

PRODUCT DATA SHEET

Standing: 2023-02-17

LAUDA Variocool VC 10000 W

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

Part Number: L000985

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
- Operates with non flammable liquids (water, water/glycol)
- Condenser cooling Water



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. 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 | 0.1 ± K |
| Heater power max. | 7.5 kW |
| Power consumption max. | 11.1 kW |
| Current max. | 16 A |
| Pump Pressure max. | 5,0 bar |
| Pump flow rate max. (pressure) | 60 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 | 9.65 kW |
| 10 °C | Ethanol | 7.25 kW |
| 0 °C | Ethanol | 4.95 kW |
| -10 °C | Ethanol | 3.15 kW |
| -20 °C | Ethanol | 1.65 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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