

## PRODUCT DATA SHEET

Standing: 2024-09-22

LAUDA Variocool VC 10000 W

Process thermostat 200 V; 3/PE; 50/60 Hz

Part Number: L001045

### 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.  
-25 °C



Working temperature max.  
80 °C

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WEEE-Reg.-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen  
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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. 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.                         | 5.7 kW   |
| Power consumption max.                    | 7.6 kW   |
| Current max.                              | 25 A   |
| Pump Pressure max.                        | 4,3 bar  |
| Pump flow rate max. (pressure)            | 60 L/min   |
| In / Outlet connection thread (outside)   | G 1 1/4"   |
| Pressure adjustment                       | bypass   |
| Filling volume max.                       | 64 L   |
| Water cooling connection thread (outside) | 3/4 "  |
| Recommended cooling water temperature     | 15 °C  |
| Cooling water flow rate                   | 21.7 L/min   |
| Pressure difference cooling water min.    | 3 bar  |
| Maximal pressure cooling water            | 10 bar   |
| Overall dimensions (WxDxH)                | 650 x 670 x 1250 mm                                  |
| Weight                                    | 135 kg   |
| Refrigerant stage 1                       | R-452A (GWP 2140); 2.000 kg; 4.3 t CO2-eq            |
| Power supply                              | 200 V; 3/PE; 50/60 Hz                                |
| Power plug                                | Power cord with plug (NEMA L16-30P twist lock; 30 A) |

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| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|----------------------|------------------------|------------------------|
| 20 °C       | Ethanol              | 9.65 kW                | 9.65 kW                |
| 10 °C       | Ethanol              | 7.25 kW                | 7.25 kW                |
| 0 °C        | Ethanol              | 4.95 kW                | 4.95 kW                |
| -10 °C      | Ethanol              | 3.15 kW                | 3.15 kW                |
| -20 °C      | Ethanol              | 1.65 kW                | 1.65 kW                |
| -25 °C      | Ethanol              | 0.95 kW                | 0.95 kW                |

### 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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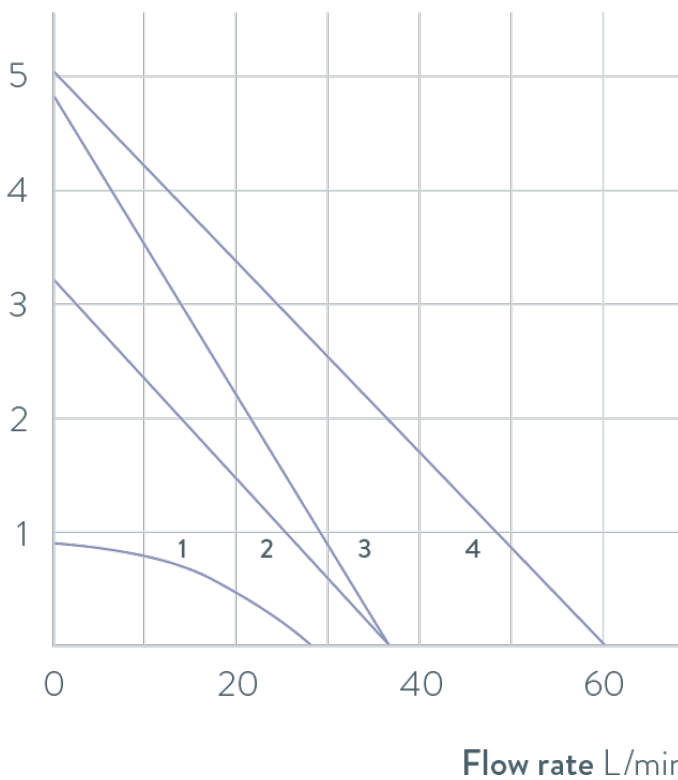
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

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

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