

## PRODUCT DATA SHEET

Standing: 2024-05-08

### LAUDA Versafreeze VF 55085 C

### Chest Freezer 115 V; 60 Hz

### Part Number: L003398

#### Features

- Laboratory chest 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
- 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
- Additional insulating cover plates over the usable space
- 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



Working temperature min.  
-86 °C



Working temperature max.  
-50 °C

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Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:  
LAUDA DR. R. WOBSEY Verwaltungs-GmbH  
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Registergericht Mannheim • HRB 560226

Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, 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	2 K at -86 °C
Ambient temperature range	15 ... 28 °C
Useable volume	556 L
Interior dimensions (WxDxH)	1180 x 620 x 760 mm
Overall dimensions (WxDxH)	1671 x 910 x 1056 mm
Weight	280 kg
Cool down time	from 20 °C to -86 °C in 4 h
Thawing time	from -86 °C to 0 °C in 19 h
Energy consumption	9.7 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 6); 0.090 kg; 0.0 t CO <sub>2</sub> -eq
Power supply	115 V; 60 Hz
Power plug	Power cord with plug (NEMA 5-30P)
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

Reserve technical changes

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