

## PRODUCT DATA SHEET

Standing: 2024-12-19

### LAUDA Versafreeze VF 15085

Upright Freezer 230 V; 50 Hz

Part Number: L003344

#### 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
- One inner compartment 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
- Can be built under a work bench (can easily be integrated into a laboratory line) or free-standing



Reserve technical changes



Working temperature min.  
-86 °C



Working temperature max.  
-50 °C

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Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

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## Technical Features

Working temperature range	-86 ... -50 °C
Temperature stability	2 ± K
Temperature homogeneity	3 K at -86 °C
Ambient temperature range	15 ... 28 °C
Useable volume	129 L
Interior dimensions (WxDxH)	480 x 480 x 560 mm
Overall dimensions (WxDxH)	904 x 776 x 865 mm
Weight	167 kg
Cool down time	from 20 °C to -86 °C in 5 h
Thawing time	from -86 °C to 0 °C in 18 h
Energy consumption	9.3 kWh/d at -86 °C
Refrigerant stage 1	R-290 (GWP 3); 0.135 kg; 0.0 t CO <sub>2</sub> -eq
Refrigerant stage 2	R-170 (GWP 6); 0.080 kg; 0.0 t CO <sub>2</sub> -eq
Power supply	230 V; 50 Hz
Power plug	Schuko plug (EU) and two adapters: BS 1363 (UK) and SEV 5934/2, T23 (Switzerland)

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