

## PRODUCT DATA SHEET

Standing: 2025-07-24

LAUDA Variocool VC 2000 NRTL

200-230 V; 50/60 Hz

Part Number: L002819

### 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
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Fully electronic continuous controller with PID action
- Electronic level indication and low level alarm
- USB and Ethernet interface equipped as standard
- Remote fault indication through floating contact
- Slots for interface modules on the backside of the device
- Option for upgrading up to 2 additional interfaces (RS 232/485, Profibus, analogue, contact or EtherCAT module)
- Upgradeable with Pt 100/LiBus module for external control and remote control via Command Touch console
- Integrated programmer with max. 150 segments, splittable in 5 programmes
- Integrated web server for browser based operation in local area networks via PC, tablet or smart phone, secure data transfer due to authentication procedure and encryption
- Powerful pressure pump
- Adjustable bypass for pressure limiting
- Digital display of pump pressure
- Filler opening on top, drain tap on the backside
- Management of heat transfer liquids with stored properties
- Operates with non flammable liquids (water, water/glycol)
- Condenser cooling Air
- IEC panel connector (C20) for connecting a mains cable



Reserve technical changes



Working temperature min.  
-20 °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  
Sitz Lauda-Königshofen  
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               | -20 ... 80 °C                                          |
| Ambient temperature range               | 5 ... 40 °C                                            |
| Temperature stability                   | 0.05 ± K                                               |
| Heater power min.                       | 1.9 kW                                                 |
| Heater power max.                       | 2.5 kW                                                 |
| Current max.                            | 16 A                                                   |
| Pump Pressure max. 50 Hz                | 3.1 bar                                                |
| Flow rate max. (pressure) 50 Hz         | 37 L/min                                               |
| Pump pressure max. 60 Hz                | 4.1 bar                                                |
| Flow rate max. (pressure) 60 Hz         | 44 L/min                                               |
| In / Outlet connection thread (outside) | G 3/4"                                                 |
| Pressure adjustment                     | bypass                                                 |
| Filling volume min.                     | 9 L                                                    |
| Filling volume max.                     | 14 L                                                   |
| Refrigerant stage 1                     | R-449A (GWP 1397); 0.580 kg; 0.8 t CO <sub>2</sub> -eq |
| Protection rating                       | IP 32                                                  |
| Noise level                             | 60 dB(A)                                               |
| Overall dimensions (WxDxH)              | 450 x 550 x 825 mm                                     |
| Weight                                  | 72 kg                                                  |
| Power supply                            | 200-230 V; 50/60 Hz                                    |
| Power plug                              | Cold device plug (IEC 60320, C20)                      |
| Certification                           | NRTL according to UL 1995:2018, CSA C22.2 No.236:2015  |

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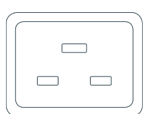
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Cold device plug (IEC 60320, C20)

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|----------------------|------------------------|------------------------|
| 80 °C       | Waterglycol          | 2.85 kW                | 3 kW                   |
| 20 °C       | Ethanol              | 2.15 kW                | 2.2 kW                 |
| 10 °C       | Ethanol              | 1.6 kW                 | 1.65 kW                |
| 0 °C        | Ethanol              | 1.1 kW                 | 1.15 kW                |
| -10 °C      | Ethanol              | 0.65 kW                | 0.7 kW                 |
| -20 °C      | Ethanol              | 0.29 kW                | 0.34 kW                |

Reserve technical changes

### Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for pump connectors
- 1 Mains cable (C19) without plug, length: 6 meters
- 1 Mains plug, Schuko (CEE7/7)
- 1 Mains plug, NEMA 6-20P

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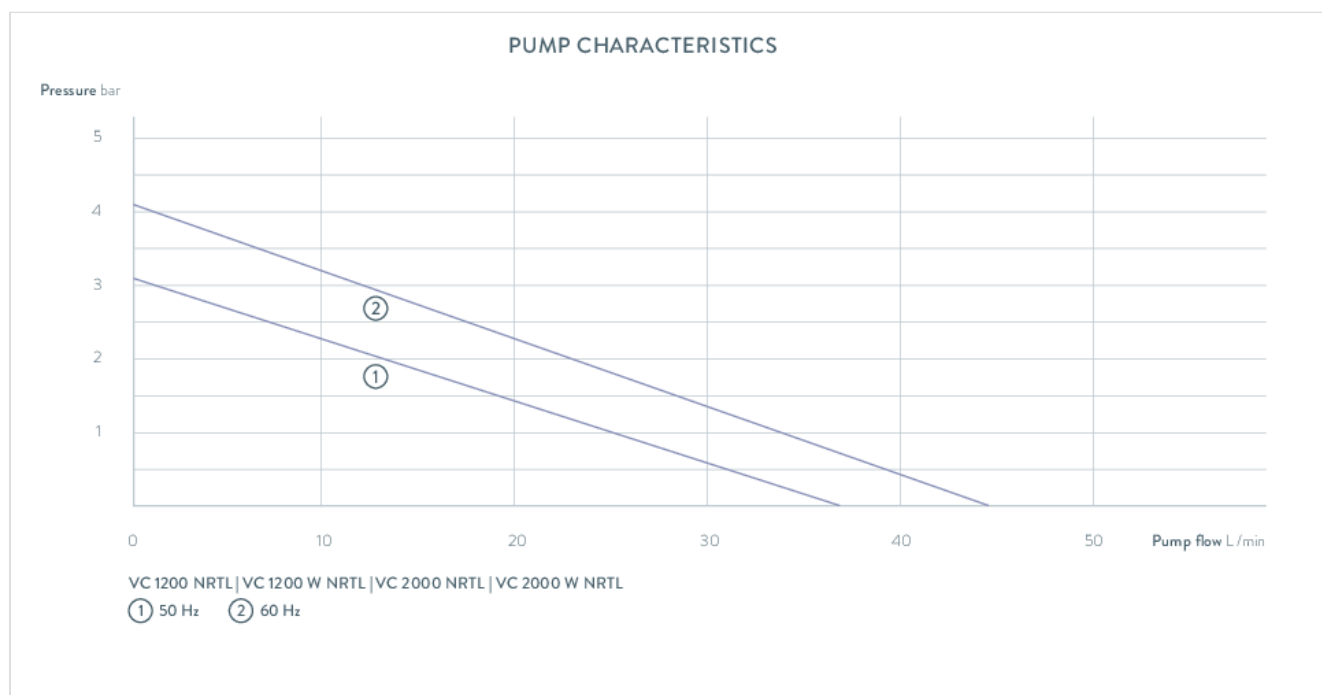
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