

EXEAT · COMPACT

LIO 40

Up to 3.5 kg per batch · 4 stainless-steel trays · 0.38 m² shelf area. European-built, CE-certified professional freeze dryer. Lowest-cost entry to the LIO 40 platform — validate and produce at lower volumes. Oil-sealed pump standard; oil-free scroll option.



BATCH CAPACITY

3.5 kg

AVG. ENERGY USE

0.97 kWh / h

SHELF AREA

0.38 m²

APPLICATIONS

Freeze-Drying for Herbs, Spices & Microgreens

Freeze-Drying for Fruits & Vegetables

CE marked

Built in EU

Why choose the LIO 40

- ✓ **For chefs, artisans & R&D** — compact enough for a professional kitchen or lab bench, serious enough for repeatable production runs.
- ✓ **Up to 3.5 kg fresh load** — 4 trays, 0.38 m² shelf area.
- ✓ **Configured to fit you** — choose Base, L or Pro and an oil or oil-free (scroll) vacuum pump to match performance to budget. The one line you tune to your workflow.
- ✓ **Repeatable results** — controlled shelf temperature and deep vacuum for consistent structure, colour and rehydration. CE-certified, AISI 304 stainless, 12-month warranty.

CAPACITY & OUTPUT

Batch capacity (fresh load)	3.5 kg
Ice condenser capacity	7 kg
Total shelf area	0.38 m²
Number of shelves / trays	4
Shelf spacing	57 mm
Tray size	20 × 48 cm

PROCESS & CYCLE

Shelf temperature range	-35 to +60 °C (recipe)
Min. condenser temperature	-43 °C
Defrosting	Manual (heated)
Defrost time	3 h

VACUUM & REFRIGERATION

Vacuum pump	Oil-sealed (oil-free scroll option)
Refrigeration	Air-cooled
Refrigerant	R290 (natural refrigerant, GWP 3)

CONTROL & MONITORING

Control system	PLC touchscreen
Menu language	English
Data logging & recipes	USB CSV export + recipes
Remote monitoring	No

BUILD

Chamber / shelf material	AISI 304 stainless steel
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POWER & FOOTPRINT

Power supply	230 V / 1~ / 50 Hz
Connected load	1.25 kW
Energy consumption (avg)	0.97 kWh/h
External dimensions (W×D×H)	550 × 690 × 940 mm
Net weight	118 kg

WARRANTY & SERVICE

Warranty	12 months
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Recommended accessories

Tray for LIO 40 (20×48 cm)	Fits: LIO 40 series
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AMARU Mineral oil for vacuum pump 10 L	Fits: All
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AMARU Mineral oil for vacuum pump 20 L	Fits: All
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AMARU Viktor – Ozone decontaminator

Leosmak High-Performance Vacuum Pump Oil	Fits: All Leosmak
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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.