

LAB100

TECHNICAL DATA SHEET

Compact Laboratory Freeze Dryer



MODELL
WAVE LAB100

SPRACHE
EN

VERSION
08/2026

Compact. Flexible. Process-ready.

The WAVE LAB100 combines a -80 °C cold trap with stoppering under vacuum and an 8-port manifold. It is designed for laboratory development, small batches, vials, trays and freeze-drying flasks. Touch control, trend curves and USB export support reproducible trials and clear process documentation.

≤ -80 °C

COLD TRAP

0.08 m²

DRYING AREA

3-4 L/24 h

WATER CAPTURE

8 PORT

MANIFOLD

Key features

- Stoppering chamber for sealing vials under vacuum
- 8-port manifold for freeze-drying flasks
- 3 trays with a total drying area of 0.08 m²
- Color touchscreen with temperature, vacuum and trend display
- USB export for process data
- WAVE documentation, commissioning and product support

Technical specification

Configuration	Stoppering chamber with 8-port manifold
Cold trap temperature	≤ -80 °C, no load, order-specific configuration
Cold trap capacity	6 L
Water capture	3 to 4 L / 24 h
Drying area	0.08 m²
Trays	3 pcs, Ø 180 × 20 mm
Suggested liquid load	0.8 L
Maximum total liquid load	1.6 L, product-dependent
Ultimate vacuum	≤ 5 Pa product specification; typical drying threshold ≤ 10 Pa
Typical drying time	24 to 36 h, product- and load-dependent
Drying chamber	Ø 260 × 465 mm
Cold trap	Ø 219 × 140 mm
Power supply	220 V / 50 Hz, order-specific
Connected load	1,300 W
Cooling	Air cooled
Refrigerant	R404A / R23 for -80 °C configuration
Main unit dimensions	640 × 610 × 550 mm; assembled height approx. 990 mm
Ambient conditions	10 to 30 °C, relative humidity ≤ 80 %

Standard accessories

Drying and stoppering racks, 3 trays, acrylic chamber, 8 manifold valves, 8 flasks, KF25 connection parts, vacuum grease and USB drive. Vacuum pump according to quotation and order confirmation.

CONFIGURATION NOTE

Values refer to the -80 °C configuration sourced by WAVE. Specifications may vary with mains version, pump and equipment package. Quotation, order confirmation and nameplate take precedence.

Contact

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