PRODUCT DATA SHEET

Published: 2026-11-26

LAUDA Variocool VC 5000 W
Process thermostat 200 V; 3/PE; 50/60 Hz
Part Number: L000781



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 two interface modules (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 Water
- Operates with non flammable liquids (water,water/glycol)

Working temperature min.
-20 °C

Working temperature max.
80 °C

Reserve technical changes

LAUDA DR. R. WOBSER GMBH & CO. KG
Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0
info@lauda.de • www.lauda.de
WEEE-Reg-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
LAUDA DR. R. WOBSER Verwaltungs-GmbH
Sitz Lauda-Königshofen
Registergericht Mannheim • HRB 560226

Geschäftsführer:
Dr. Gunther Wobser (Vors.),
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.	3,2 bar
Pump flow rate max. (pressure)	37 L/min
In / Outlet connection thread (outside)	G 3/4"
Pressure adjustement	bypass
Filling volume min.	20 L
Filling volume max.	33 L
Water cooling connection thread (outside)	3/4 ″
Recommended cooling water temperature	15 °C
Cooling water consumption	10 L/min
Pressure difference cooling water min.	3 bar
Maximum pressure cooling water	10 bar
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 CO2-eq
Power supply	200 V; 3/PE; 50/60 Hz
Power plug	Power cord with plug (NEMA L15-20P twist lock)

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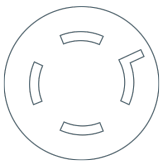

Power cord with plug (NEMA L15-20P twist lock)

Temperature	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
20 °C	Ethanol	5 kW	5 kW
10 °C	Ethanol	3.9 kW	3.9 kW
0 °C	Ethanol	2.75 kW	2.75 kW
-10 °C	Ethanol	1.7 kW	1.7 kW
-20 °C	Ethanol	0.9 kW	0.9 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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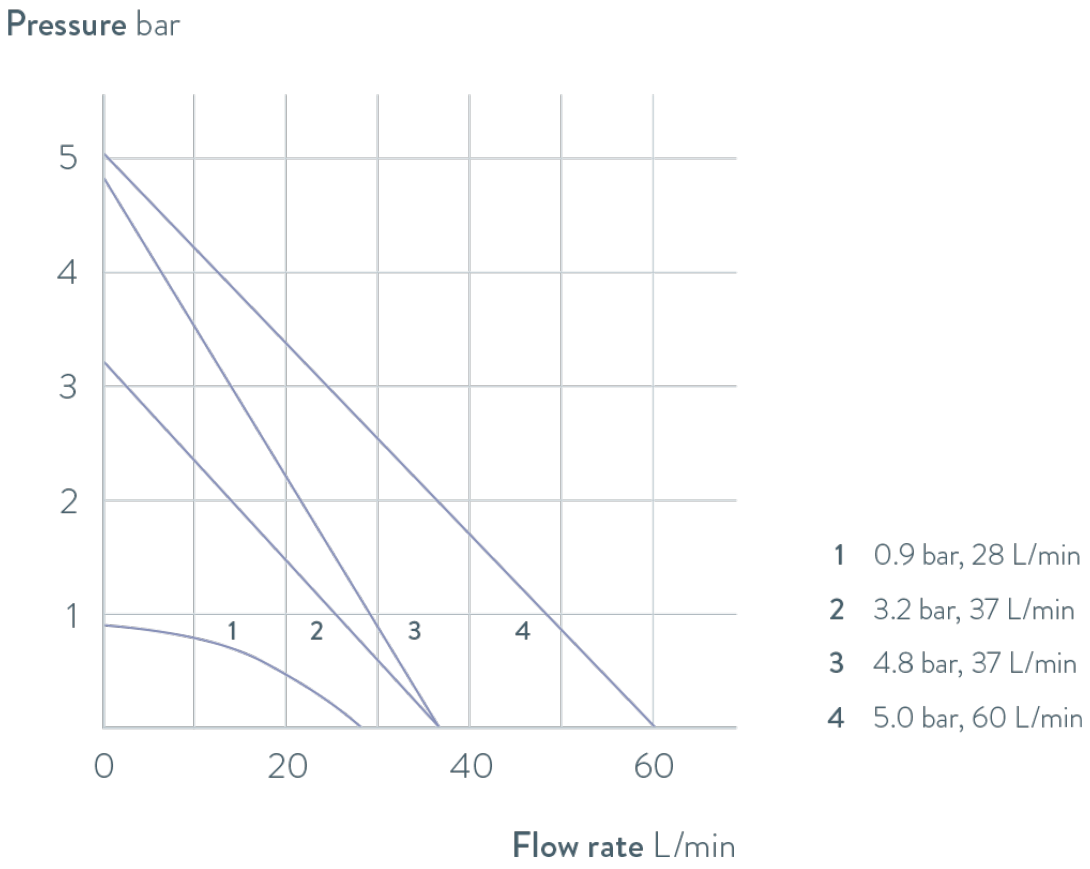
PUMP CHARACTERISTIC Heat transfer liquid: Water



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