

PRODUCT DATA SHEET

Published: 2026-03-19

LAUDA Universa U 845 M

Cooling thermostat 100-125 V; 50/60 Hz

Part Number: L003865

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.
- Highly efficient refrigeration technology: Combination of speed-controlled inverter compressor and capacity control by means of electronic expansion valves and speed-controlled fans - for improved energy efficiency and reduced operating costs, - increased service life by avoiding frequent switch-on and switch-off cycles, - dynamic approach to the set temperature and - quieter operation.
- Environmentally friendly refrigerants: Use of natural refrigerants for sustainable and environmentally conscious cooling.
- 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.
- 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.
- Wireless communication: Integrated WLAN enables effortless connection with PC, tablet and smartphone.



Reserve technical changes

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Registergericht Mannheim • HRB 560226

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

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- 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.

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.
-45 °C



Working temperature max.
200 °C

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Technical Features

| | |
|---|--|
| Working temperature range | -45 ... 200 °C |
| Operating temperature range | -45 ... 200 °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) | 150 x 150 x 200 mm |
| Bath opening (WxT) | 150 x 150 mm |
| Bath volume min. / max. | 5.0 / 8.0 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) | 310 x 490 x 757 mm |
| Weight | 45 kg |
| Refrigerant stage 1 | R-290 (GWP 3); 0.080 kg; 0.0 t CO ₂ -eq |
| 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 61010-2-011:2021, CSA C22.2 No. 61010-1:2012/U3:2023-06, CSA C22.2 No. 61010-2-011:2019 UL 61010-1:2012/R:2023-06, UL 61010-2-010:2019, CSA C22.2 No. 61010-1:2012/U3:2023-06, CSA C 22.2 No. 61010-2-010:2019 |

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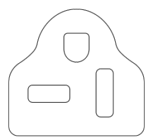
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Power cord with plug (NEMA 5-20P)

| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|------------------------|
| 200 °C | 8 | Thermal oil | 0.8 kW | 0.8 kW |
| 100 °C | 8 | Thermal oil | 0.8 kW | 0.8 kW |
| 20 °C | 8 | Ethanol | 0.8 kW | 0.8 kW |
| 10 °C | 8 | Ethanol | 0.73 kW | 0.73 kW |
| 0 °C | 8 | Ethanol | 0.7 kW | 0.7 kW |
| -10 °C | 8 | Ethanol | 0.59 kW | 0.59 kW |
| -20 °C | 4 | Ethanol | 0.44 kW | 0.44 kW |
| -30 °C | 4 | Ethanol | 0.26 kW | 0.26 kW |
| -40 °C | 4 | Ethanol | 0.12 kW | 0.12 kW |
| -45 °C | 4 | Ethanol | 0.05 kW | 0.05 kW |

