

EXEAT · LIGHT COMMERCIAL

LIO 140

Up to 12 kg per batch · 6 stainless-steel trays · 1.5 m² shelf area. European-built, CE-certified professional freeze dryer. Lowest-cost entry to the LIO 140 platform — validate and produce at lower volumes. Oil-sealed pump standard; oil-free scroll option.



BATCH CAPACITY

12 kg

AVG. ENERGY USE

2.46 kWh / h

SHELF AREA

1.5 m²

APPLICATIONS

Freeze-Drying for Nutraceuticals & Supplements

Freeze-Drying for Fruits & Vegetables

Freeze-Drying for Confectionery

Freeze-Drying for Ready Meals & Snacks

CE marked

Built in EU

Why choose the LIO 140

- ✓ **For producers scaling past R&D** — the step up from bench to a small production line, without an industrial footprint.
- ✓ **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.
- ✓ **Up to 12 kg fresh load** — 6 trays, 1.5 m² shelf area.
- ✓ **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)	12 kg
Ice condenser capacity	24 kg
Total shelf area	1.5 m²
Number of shelves / trays	6
Shelf spacing	57 mm
Tray size	37 × 69 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	400 V / 3~ / 50 Hz
Connected load	2.72 kW
Energy consumption (avg)	2.46 kWh/h
External dimensions (W×D×H)	800 × 900 × 1205 mm
Net weight	295 kg

WARRANTY & SERVICE

Warranty	12 months
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Recommended accessories

Tray for LIO 140 (37×69 cm)	Fits: LIO 140 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.



 +34 614 332 324
  team@freeze-drying.tech
  freeze-drying.tech
 Scan for live specifications, current pricing and to request a quotation.