

## PRODUCT DATA SHEET

Published: 2025-10-30

LAUDA Universa U 8 P

Heating thermostat 100-125 V; 50/60 Hz

Part Number: L003946

### 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

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

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### 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.



Working temperature min.  
40 °C



Working temperature max.  
200 °C

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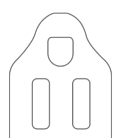
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### Technical Features

|                                                 |                                                                                                                                         |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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)                        | 150 x 150 x 200 mm                                                                                                                      |
| Bath opening (WxT)                              | 150 x 150 mm                                                                                                                            |
| Bath volume min. / max.                         | 5.8 / 8.5 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)                      | 230 x 400 x 476 mm                                                                                                                      |
| Weight                                          | 15 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 |

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Power cord with plug (NEMA 5-15P)

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### Standard accessories

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

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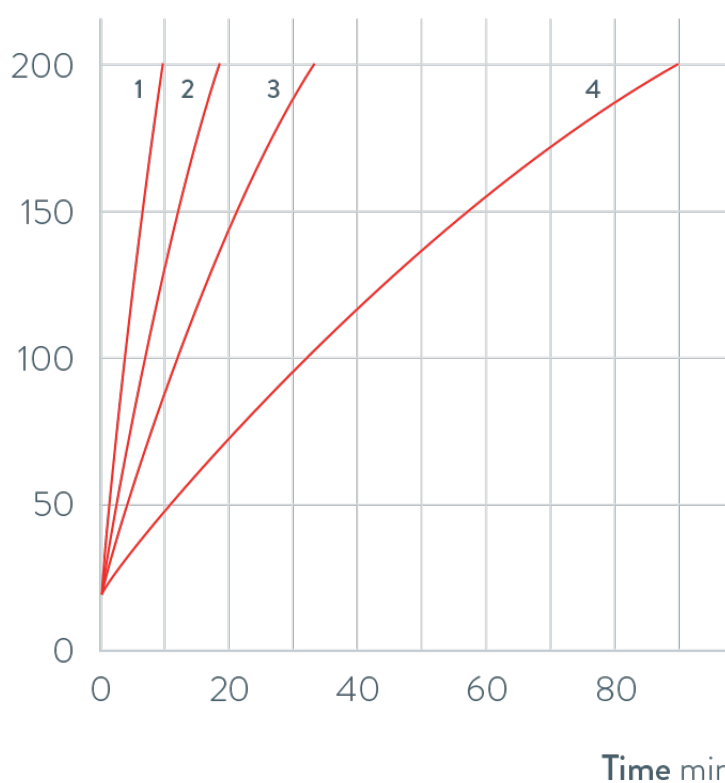
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### HEATING PERFORMANCE Heat transfer liquid: Water

Bath temperature °C



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

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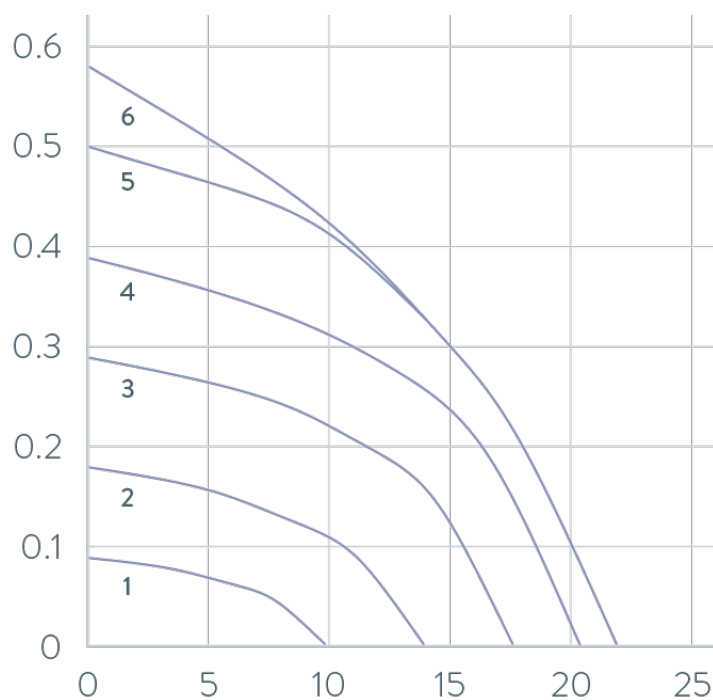
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



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

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