

PRODUCT DATA SHEET

Published: 2025-10-30

LAUDA Universa U 16 P

Heating thermostat 100-125 V; 50/60 Hz

Part Number: L003947

Features

- Bath circulation thermostat with advanced electronics ensures precise control accuracy
- Future-proof thanks to modularity: LAUDA Universa with interchangeable control head and heating/cooling base allows flexible adaptation to current and future requirements.
- Clear overview, intuitive operation: The 3,5-inch colour TFT display provides a progression graph, offers a clear menu navigation in six languages and easy to read operating status icons - easily controlled via cursor and soft keys.
- Focus on safety: The dedicated Tmax button provides convenient access to the essential overtemperature protection setting during commissioning.
- Efficient vario pump with six adjustable performance levels. The flexible flow distribution for internal and external circulation ensures optimum volume flow and pressure.
- Easily accessible front switch on the control head allows the pump output to be adjusted during operation.
- Adaptive bath edge ventilation (patent application): - Prevents icing and condensation - Stops water entering the bath - Blocks vapors to protect electronics. To increase operational safety and extend service life.
- Features include programmer, calibration options and weekly scheduler for versatile and precise process control.
- Intelligent remote control and monitoring: Integrated web server allows flexible remote control in the company network via the LAUDA Command app or browser-based, secured by PKI and 2-factor authentication. The connection to LAUDA.LIVE enables global, cloud-based data analysis and remote maintenance.
- Flexible networking: Modern connectivity through integrated Ethernet and USB interfaces as standard, plus eleven optional interface modules for versatile communication solutions.
- Wireless communication: Integrated WLAN enables effortless connection with PC, tablet and smartphone.
- Comprehensive safety concept: - Reliable low-level protection with float technology, - Adjustable overtemperature protection with acoustic alarm, - Smart temperature control media management with automatic limit value adjustment. For reliable operation and improved safety of your valuable samples.



Reserve technical changes

Options included

- Integrated Wi-Fi communication: The device may only be imported and used in certified countries and regions: United States of America, Canada, EU including the UK and Switzerland, and India.

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Registergericht Mannheim • HRB 560226

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

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Working temperature min.
40 °C



Working temperature max.
200 °C

Technical Features

Working temperature range	40 ... 200 °C
Working temperature range with external cooling	20 ... 200 °C
Operating temperature range	-30 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.01 ± K
Heating capacity range	1.1 ... 1.5 kW
Current max.	12 A
Size of bath (W x D x H)	200 x 300 x 200 mm
Bath opening (WxT)	200 x 300 mm
Bath volume min. / max.	11.5 / 17.0 L
Pump Pressure max.	0,6 bar
Pump flow rate max. (pressure)	22 L/min
In / Outlet connection thread (outside)	M16 x 1
Overall dimensions (WxDxH)	280 x 550 x 476 mm
Weight	18 kg
Power supply	100-125 V; 50/60 Hz
Power plug	Power cord with plug (NEMA 5-15P)
Certification	NRTL according to UL 61010-1:2012/R:2023-06, UL 61010-2-010:2019, CSA C22.2 No. 61010-1:2012/U3:2023-06, CSA C22.2 No. 61010-2-010:2019

Reserve technical changes

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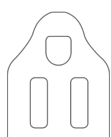
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Power cord with plug (NEMA 5-15P)

Standard accessories

- Cooling coil with M16x1 stainless steel connections and plastic caps
- 2 nipples 13 mm for pump connectors

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HEATING PERFORMANCE Heat transfer liquid: Water

Bath temperature °C



- 1 U 4 P
- 2 U 8 P
- 3 U 16 P
- 4 U 40 P

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PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



- 1 Stage 1
- 2 Stage 2
- 3 Stage 3
- 4 Stage 4
- 5 Stage 5
- 6 Stage 6

Flow rate L/min

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