

PRODUCT DATA SHEET

Published: 2026-03-19

LAUDA Universa U 12 M

Heating thermostat 100-125 V; 50/60 Hz

Part Number: L003862

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 5-inch colour TFT display simultaneously shows temperature values with a progression graph, offers clear menu navigation in six languages and clear 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.
- Versatile pressure-suction pump: The LAUDA Varioflex pump, a powerful pressure-suction pump, offers eight selectable performance levels, adjustable flow rate distribution for internal/external circulation for optimal 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.
- Extensive functionality with programmer, safe mode, calibration options, controller self-adaptation and weekly planner for precise and flexible process control.
- Wireless communication: Integrated WLAN enables effortless connection with PC, tablet and smartphone.
- 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.
- Maximum networking: Comprehensive connectivity for almost any application thanks to standard Ethernet, USB and interface for an external Pt100 as well as eleven optional interface modules.
- Comprehensive safety functions: - Effective over- and under-level protection - Adjustable overtemperature protection with acoustic alarm - Automatic system diagnostics at start-up with alarm and error message display - Smart temperature control media management with automatic limit value adjustment. For reliable operation and improved safety of your valuable samples.



Reserve technical changes

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Kommanditgesellschaft: Sitz Lauda-Königshofen
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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.
70 °C



Working temperature max.
300 °C

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Technical Features

| | |
|---|---|
| Working temperature range | 70 ... 300 °C |
| Working temperature range with external cooling | 20 ... 300 °C |
| Operating temperature range | -30 ... 300 °C |
| Ambient temperature range | 5 ... 40 °C |
| Temperature stability | 0.01 ± K |
| Heating capacity range | 1.4 ... 2.0 kW |
| Power consumption max. | 2 kW |
| Current max. | 16 A |
| Size of bath (W x D x H) | 200 x 200 x 200 mm |
| Bath opening (WxT) | 200 x 200 mm |
| Bath volume min. / max. | 8.5 / 13.0 L |
| Pump Pressure max. | 0,7 bar |
| Pump suction max. | 0,4 bar |
| Pump flow rate max. (pressure) | 25 L/min |
| Pump Flow rate max. (suction) | 23 L/min |
| In / Outlet connection thread (outside) | M16 x 1 |
| In / Outlet Ø olives | 13 mm |
| Overall dimensions (WxDxH) | 280 x 450 x 497 mm |
| Weight | 20 kg |
| Power supply | 100-125 V; 50/60 Hz |
| Power plug | Power cord with plug (NEMA 5-20P) |
| 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 5-20P)

Standard accessories

- 1 Bath cover
- Pump connection set with M16x1 stainless steel connections
- Cooling coil with M16x1 stainless steel connections
- 2 hose olives 13.5 mm, 2 union nuts

