

PRODUCT DATA SHEET

Standing: 2025-07-24

LAUDA Variocool VC 5000 NRTL

400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz

Part Number: L002820

Features

- Process thermostat suitable for use with non-flammable heat transfer liquids
- NRTL certification to UL 1995:2018, CSA C22.2 no. 236-15 Ed.5th
- 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
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Fully electronic continuous controller with PID action
- Electronic level indication and low level alarm
- USB and Ethernet interface equipped as standard
- Remote fault indication through floating contact
- Slots for interface modules on the backside of the device
- Option for upgrading up to 2 additional interfaces (RS 232/485, Profibus, analogue, contact or EtherCAT module)
- Upgradeable with Pt 100/LiBus module for external control and remote control via Command Touch console
- Integrated programmer with max. 150 segments, splittable in 5 programmes
- Integrated web server for browser based operation in local area networks via PC, tablet or smart phone, secure data transfer due to authentication procedure and encryption
- Powerful pressure pump
- Adjustable bypass for pressure limiting
- Digital display of pump pressure
- Filler opening on top, drain tap on the backside
- Management of heat transfer liquids with stored properties
- Operates with non flammable liquids (water, water/glycol)
- Condenser cooling Air
- HARTING connector (4-pin) for connecting a mains cable



Reserve technical changes

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

T + 49 (0) 9343 503-0
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. Marc Stricker
Beirat: Dr. Gerhard Wobser

PRODUCT DATA SHEET

Standing: 2025-07-24

LAUDA Variocool VC 5000 NRTL

400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz

Part Number: L002820



Working temperature min.
-20 °C



Working temperature max.
80 °C

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 min.	7.5 kW
Heater power max.	10 kW
Current max.	16 A
Pump Pressure max. 50 Hz	5.3 bar
Flow rate max. (pressure) 50 Hz	56 L/min
Pump pressure max. 60 Hz	7.3 bar
Flow rate max. (pressure) 60 Hz	65 L/min
In / Outlet connection thread (outside)	G 3/4"
Pressure adjustment	bypass
Filling volume min.	14 L
Filling volume max.	24 L
Refrigerant stage 1	R-449A (GWP 1397); 1.100 kg; 1.5 t CO ₂ -eq
Protection rating	IP 32
Noise level	70 dB(A)
Overall dimensions (WxDxH)	550 x 650 x 1065 mm
Weight	118 kg
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	---
Certification	NRTL according to UL 1995:2018, CSA C22.2 No.236:2015

Reserve technical changes

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

T + 49 (0) 9343 503-0
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. Marc Stricker
Beirat: Dr. Gerhard Wobser

PRODUCT DATA SHEET

Standing: 2025-07-24

LAUDA Variocool VC 5000 NRTL

400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz

Part Number: L002820

Temperature	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
80 °C	Waterglycol	6.25 kW	6.15 kW
20 °C	Ethanol	5 kW	5.6 kW
10 °C	Ethanol	3.6 kW	4 kW
0 °C	Ethanol	2.35 kW	2.65 kW
-10 °C	Ethanol	1.3 kW	1.5 kW
-20 °C	Ethanol	0.5 kW	0.55 kW

Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for pump connectors
- 1 Mains cable (HARTING, 4-pin) without plug, length: 4 meters
- 1 Mains plug, IEC 60309, 5-pol, CEE, red, 16 A
- 1 Mains plug, NEMA L16-20P T-L 460 V; 20 A

Reserve technical changes

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

T + 49 (0) 9343 503-0
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. Marc Stricker
Beirat: Dr. Gerhard Wobser

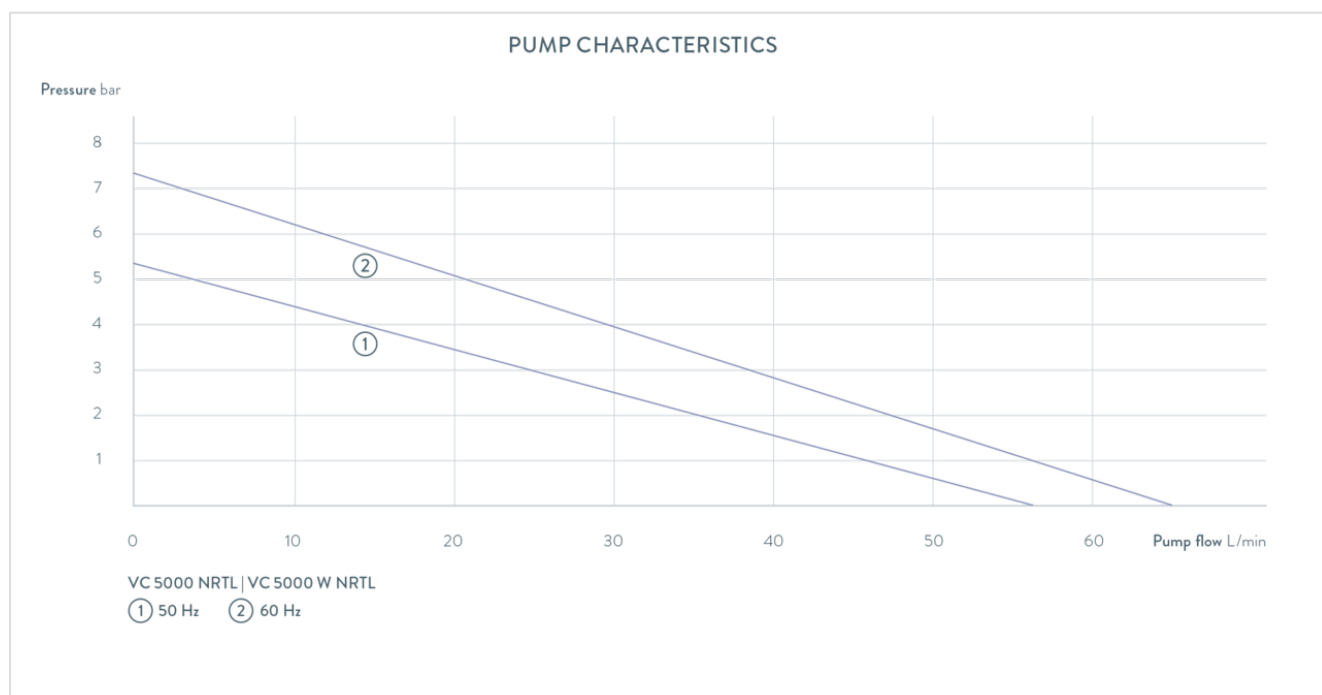
PRODUCT DATA SHEET

Standing: 2025-07-24

LAUDA Variocool VC 5000 NRTL

400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz

Part Number: L002820



Reserve technical changes

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

T + 49 (0) 9343 503-0
 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. Marc Stricker
 Beirat: Dr. Gerhard Wobser