

LEOSMAK · COMPACT

LEO-004L

Up to 6 kg per batch capacity. The LEO-004L Compact Freeze Dryer offers advanced freeze-drying technology, remote monitoring, and durable stainless steel construction for small-batch production and prototyping.



BATCH CAPACITY

6 kg

AVG. ENERGY USE

0.9 kWh / h

SHELF AREA

0.6 m²

APPLICATIONS

Freeze-Drying for Fruits & Vegetables

Freeze-Drying for Herbs, Spices & Microgreens

CE marked

Built in EU

Why choose the LEO-004L

- ✓ **Small-batch production & R&D** — for small producers who want to freeze and dry in one machine.
- ✓ **Freezes in the chamber** — radiant freezing and heating shelves — no separate blast freezer needed. Recipes scale straight up to industrial LEO units.
- ✓ **Up to 6 kg per batch** — small-scale production runs.
- ✓ **Efficient & low-effort** — just 0.9 kWh/hour, Auto mode for common products, manual control for complex recipes.

CAPACITY & OUTPUT

Batch capacity (fresh load)	6 kg
Ice condenser capacity	10 kg
Total shelf area	0.6 m²
Number of shelves	7
Number of trays	7
Tray size	GN 1/2, 2 cm

PROCESS & CYCLE

Shelf temperature range	-40 to +70 °C
Min. condenser temperature	-40 °C
Defrosting	Automatic (≈3 h)
Defrost time	3 h

VACUUM & REFRIGERATION

Vacuum pump type	Oil-sealed (oil-free option)
Refrigeration type	Air-cooled
Refrigerant	R-452B

CONTROL & MONITORING

Control system	LCD touchscreen + Wi-Fi
Menu language	English
Data logging & recipes	Wi-Fi app monitoring
Remote monitoring	Yes

BUILD

Chamber material	AISI 304 stainless steel
Shelf material	Stainless steel
Body color options	Jet Black, Traffic White, Stainless Steel, Other RAL

POWER & FOOTPRINT

Power supply	220-240 V / 1~ / 50 Hz
Connected load	3.5 kW
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)
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Recommended accessories

8× Stainless steel tray GN 1/2 20 mm for LEO-004L

AMARU Mineral oil for vacuum pump 10 L Fits: All

AMARU Mineral oil for vacuum pump 20 L Fits: All

AMARU Viktor – Ozone decontaminator

Stainless steel tray GN 1/2 20 mm

More accessories are available in our online store — follow the QR code.



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Scan for live specifications, current pricing and to request a quotation.