

PRODUCT DATA SHEET

Standing: 2024-03-18

LAUDA Variocool VC 5000 W

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

Part Number: L000746

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.
-20 °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 | -20 ... 80 °C |
| Ambient temperature range | 5 ... 40 °C |
| Temperature stability | 0.05 ± K |
| Heater power max. | 4.5 kW |
| Power consumption max. | 7.8 kW |
| Current max. | 12 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 max. | 33 L |
| Water cooling connection thread (outside) | 3/4 " |
| Recommended cooling water temperature | 15 °C |
| Cooling water flow rate | 10 L/min |
| Pressure difference cooling water min. | 3 bar |
| Maximal pressure cooling water | 10 bar |
| Overall dimensions (WxDxH) | 550 x 650 x 970 mm |
| Weight | 97 kg |
| Refrigerant stage 1 | R-449A (GWP 1397); 1.100 kg; 1.5 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 | 5 kW |
| 10 °C | Ethanol | 3.9 kW |
| 0 °C | Ethanol | 2.75 kW |
| -10 °C | Ethanol | 1.7 kW |
| -20 °C | Ethanol | 0.9 kW |

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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