

PRODUCT DATA SHEET

Published: 2026-04-28

LAUDA Universa U 830 E

Cooling thermostat 220-240 V; 50/60 Hz

Part Number: L003971

Features

- Bath circulation thermostat for standard temperature control tasks up to 100 °C – reliable and intuitive to use.
- Future-proof thanks to modularity: LAUDA Universa with interchangeable control head and heating/cooling base allows flexible adaptation to current and future requirements.
- Bright VA LC display with clear two-line display and intuitive 3-button operation.
- Reliable circulation pump with flow reduction for adjusted volume flow and constant pressure.
- Energy-efficient refrigeration system: capillary tube technology with speed-controlled inverter compressor and speed-controlled fan - for reduced energy costs and a long service life.
- Environmentally friendly refrigerants: Use of natural refrigerants for sustainable and environmentally conscious cooling.
- Integrated timer with countdown function for time-controlled temperature control processes.
- 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.
- Modern connectivity thanks to standard integrated Ethernet and USB interfaces for reliable data communication.
- Wireless communication: Integrated WLAN enables effortless connection with PC, tablet and smartphone.
- Proven safety features: low-level and overheating protection for operation with non-flammable liquids, audible and visual alarm signals.



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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Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
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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.
-30 °C



Working temperature max.
100 °C

Technical Features

| | |
|--------------------------------|--|
| Working temperature range | -30 ... 100 °C |
| Operating temperature range | -30 ... 100 °C |
| Ambient temperature range | 5 ... 40 °C |
| Temperature stability | 0.05 ± K |
| Heating capacity range | 1.6 ... 2.2 kW |
| Power consumption max. | 2.4 kW |
| Current max. | 10 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. | 6.4 / 8.5 L |
| Pump Pressure max. | 0,2 bar |
| Pump flow rate max. (pressure) | 15 L/min |
| Overall dimensions (WxDxH) | 260 x 480 x 630 mm |
| Weight | 28 kg |
| Refrigerant stage 1 | R-600a (GWP 3); 0.030 kg; 0.0 t CO2-eq |
| Power supply | 220-240 V; 50/60 Hz |
| Power plug | Power cord with angled plug (CEE7/7) |

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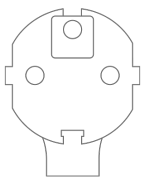
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Power cord with angled plug (CEE7/7)

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|----------------------|------------------------|------------------------|
| 20 °C | Ethanol | 0.3 kW | 0.3 kW |
| 10 °C | Ethanol | 0.275 kW | 0.275 kW |
| 0 °C | Ethanol | 0.23 kW | 0.23 kW |
| -10 °C | Ethanol | 0.175 kW | 0.175 kW |
| -20 °C | Ethanol | 0.1 kW | 0.1 kW |
| -30 °C | Ethanol | 0.01 kW | 0.01 kW |

