

## PRODUCT DATA SHEET

Standing: 2022-08-05

### LAUDA Variocool VC 5000 W

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

Part Number: L001995

#### 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

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

T + 49 (0) 9343 503-0 • F + 49 (0) 9343 503-222  
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. WOBSEY Verwaltungs-GmbH  
Sitz Lauda-Königshofen  
Registergericht Mannheim • HRB 560226

Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

# PRODUCT DATA SHEET

Standing: 2022-08-05

LAUDA Variocool VC 5000 W

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

Part Number: L001995

## 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.                        | 5.0 bar   |
| Pump flow rate max. (pressure)            | 60 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 CO2-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

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

T + 49 (0) 9343 503-0 • F + 49 (0) 9343 503-222  
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. WOBSEY Verwaltungs-GmbH  
Sitz Lauda-Königshofen  
Registergericht Mannheim • HRB 560226

Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

## PRODUCT DATA SHEET

Standing: 2022-08-05

LAUDA Variocool VC 5000 W

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

Part Number: L001995

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|----------------------|------------------------|
| 20 °C       | Ethanol              | 4.65 kW                |
| 10 °C       | Ethanol              | 3.55 kW                |
| 0 °C        | Ethanol              | 2.4 kW                 |
| -10 °C      | Ethanol              | 1.35 kW                |
| -20 °C      | Ethanol              | 0.55 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

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

T + 49 (0) 9343 503-0 • F + 49 (0) 9343 503-222  
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. WOBSEY Verwaltungs-GmbH  
Sitz Lauda-Königshofen  
Registergericht Mannheim • HRB 560226

Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser