

## PRODUCT DATA SHEET

Published: 2025-10-08

### LAUDA Variocool VC 5000

Process thermostat 208-220 V; 3/PE; 60 Hz

Part Number: L000996

#### 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 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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LAUDA DR. R. WOBSEY Verwaltungs-GmbH  
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Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

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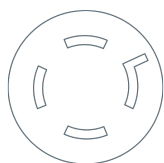
Process thermostat 208-220 V; 3/PE; 60 Hz

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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.                       | 4.1 kW                                                 |
| Power consumption max.                  | 4.5 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 3/4"                                                 |
| Pressure adjustment                     | bypass                                                 |
| Filling volume min.                     | 20 L                                                   |
| Filling volume max.                     | 33 L                                                   |
| Overall dimensions (WxDxH)              | 550 x 650 x 970 mm                                     |
| Weight                                  | 96 kg                                                  |
| Refrigerant stage 1                     | R-449A (GWP 1397); 1.100 kg; 1.5 t CO <sub>2</sub> -eq |
| Power supply                            | 208-220 V; 3/PE; 60 Hz                                 |
| Power plug                              | Power cord with plug (NEMA L15-20P twist lock)         |

Reserve technical changes



Power cord with plug (NEMA L15-20P twist lock)

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

### Standard accessories

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

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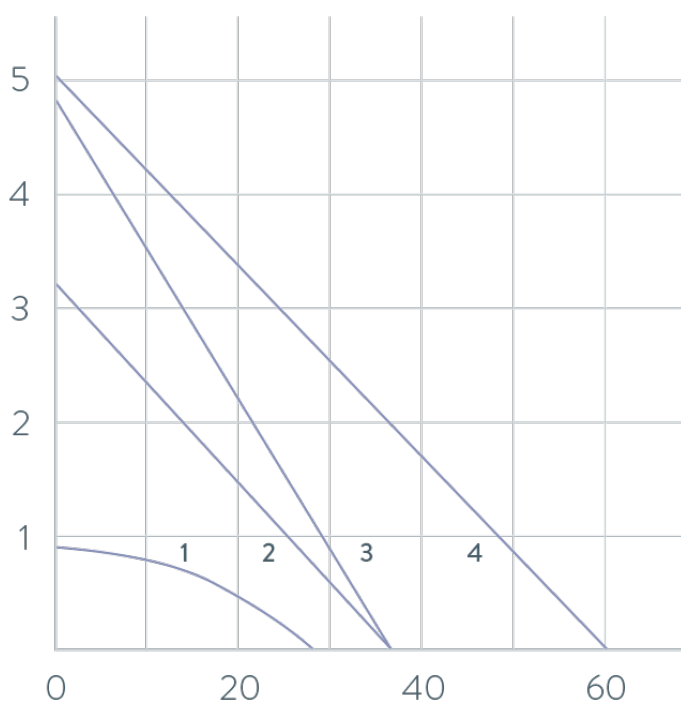
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

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

Flow rate L/min

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