

PRODUCT DATA SHEET

Standing: 2024-05-08

LAUDA Versafreeze VF 70085

Upright Freezer 230 V; 50 Hz

Part Number: L003445

Features

- Laboratory upright freezer with reliable monitoring and highly efficient insulation for long-term storage and quality assurance
- Comfortable touchscreen control unit with digital display for entering and calling up all safety-relevant values
- Limit values for high and low temperature alarm adjustable
- Protection against unauthorized access to setpoints through password-protected user management
- Electronic alarm system and potential-free contact for connection to an in-house alarm system or the central control system
- Display and alarm functions are maintained in the event of a power failure (battery backup)
- Interior completely made of stainless steel
- Seven inner compartments, each protected against loss of cold by an insulating door
- For long-term storage and quality assurance of organic substances and other materials
- Built-in data logger for storing temperature and alarm data
- IIOT ready via powerful Ethernet interface
- RS 485 interface for trouble-free data transfer
- Cooling coils blown into the sides ensure direct cold transfer from all sides, high freezing speed and uniform temperature distribution throughout the whole cabinet
- Energy-saving, maintenance-free refrigeration system with fully hermetic high-performance compressors
- Environmentally friendly, future-proof natural refrigerants
- Vacuum insulation means more storage space with a reduced footprint
- Two lead-throughs with an internal diameter of 13 mm as standard, for inserting control sensors, eg Type Pt100
- Magnetic sealing system reliably prevents the door / lid seals from freezing on



Reserve technical changes

Options included

- Condenser cooling by water to reduce the heat dissipation to the environment
- Requires an on-site cooling water supply

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Dr. Ralf Hermann, Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Working temperature min.
-86 °C



Working temperature max.
-50 °C

Technical Features

Working temperature range	-86 ... -50 °C
Temperature stability	2 ± K
Temperature homogeneity	6 K at -86 °C
Ambient temperature range	15 ... 28 °C
Useable volume	731 L
Interior dimensions (WxDxH)	738 x 750 x 1320 mm
Overall dimensions (WxDxH)	980 x 1165 x 1965 mm
Weight	387 kg
Cool down time	from 20 °C to -86 °C in 7 h
Thawing time	from -86 °C to 0 °C in 25 h
Energy consumption	15.5 kWh/d at -86 °C
Refrigerant stage 1	R-290 (GWP 3); 0.145 kg; 0.0 t CO ₂ -eq
Refrigerant stage 2	R-170 (GWP 6); 0.090 kg; 0.0 t CO ₂ -eq
Power supply	230 V; 50 Hz
Power plug	Power cord with angled plug (CEE7/7)

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