Reserve technical changes

Standard accessories

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

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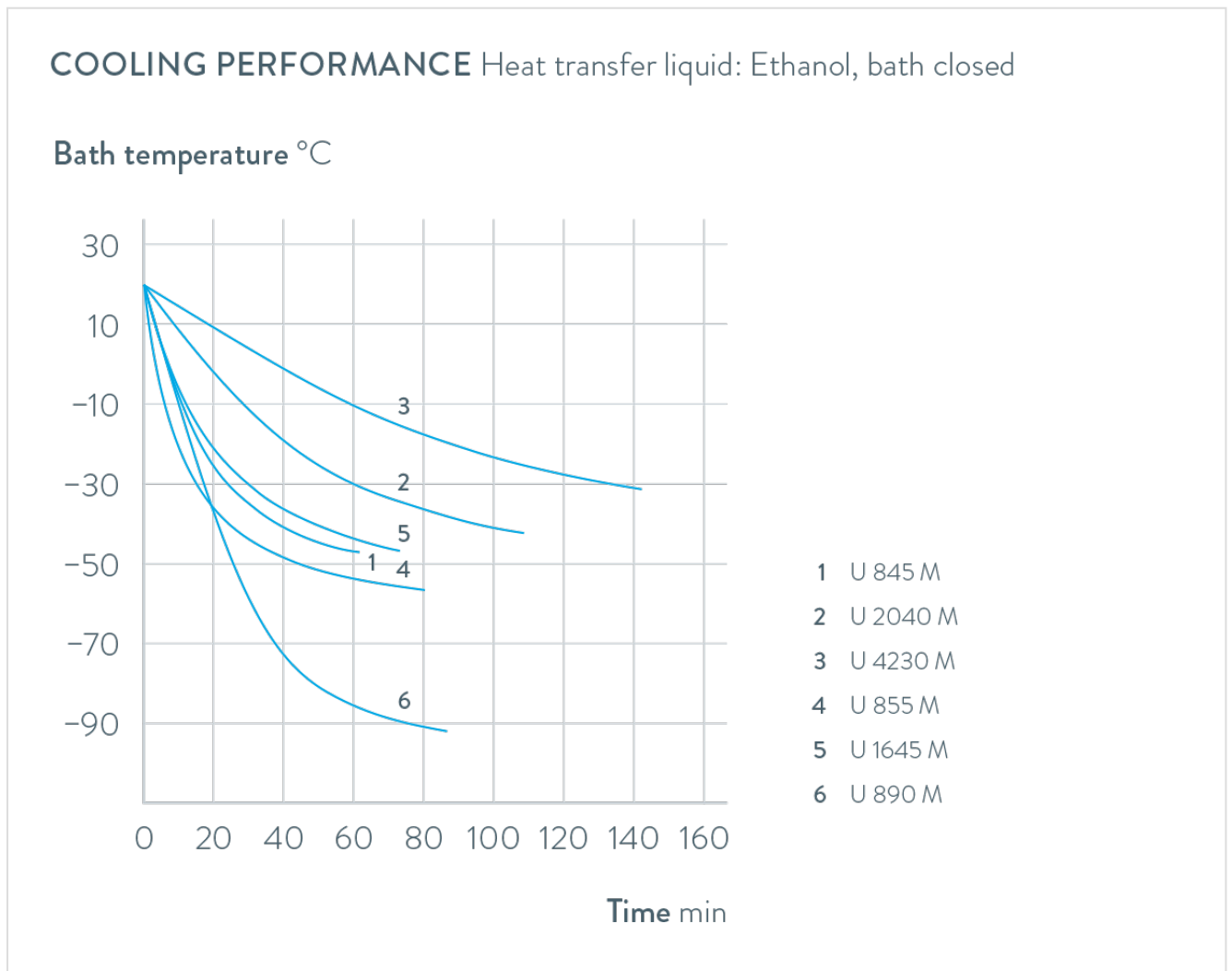
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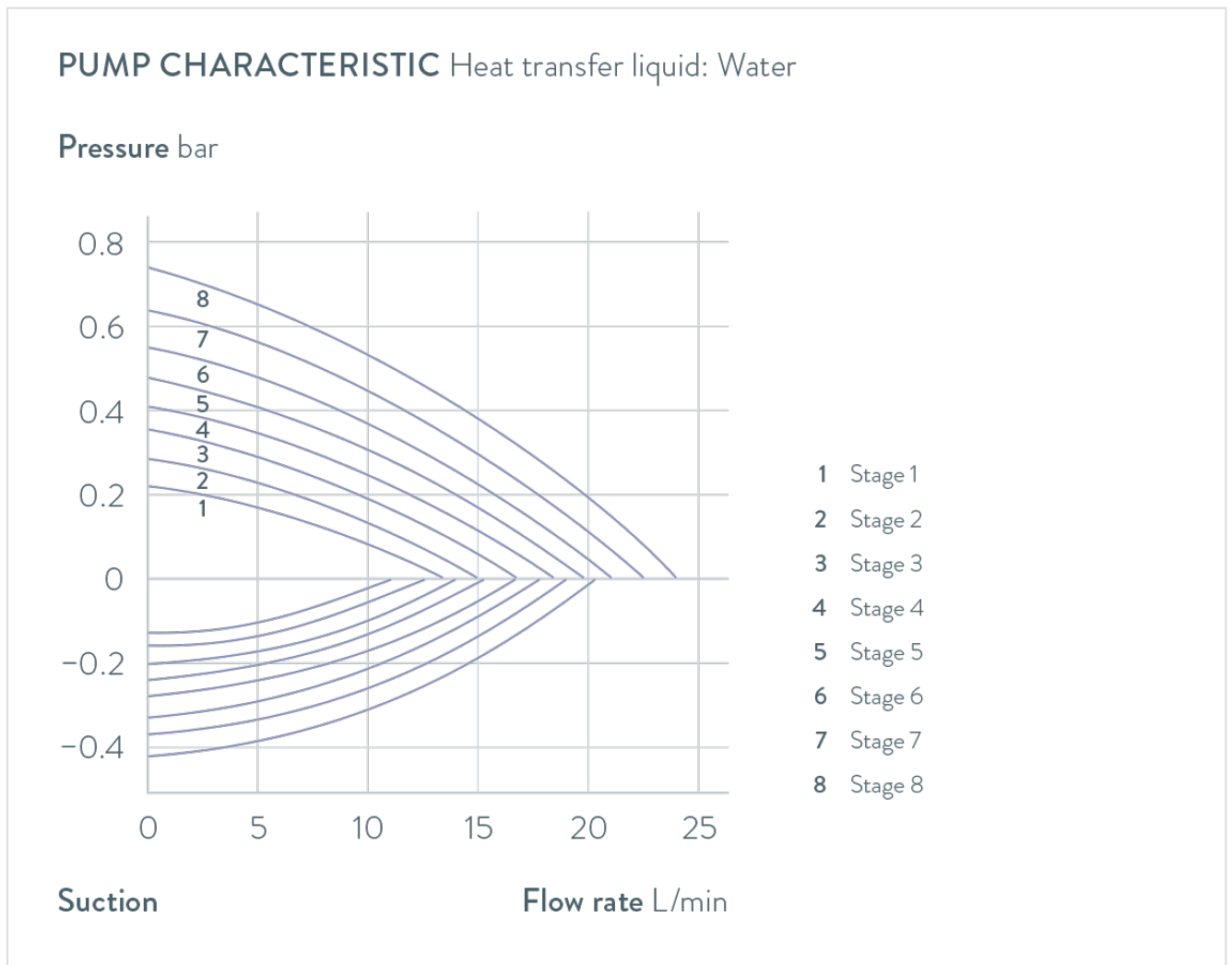
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