

EXEAT · LIGHT COMMERCIAL

LIO 140 Pro

Up to 18 kg per batch · 10 stainless-steel trays · 2.54 m² shelf area. European-built, CE-certified professional freeze dryer. LIO 140 L hardware plus advanced process control — repeatable, higher-throughput, sensitive-product ready. Oil-sealed pump standard; oil-free scroll option.



BATCH CAPACITY

18 kg

AVG. ENERGY USE

2.46 kWh / h

SHELF AREA

2.54 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 Pro

- ✓ **For producers scaling past R&D** — the step up from bench to a small production line, without an industrial footprint.
- ✓ **Up to 18 kg fresh load** — 10 trays, 2.54 m² shelf area.
- ✓ **Top-configured, ready to run** — the Pro build with the deep-vacuum pump option, for users who want the full-performance setup out of the box.
- ✓ **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)	18 kg
Ice condenser capacity	24 kg
Total shelf area	2.54 m ²
Number of shelves / trays	10
Shelf spacing	37 mm
Tray size	37 × 69 cm

PROCESS & CYCLE

Shelf temperature range	-35 to +60 °C (recipe)
Min. condenser temperature	-43 °C
Defrosting	Automatic / fast defrost (Pro)
Defrost time	1 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 + Pro: pressure control · pressure-building control · fast defrost · automatic drain control
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

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	
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Leosmak High-Performance Vacuum Pump Oil	Fits: All Leosmak
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Moisture analyzer AXIS ATS60	Fits: All
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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.