

## PRODUCT DATA SHEET

Published: 2026-08-20

LAUDA Variocool VC 10000 W

Process thermostat 400 V; 3/N/PE; 50 Hz

Part Number: L000985

### 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, splitable 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.  
-25 °C



Working temperature max.  
80 °C

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

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### Technical Features (according to DIN 12876)

|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| Working temperature range                 | -25 ... 80 °C                                           |
| Ambient temperature range                 | 5 ... 40 °C                                             |
| Temperature stability                     | 0.1 ± K                                                 |
| Heater power max.                         | 7.5 kW                                                  |
| Power consumption max.                    | 11.1 kW                                                 |
| Current max.                              | 16 A                                                    |
| Pump Pressure max.                        | 5,0 bar                                                 |
| Pump flow rate max. (pressure)            | 60 L/min                                                |
| In / Outlet connection thread (outside)   | G 1 1/4"                                                |
| Pressure adjustment                       | bypass                                                  |
| Filling volume min.                       | 48 L                                                    |
| Filling volume max.                       | 64 L                                                    |
| Water cooling connection thread (outside) | 3/4 "                                                   |
| Recommended cooling water temperature     | 15 °C                                                   |
| Cooling water consumption                 | 21.7 L/min                                              |
| Pressure difference cooling water min.    | 3 bar                                                   |
| Maximum pressure cooling water            | 10 bar                                                  |
| Overall dimensions (WxDxH)                | 650 x 670 x 1250 mm                                     |
| Weight                                    | 131 kg                                                  |
| Refrigerant stage 1                       | R-452A (GWP 2140); 2.000 kg; 4.3 t CO <sub>2</sub> -eq  |
| Power supply                              | 400 V; 3/N/PE; 50 Hz                                    |
| Power plug                                | Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A) |

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Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|----------------------|------------------------|
| 20 °C       | Ethanol              | 9.65 kW                |
| 10 °C       | Ethanol              | 7.25 kW                |
| 0 °C        | Ethanol              | 4.95 kW                |
| -10 °C      | Ethanol              | 3.15 kW                |
| -20 °C      | Ethanol              | 1.65 kW                |
| -25 °C      | Ethanol              | 0.95 kW                |

Reserve technical changes

### Standard accessories

- 2 nipples 1" with screw cap G1 1/4 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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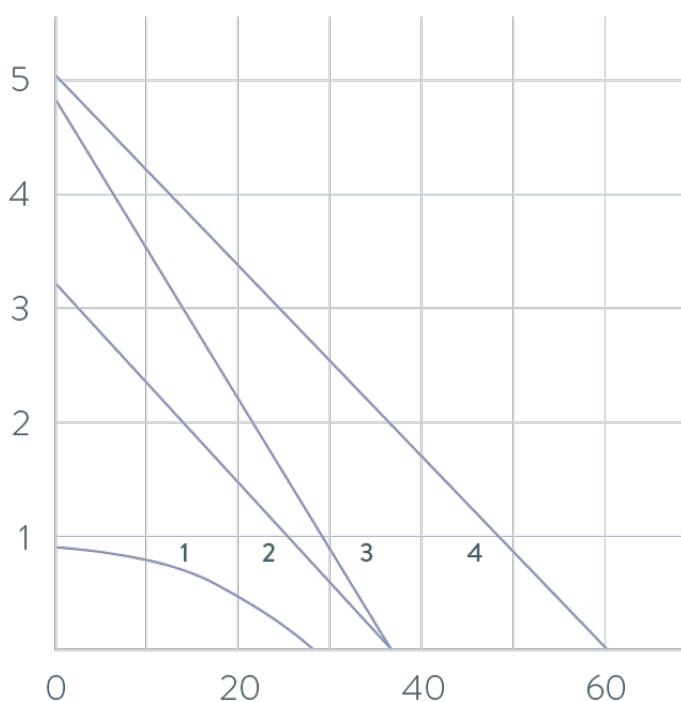
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



- 1 0.9 bar, 28 L/min
- 2 3.2 bar, 37 L/min
- 3 4.8 bar, 37 L/min
- 4 5.0 bar, 60 L/min

Flow rate L/min

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