

## PRODUCT DATA SHEET

Standing: 2024-06-14

### LAUDA Versafreeze VF 70085

Upright Freezer 230 V; 50 Hz

Part Number: L003494

#### 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

LAUDA DR. R. WOBSEY GMBH & CO. KG  
Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0  
info@lauda.de • www.lauda.de  
WEEE-Reg.-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen  
Registergericht Mannheim • HRA 560069

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

Geschäftsführer:  
Dr. Gunter Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

# PRODUCT DATA SHEET

Standing: 2024-06-14

LAUDA Versafreeze VF 70085

Upright Freezer 230 V; 50 Hz

Part Number: L003494



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 1179 x 1965 mm                               |
| Weight                      | 370 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 <sub>2</sub> -eq |
| Refrigerant stage 2         | R-170 (GWP 6); 0.090 kg; 0.0 t CO <sub>2</sub> -eq |
| Power supply                | 230 V; 50 Hz                                       |
| Power plug                  | Power cord with plug (GB2099, 15934)               |

Reserve technical changes

LAUDA DR. R. WOBSEY GMBH & CO. KG  
Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0  
info@lauda.de • www.lauda.de  
WEEE-Reg.-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen  
Registergericht Mannheim • HRA 560069

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

Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser