

## LEOSMAK · COMPACT

## LEO-004

Up to 4 kg per batch capacity. The LEO-004 Compact Freeze Dryer is a perfect choice for households, restaurants, and businesses prototyping recipes for larger machines, offering professional-grade performance in a compact design.



## BATCH CAPACITY

**4** kg

## AVG. ENERGY USE

**0.9** kWh / h

## SHELF AREA

**0.34** m<sup>2</sup>

## APPLICATIONS

Freeze-Drying for Fruits &amp; Vegetables

Freeze-Drying for Herbs, Spices &amp; Microgreens

CE marked

Built in EU

## Why choose the LEO-004

- ✓ **Households, restaurants & prototyping** — the entry into the LEO ecosystem — refine recipes here, then scale them straight up to larger LEO machines.
- ✓ **Freezes in the chamber, recipes scale up** — radiant freezing and heating shelves — no separate blast freezer — and the same recipe logic runs on every larger LEO, so what you prototype here scales straight up.
- ✓ **Up to 4 kg per batch** — small-batch prototyping and R&D.
- ✓ **Reliable, professional build** — engineered for durability and consistent results, a step above typical entry-level machines.

## CAPACITY &amp; OUTPUT

|                             |                     |
|-----------------------------|---------------------|
| Batch capacity (fresh load) | 4 kg                |
| Ice condenser capacity      | 6 kg                |
| Total shelf area            | 0.34 m <sup>2</sup> |
| Number of shelves           | 4                   |
| Number of trays             | 4                   |
| Tray size                   | GN 1/2, 2-4 cm      |

## PROCESS &amp; CYCLE

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

## VACUUM &amp; REFRIGERATION

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

## CONTROL &amp; 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 &amp; 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                      | 87 kg                  |

## WARRANTY &amp; SERVICE

|          |                              |
|----------|------------------------------|
| Warranty | 24 months (extendable to 36) |
|----------|------------------------------|

## Recommended accessories

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

5× Stainless steel tray GN 1/2 40 mm for LEO-004

AMARU Mineral oil for vacuum pump 10 L Fits: All

AMARU Mineral oil for vacuum pump 20 L Fits: All

AMARU Viktor – Ozone decontaminator

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.