

## PRODUCT DATA SHEET

Standing: 2025-09-08

LAUDA Variocool VC 2000 W

Process thermostat 230 V; 50 Hz

Part Number: L004075

### Features

- 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
- Operates with non flammable liquids (water, water/glycol)
- Process thermostat suitable for use with non-flammable heat transfer liquids
- Condenser cooling Water
- Utilizes natural refrigerants



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  
Registergericht Mannheim • HRA 560069

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                   | 0.05 ± K                                           |
| Heater power max.                       | 2.6 kW                                             |
| Power consumption max.                  | 3.1 kW                                             |
| Current max.                            | 14 A                                               |
| Pump Pressure max.                      | 3,2 bar                                            |
| Pump flow rate max. (pressure)          | 37 L/min                                           |
| In / Outlet connection thread (outside) | G 3/4"                                             |
| Pressure adjustment                     | bypass                                             |
| Filling volume min.                     | 8 L                                                |
| Filling volume max.                     | 15 L                                               |
| Recommended cooling water temperature   | 15 °C                                              |
| Cooling water consumption               | 2 L/min                                            |
| Pressure difference cooling water min.  | 1 bar                                              |
| Maximum pressure cooling water          | 10 bar                                             |
| Overall dimensions (WxDxH)              | 450 x 550 x 790 mm                                 |
| Weight                                  | 57 kg                                              |
| Refrigerant stage 1                     | R-290 (GWP 3); 0.095 kg; 0.0 t CO <sub>2</sub> -eq |
| Power supply                            | 230 V; 50 Hz                                       |
| Power plug                              | Power cord with angled plug (CEE7/7)               |

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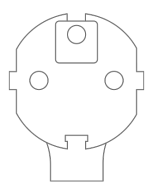
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Power cord with angled plug (CEE7/7)

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|----------------------|------------------------|
| 20 °C       | Ethanol              | 2.02 kW                |
| 10 °C       | Ethanol              | 1.77 kW                |
| 0 °C        | Ethanol              | 1.22 kW                |
| -10 °C      | Ethanol              | 0.87 kW                |
| -20 °C      | Ethanol              | 0.54 kW                |
| -25 °C      | Ethanol              | 0.32 kW                |

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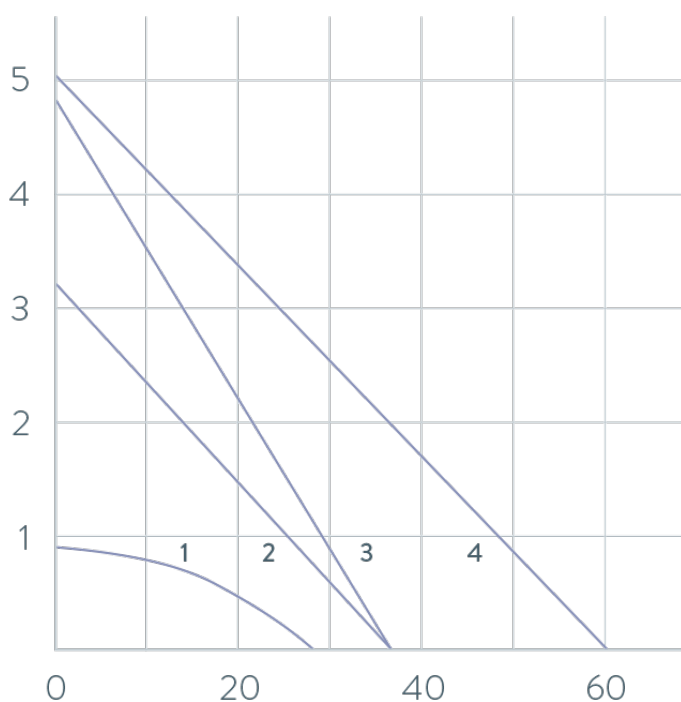
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

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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