FROSTX · COMMERCIAL

FrostX 50

Up to 50 kg suggested load on 16 trays, 4.66 m² of shelf area. Tray freeze dryer with a rectangular stainless-steel chamber, two-stage oil pump, thermal-matrix heating shelves and touchscreen control. An entry price point for food producers expanding a freeze-dried range. CE-marked, 12-month warranty.



BATCH CAPACITY	AVG. ENERGY USE	SHELF AREA
50 kg	2.3 kWh / h	4.66 m²

APPLICATIONS Freeze-Dryers for Fruit and Vegetables · Freeze-Drying for Nutraceuticals & Supplements · Freeze-Dryers for Pet Food Production

CE marked · Built in EU

Why choose the FrostX 50

- **The largest FrostX**: deep-vacuum capability for commercial volumes in a simple tray machine.
- **Rectangular chamber**: uncommon at this size. Flat walls take full-width trays with no curved dead space, so more shelf area fits in the same chamber volume.
- **Up to 50 kg suggested load**: 16 trays, 4.66 m² of shelf area.
- **Even drying**: two-stage vacuum pump with oil-mist separator, thermal-matrix heating shelves and refrigeration rated for continuous duty.

CAPACITY & OUTPUT

Suggested max load	**50 kg**
Ice condenser capacity	**50 kg**
Total shelf area	**4.66 m²**
Heated shelves	**8**
Product trays	**16**
Shelf spacing	**4 cm**
Tray size	**53 × 55 cm**

PROCESS & CYCLE

Shelf temperature range	**-30 to +49 °C**
Min. condenser temperature	**-40 °C**

VACUUM & REFRIGERATION

Vacuum system	**Two-stage oil pump + oil-mist separator**
Refrigeration	**Continuous-duty system**
Refrigerant	**Natural refrigerant, GWP ≈ 3**

CONTROL & MONITORING

Control	**Touchscreen; fully programmable cycle**
Menu language	**English**
Data logging & recipes	**No recipe storage and no data logging; cycle settings are entered per batch**
Remote monitoring	**No**

BUILD

Heating	**Thermal-matrix shelves**
Chamber	**Rectangular stainless steel; insulated internal product chamber**
Chamber lighting	**In-chamber light**
Chamber rapid defrost	**Standard**
Mobility	**On wheels**

POWER & FOOTPRINT

Power supply	**400 V / 3~**
Average energy consumption	**2.3 kWh/h**
External dimensions (W×D×H)	**156 × 110 × 148 cm**
Net weight	**536 kg**

WARRANTY & SERVICE

Warranty	**12 months**

Recommended accessories

Set of 16 trays for FrostX 50 (53×55 cm)	Fits: FrostX 50
Tray for FrostX 30/40/50 (53×55 cm)	Fits: FrostX 30, FrostX 40 and FrostX 50
FrostX tray transport cart	Fits: FrostX 30, FrostX 40, FrostX 50
FrostX 50 Warranty extension +1 year	Fits: FrostX 50
FrostX 50 Warranty extension +2 years	Fits: FrostX 50

More accessories in our online store: scan the QR code.

+34 614 332 324 team@freeze-drying.tech freeze-drying.tech

Scan for current specifications and prices, or to request a quotation.

Specifications are provided by the manufacturer and are subject to change without notice. Figures are for planning purposes; confirmed values are provided per quotation. Metric units.