER & FOOTPRINT

Power supply	**220–240 V / 1~ / 50 Hz**
Connected load	**3.5 kW**
Nominal power	**1.8 kW**
Mains fuse	**16 A (standard 16 A socket)**
Energy consumption (avg)	**0.9 kWh/h**
External dimensions (W × D × H)	**500 × 650 × 770 mm**
Net weight	**94 kg**

WARRANTY & SERVICE

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

Recommended accessories

8× Stainless steel tray GN 1/2 20 mm for LEO-004L	Fits: LEO-004L
LEO-004L Warranty extension – 3rd year	Fits: LEO-004L
AMARU Mineral oil for vacuum pump 10 L	Fits: all models
AMARU Mineral oil for vacuum pump 20 L	Fits: all models
AMARU Viktor – Ozone decontaminator	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.