

PRODUCT DATA SHEET

Published: 2026-03-18

LAUDA Universa U 830 E

Cooling thermostat 100 V; 50/60 Hz

Part Number: L004293

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.
- Proven safety features: low-level and overheating protection for operation with non-flammable liquids, audible and visual alarm signals.



Reserve technical changes



Working temperature min.
-30 °C



Working temperature max.
100 °C

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

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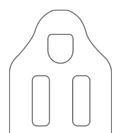
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Technical Features

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	1.0 ... 1.0 kW
Power consumption max.	1.2 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.	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	100 V; 50/60 Hz
Power plug	Power cord with plug (NEMA 5-15P)

Reserve technical changes



Power cord with plug (NEMA 5-15P)

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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

Standard accessories

- 1 Bath cover

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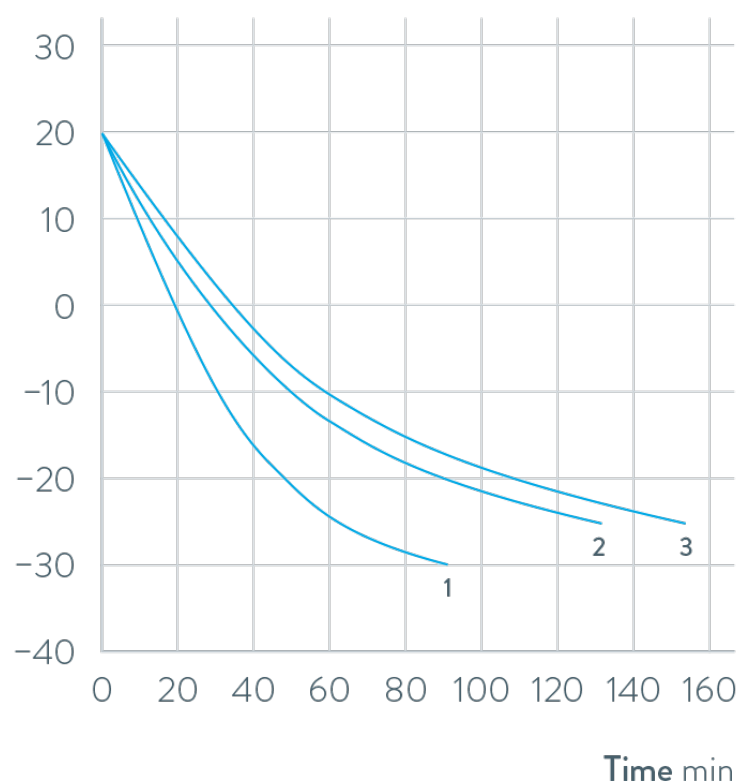
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COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



- 1 U 830 E
- 2 U 1225 E
- 3 U 1625 E

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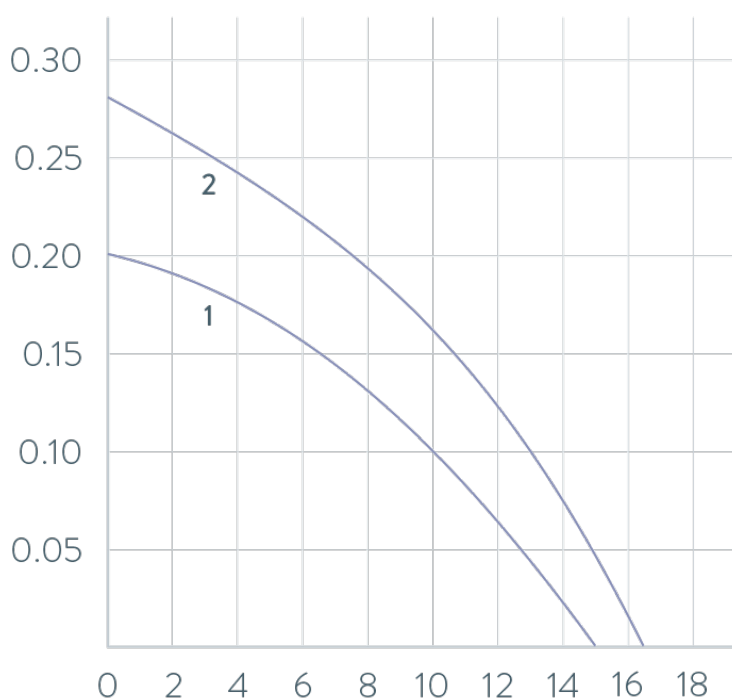
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PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



1 50 Hz

2 60 Hz

Flow rate L/min

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