

## PRODUCT DATA SHEET

Standing: 2024-03-18

LAUDA Variocool VC 1200 W

Process thermostat 230 V; 50 Hz

Part Number: L000732

### Features

- Process thermostat suitable for use with non-flammable heat transfer liquids
- Coloured TFT display for simultaneous indication of actual & set values and graphic illustration of the temperature profile
- Clear text menu navigation, six selectable languages DE, EN, FR, ES, IT, RU
- Easy input via cursor and soft keys
- Fully electronic continuous controller with PID action
- Electronic level indication and low level alarm
- Powerful pressure pump
- USB interface as standard
- Remote fault indication through floating contact
- Upgradeable with an interface module (analogue module, contact module, RS 232/485 module, Profibus, Ethernet-USB module)
- Integrated programmer with max. 150 segments, splittable in 5 programmes
- Adjustable bypass for pressure limiting
- Filler opening on top, drain tap on the backside
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024
- Condenser cooling Water
- Operates with non flammable liquids (water, water/glycol)



Reserve technical changes



Working temperature min.  
-20 °C



Working temperature max.  
80 °C

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

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## Technical Features (according to DIN 12876)

|   |   |
|---|---|
| Working temperature range                 | -20 ... 80 °C                             |
| Ambient temperature range                 | 5 ... 40 °C                               |
| Temperature stability                     | 0.05 ± K                                  |
| Heater power max.                         | 2.25 kW                                   |
| Power consumption max.                    | 3.3 kW                                    |
| Current max.                              | 14 A                                      |
| Pump Pressure max.                        | 0,9 bar                                   |
| Pump flow rate max. (pressure)            | 28 L/min                                  |
| In / Outlet connection thread (outside)   | G 3/4"                                    |
| Pressure adjustment                       | bypass                                    |
| Filling volume max.                       | 15 L                                      |
| Water cooling connection thread (outside) | 3/4 "                                     |
| Recommended cooling water temperature     | 15 °C                                     |
| Cooling water flow rate                   | 2.5 L/min                                 |
| Pressure difference cooling water min.    | 1 bar                                     |
| Maximal pressure cooling water            | 10 bar                                    |
| Overall dimensions (WxDxH)                | 450 x 550 x 650 mm                        |
| Weight                                    | 50 kg                                     |
| Refrigerant stage 1                       | R-449A (GWP 1397); 0.500 kg; 0.7 t CO2-eq |
| Power supply                              | 230 V; 50 Hz                              |
| Power plug                                | Power cord with angled plug (CEE7/7)      |

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| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|----------------------|------------------------|
| 20 °C       | Ethanol              | 1.2 kW                 |
| 10 °C       | Ethanol              | 1 kW                   |
| 0 °C        | Ethanol              | 0.7 kW                 |
| -10 °C      | Ethanol              | 0.4 kW                 |
| -20 °C      | Ethanol              | 0.14 kW                |

### Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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