

PRODUCT DATA SHEET

Standing: 2024-12-03

LAUDA Variocool VC 5000

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

Part Number: L001026

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 Air
- 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. 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. | 3.4 kW |
| Power consumption max. | 4.3 kW |
| Current max. | 16 A |
| Pump Pressure max. | 4,3 bar |
| Pump flow rate max. (pressure) | 60 L/min |
| In / Outlet connection thread (outside) | G 3/4" |
| Pressure adjustment | bypass |
| Filling volume max. | 33 L |
| Overall dimensions (WxDxH) | 550 x 650 x 970 mm |
| Weight | 99 kg |
| Refrigerant stage 1 | R-449A (GWP 1397); 1.100 kg; 1.5 t CO ₂ -eq |
| Power supply | 200 V; 3/PE; 50/60 Hz |
| Power plug | Power cord with plug (NEMA L16-20P twist lock; 20 A) |

Reserve technical changes

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|----------------------|------------------------|------------------------|
| 20 °C | Ethanol | 4.65 kW | 4.65 kW |
| 10 °C | Ethanol | 3.55 kW | 3.55 kW |
| 0 °C | Ethanol | 2.4 kW | 2.4 kW |
| -10 °C | Ethanol | 1.35 kW | 1.35 kW |
| -20 °C | Ethanol | 0.55 kW | 0.55 kW |

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Standard accessories

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

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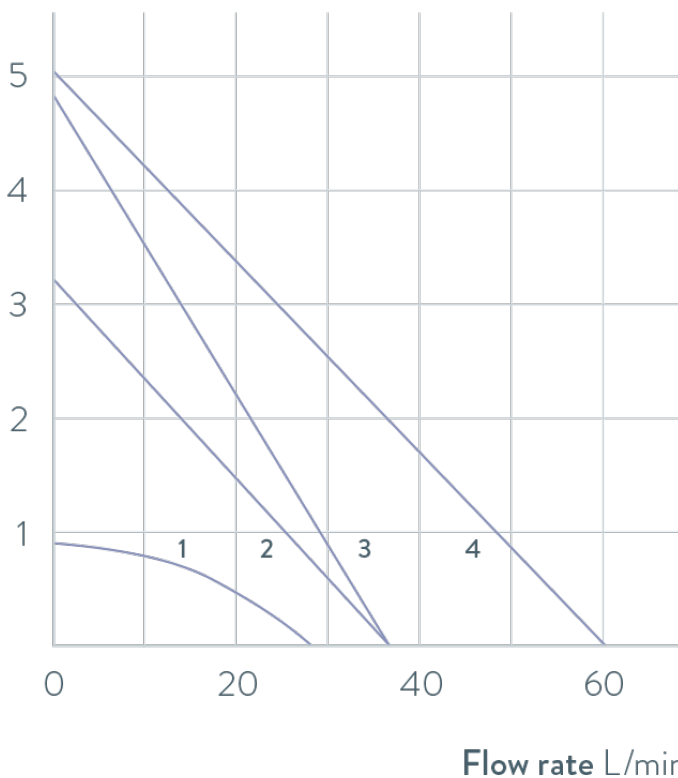
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PUMP CHARACTERISTIC Heat transfer liquid: Water

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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