

PRODUCT DATA SHEET

Published: 2025-10-20

LAUDA Variocool VC 2000 W NRTL

200-230 V; 50/60 Hz

Part Number: L002823

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 Water
- 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
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Persönlich haftende Gesellschafterin:
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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 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
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water consumption	4.5 L/min
Pressure difference cooling water min.	1 bar
Maximum pressure cooling water	10 bar
Refrigerant stage 1	R-449A (GWP 1397); 0.580 kg; 0.8 t CO2-eq
Protection rating	IP 32
Noise level	59 dB(A)
Overall dimensions (WxDxH)	450 x 550 x 825 mm
Weight	71 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

Reserve technical changes

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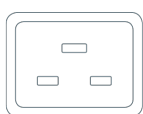
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Cold device plug (IEC 60320, C20)

Temperature	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
80 °C	Waterglycol	2.7 kW	2.75 kW
20 °C	Ethanol	2.2 kW	2.4 kW
10 °C	Ethanol	1.65 kW	1.8 kW
0 °C	Ethanol	1.1 kW	1.2 kW
-10 °C	Ethanol	0.65 kW	0.7 kW
-20 °C	Ethanol	0.3 kW	0.35 kW
80 °C	Waterglycol	2.7 kW	2.75 kW
20 °C	Ethanol	2.2 kW	2.4 kW
10 °C	Ethanol	1.65 kW	1.8 kW
0 °C	Ethanol	1.1 kW	1.2 kW
-10 °C	Ethanol	0.65 kW	0.7 kW
-20 °C	Ethanol	0.3 kW	0.35 kW

Reserve technical changes

Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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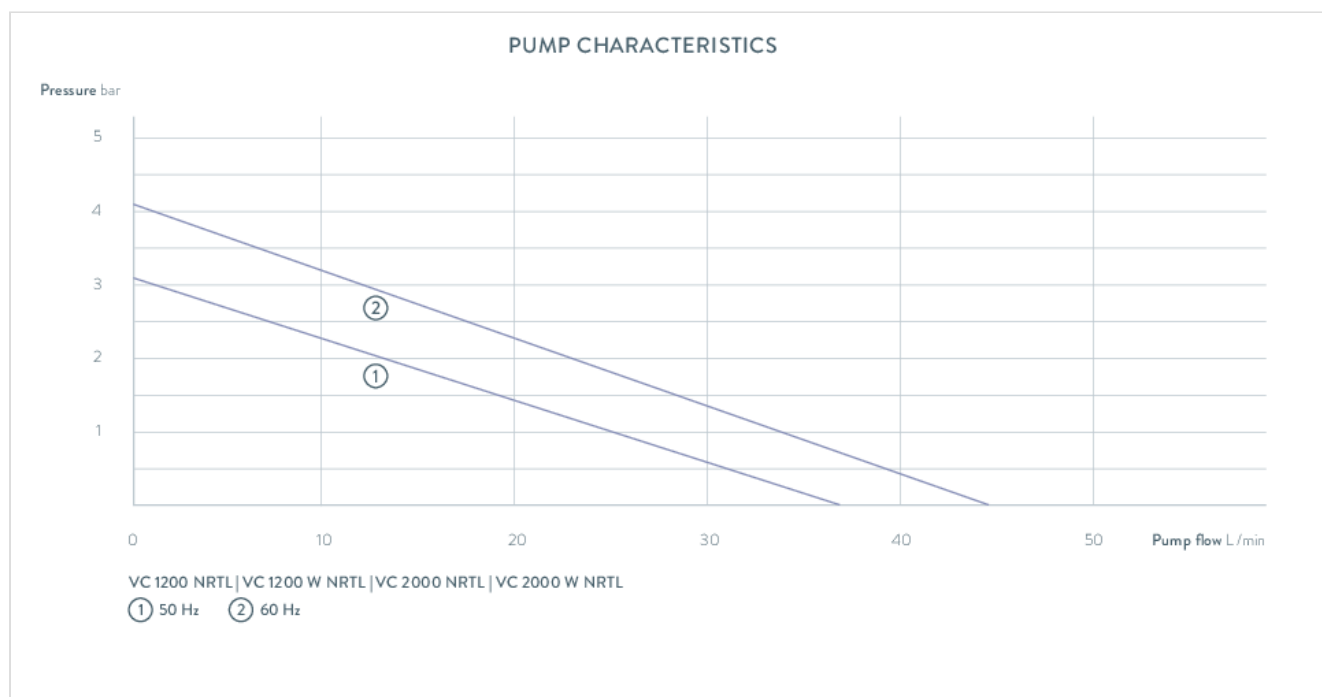
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Standard accessories

- 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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