

## PRODUCT DATA SHEET

Standing: 2023-09-25

LAUDA Versafreeze VF 60085

Upright Freezer 230 V; 50 Hz

Part Number: L003345

### 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
- Very little heat emission to the ambient
- 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



Working temperature min.  
-86 °C



Working temperature max.  
-50 °C

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Persönlich haftende Gesellschafterin:  
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Geschäftsführer:  
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Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

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### Technical Features

|                             |                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Working temperature range   | -86 ... -50 °C                                                                                                                          |
| Ambient temperature range   | 15 ... 28 °C                                                                                                                            |
| Useable volume              | 584 L                                                                                                                                   |
| Interior dimensions (WxDxH) | 738 x 600 x 1320 mm                                                                                                                     |
| Overall dimensions (WxDxH)  | 980 x 956 x 1965 mm                                                                                                                     |
| Weight                      | 356 kg                                                                                                                                  |
| Cool down time              | from 20 °C to -86 °C in 6 h                                                                                                             |
| Thawing time                | from -86 °C to 0 °C in 23 h                                                                                                             |
| Energy consumption          | 13.5 kWh/d at -86 °C                                                                                                                    |
| Refrigerant stage 1         | R-290 (GWP 3); 0.145 kg; 0.0 t CO <sub>2</sub> -eq                                                                                      |
| Refrigerant stage 2         | R-170 (GWP 3); 0.090 kg; 0.0 t CO <sub>2</sub> -eq                                                                                      |
| Power supply                | 230 V; 50 Hz                                                                                                                            |
| Power plug                  | Power cord with angled plug (CEE7/7)                                                                                                    |
| Certification               | NRTL according to UL 61010-1:2012/R:2019-07, CSA C22.2 No. 61010-1:2012/A1:2018-11, CSA C22.2 No. 61010-2-011:2019, UL 61010-2-011:2021 |

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