Reserve technical changes

Standard accessories

- 1 Bath cover

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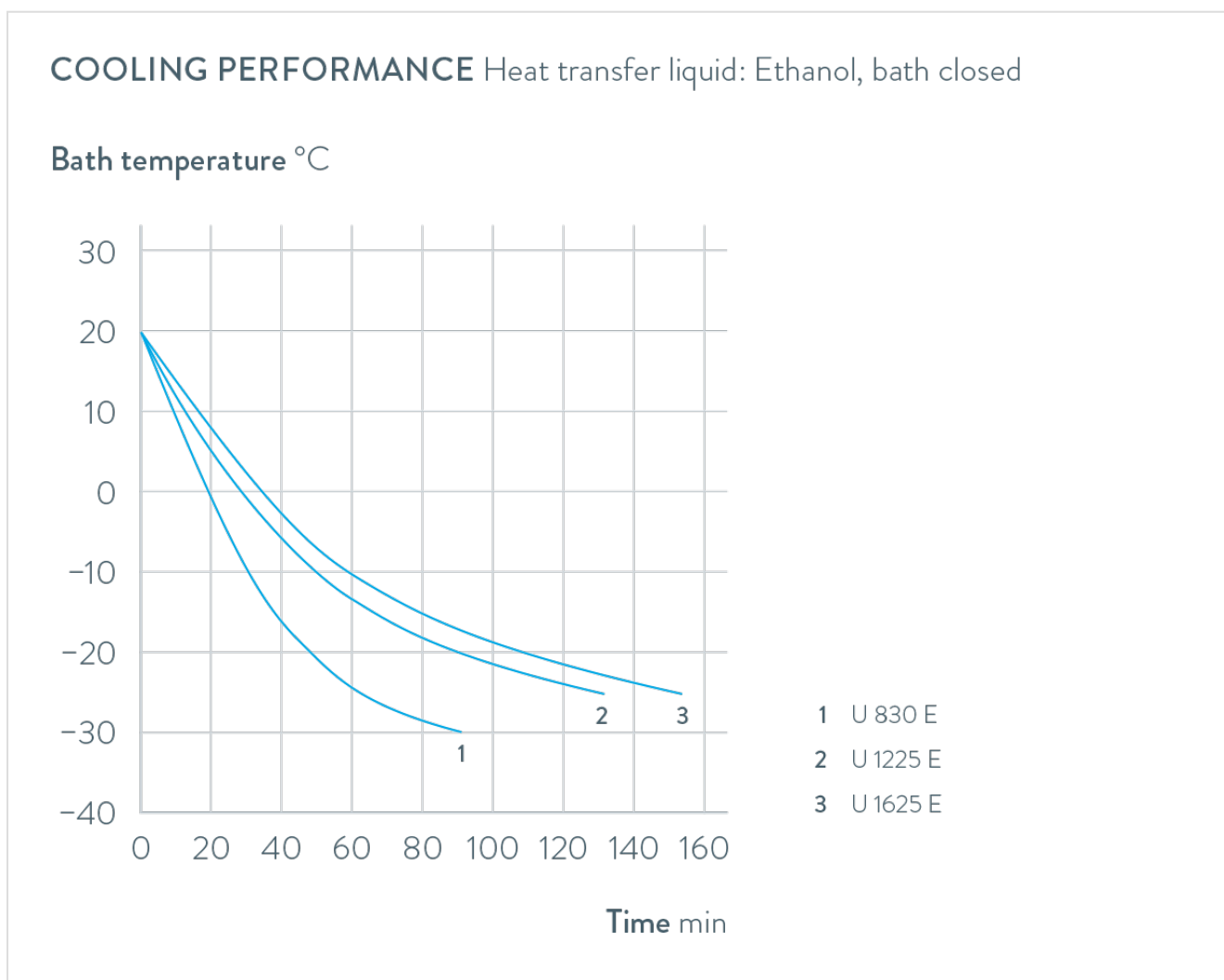
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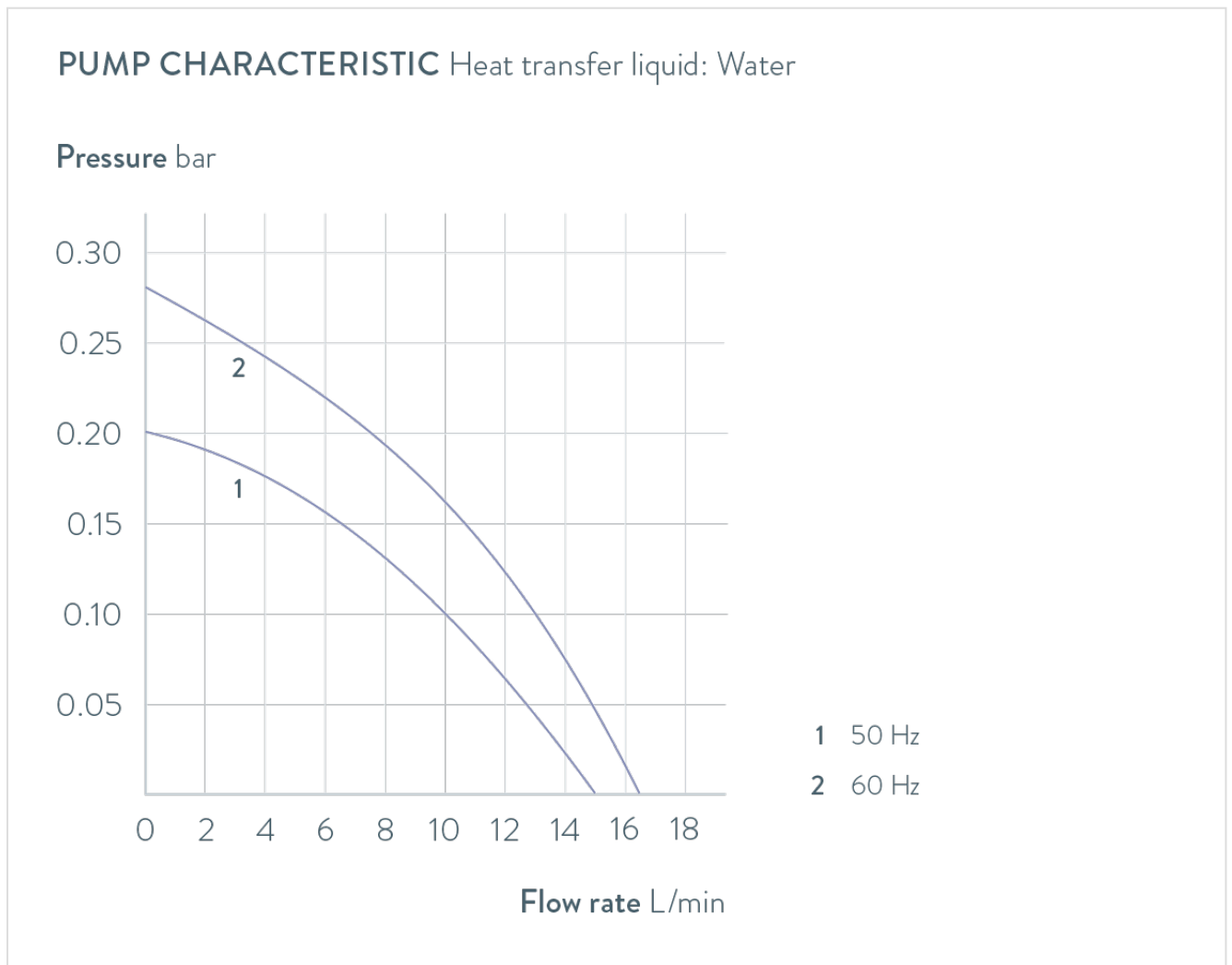
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