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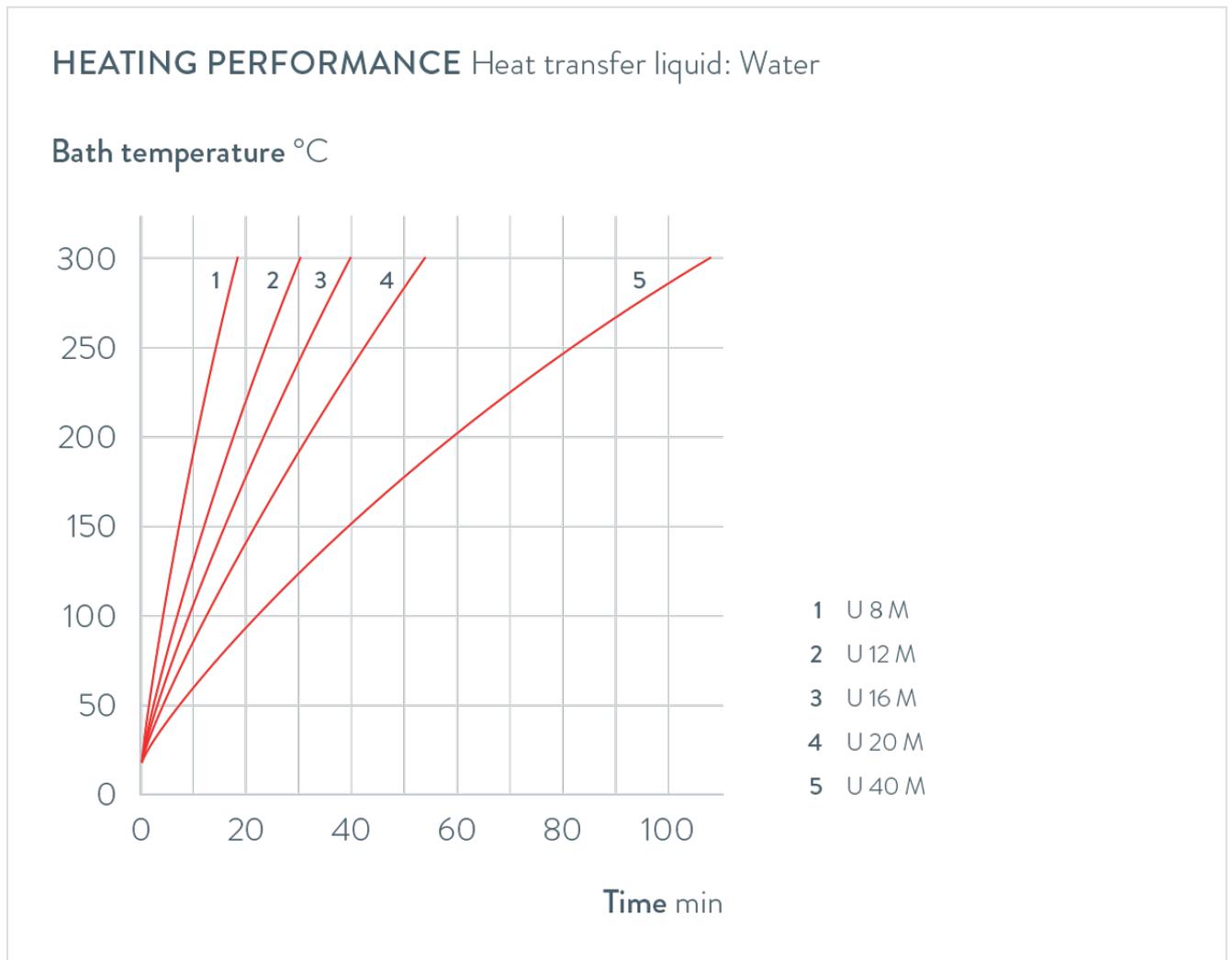
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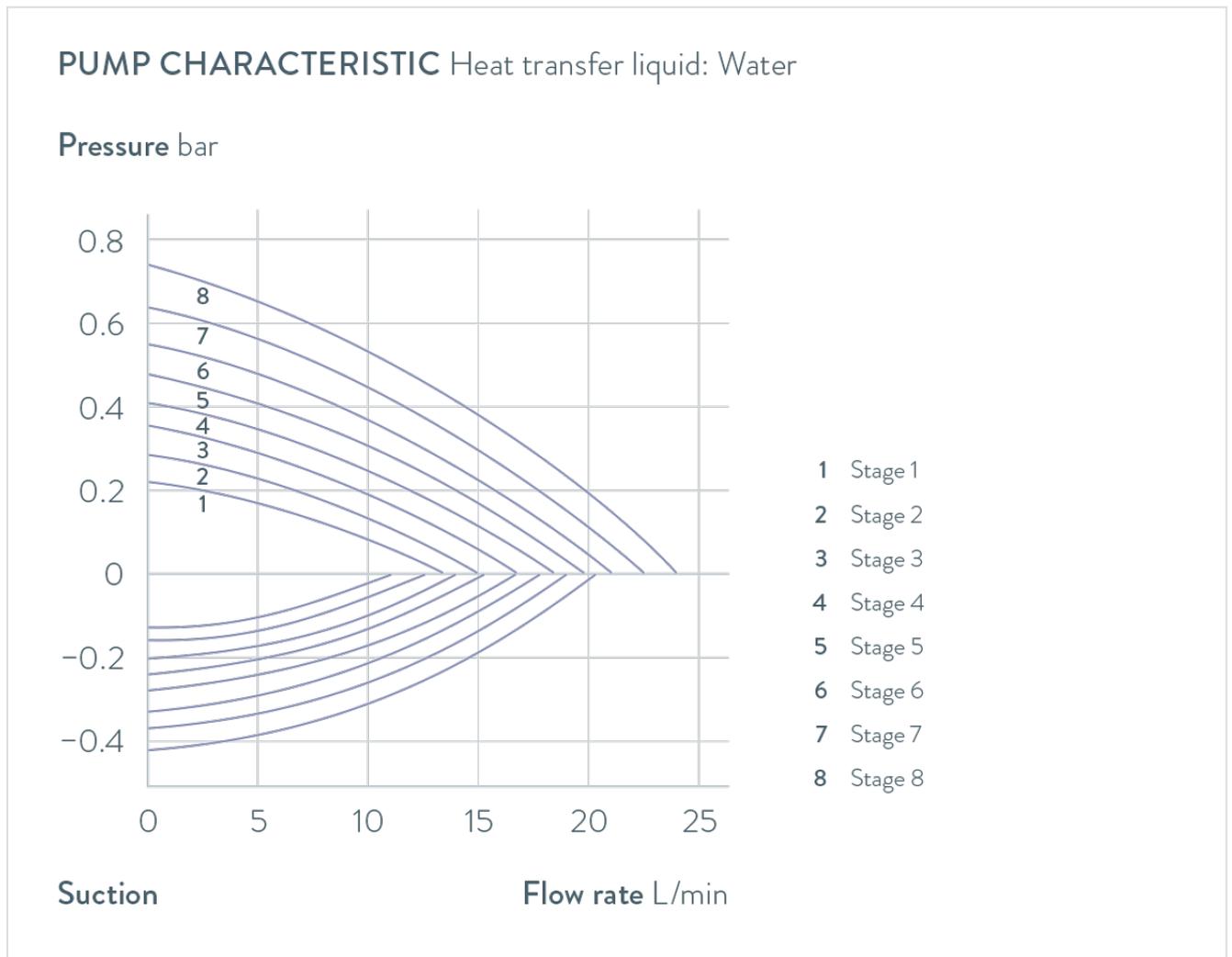
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