

PRODUCT DATA SHEET

Standing: 2024-03-18

LAUDA Variocool VC 10000 W

Process thermostat 400 V; 3/N/PE; 50 Hz

Part Number: L000748

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, 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
- 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)



Reserve technical changes



Working temperature min.
-25 °C



Working temperature max.
80 °C

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Geschäftsführer:
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,
Dr. Ralf Hermann, 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	0.1 ± K
Heater power max.	7.5 kW
Power consumption max.	11.1 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 1 1/4"
Pressure adjustment	bypass
Filling volume max.	64 L
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water flow rate	21.7 L/min
Pressure difference cooling water min.	3 bar
Maximal pressure cooling water	10 bar
Overall dimensions (WxDxH)	650 x 670 x 1250 mm
Weight	131 kg
Refrigerant stage 1	R-452A (GWP 2140); 2.000 kg; 4.3 t CO ₂ -eq
Power supply	400 V; 3/N/PE; 50 Hz
Power plug	Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

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Temperature	Heat transfer liquid	Cooling Capacity 50 Hz
20 °C	Ethanol	10 kW
10 °C	Ethanol	7.6 kW
0 °C	Ethanol	5.3 kW
-10 °C	Ethanol	3.5 kW
-20 °C	Ethanol	2 kW
-25 °C	Ethanol	1.3 kW

Standard accessories

- 2 nipples 1" with screw cap G1/4 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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