

PRODUCT DATA SHEET

Published: 2026-03-11

LAUDA Universa U 420 P

Cooling thermostat 220-240 V; 50/60 Hz

Part Number: L003939

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.
- 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.
- 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.



Reserve technical changes

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- 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.

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.
-20 °C



Working temperature max.
200 °C

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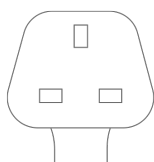
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Technical Features

Working temperature range	-20 ... 200 °C
Operating temperature range	-20 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.02 ± K
Heating capacity range	2.3 ... 2.8 kW
Power consumption max.	2.9 kW
Current max.	12 A
Size of bath (W x D x H)	130 x 100 x 160 mm
Bath opening (WxT)	130 x 100 mm
Bath volume min. / max.	1.8 / 4.0 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)	210 x 410 x 616 mm
Weight	26 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 (BS1363)

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Power cord with angled plug (BS1363)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
20 °C	6	Ethanol	0.2 kW	0.2 kW
10 °C	6	Ethanol	0.19 kW	0.19 kW
0 °C	6	Ethanol	0.18 kW	0.18 kW
-10 °C	6	Ethanol	0.14 kW	0.14 kW
-20 °C	3	Ethanol	0.07 kW	0.07 kW

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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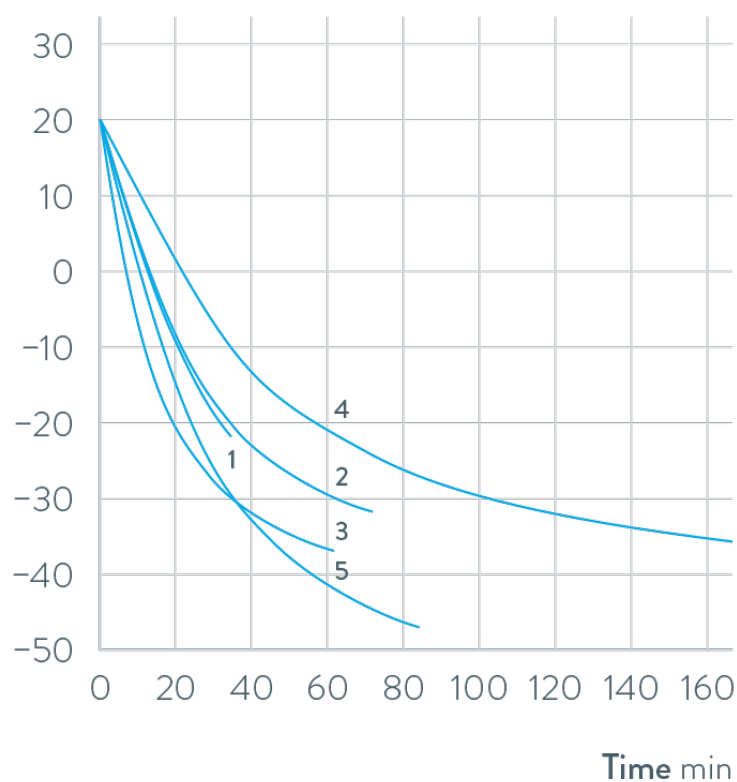
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COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



- 1 U 420 P
- 2 U 630 P
- 3 U 635 P
- 4 U 1635 P
- 5 U 1245 P

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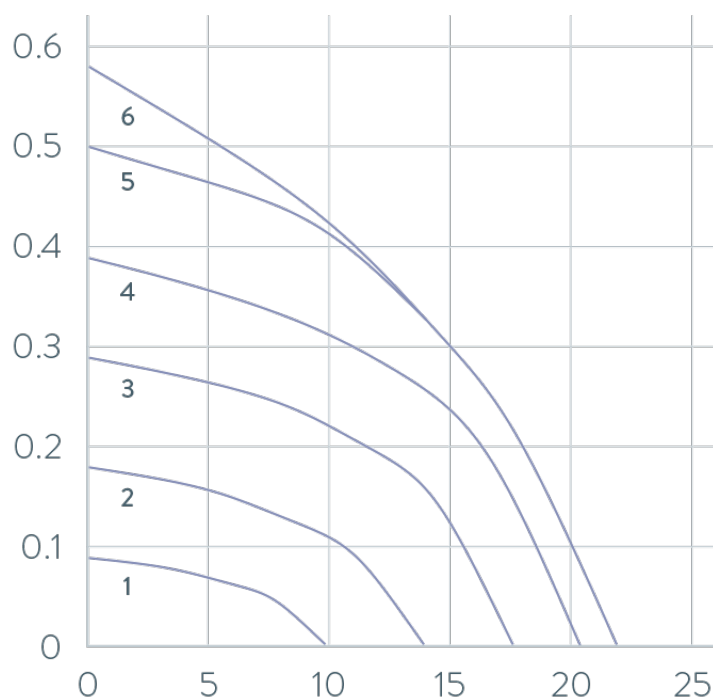
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PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



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

Flow rate L/min

Reserve technical changes



WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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