

## PRODUCT DATA SHEET

Standing: 2021-07-20

LAUDA Variocool VC 7000 W

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

Part Number: L000747

### 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, 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
- 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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### 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.                         | 4.5 kW  |
| Power consumption max.                    | 8.8 kW  |
| Pump Pressure max.                        | 3.2 bar   |
| Pump flow rate pressure max.              | 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                   | 16.7 L/min  |
| Pressure difference cooling water min.    | 3 bar   |
| Maximal pressure cooling water            | 10 bar  |
| Refrigerant stage 1                       | R-452A (GWP 2140); 2.000 kg; 4.3 t CO <sub>2</sub> -eq  |
| Power supply                              | 400 V; 3/N/PE; 50 Hz                                    |
| Power plug                                | Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A) |

Reserve technical changes

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| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|----------------------|------------------------|
| 20 °C       | Ethanol              | 7 kW                   |
| 10 °C       | Ethanol              | 5.3 kW                 |
| 0 °C        | Ethanol              | 3.7 kW                 |
| -10 °C      | Ethanol              | 2.4 kW                 |
| -20 °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