PRODUCT DATA SHEET

Standing: 2025-06-10

LAUDA Universa U 845 P
Cooling thermostat, 200-240 V; 50/60 Hz
Part Number: L003959

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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.
- 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.
- 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 ten optional interface modules for versatile communication solutions.
- Wireless communication: Integrated WLAN enables effortless connection with PC, tablet and smartphone.

Reserve technical changes

LAUDA DR. R. WOBSER GMBH & CO. KG
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Kommanditgesellschaft: Sitz Lauda-Königshofen
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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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- 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.



Working temperature min.
-45 °C



Working temperature max.
200 °C

Technical Features	
Working temperature range	-45 ... 200 °C
Operating temperature range	-45 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.02 ± K
Heating capacity range	1.9 ... 2.8 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.	5.0 / 8.0 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)	310 x 490 x 736 mm
Weight	43 kg
Refrigerant stage 1	R-290 (GWP 3); 0.080 kg; 0.0 t CO2-eq
Power supply	200-240 V, 50/60 Hz
Power plug	Power cord with angled plug (CEE7/7)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	6	Thermal oil	0.8 kW	0.8 kW
100 °C	6	Thermal oil	0.8 kW	0.8 kW
20 °C	6	Ethanol	0.8 kW	0.8 kW
10 °C	6	Ethanol	0.73 kW	0.73 kW
0 °C	6	Ethanol	0.7 kW	0.7 kW
-10 °C	6	Ethanol	0.59 kW	0.59 kW
-20 °C	3	Ethanol	0.44 kW	0.44 kW
-30 °C	3	Ethanol	0.26 kW	0.26 kW
-40 °C	3	Ethanol	0.12 kW	0.12 kW
-45 °C	3	Ethanol	0.05 kW	0.05 kW

Standard accessories

- 1 Bath cover
- Pump connection set with M16x1 stainless steel connections
- 2 screw caps, 2 closing plugs

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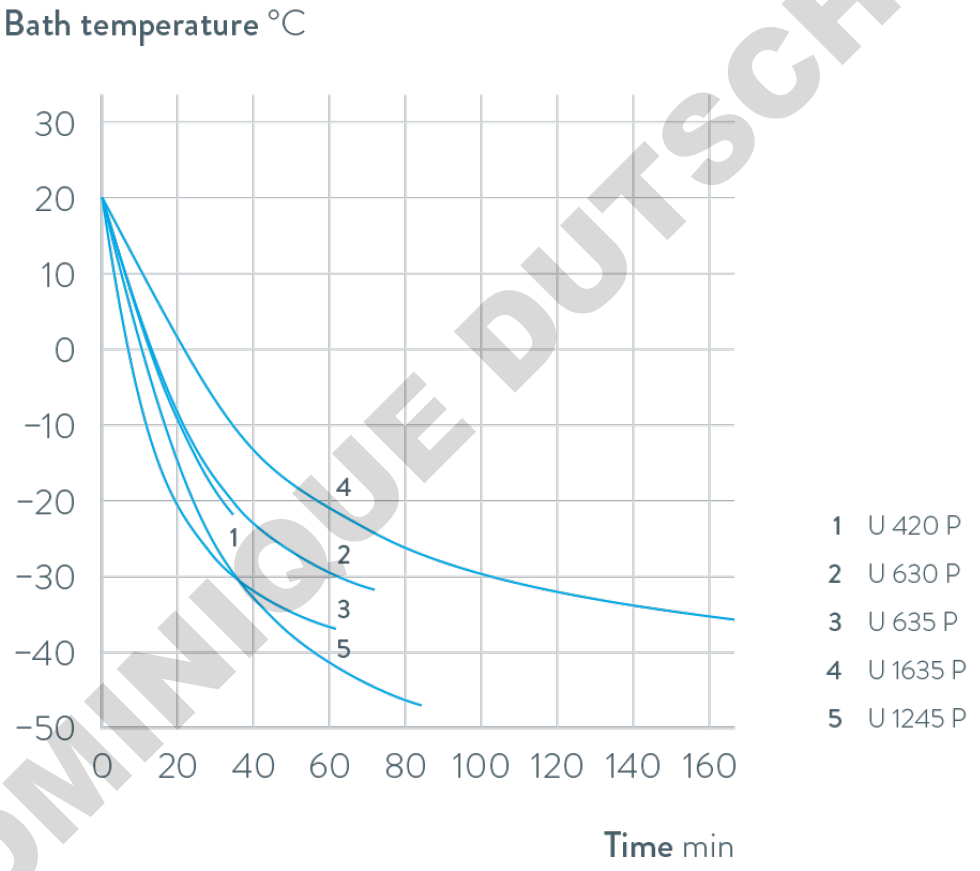
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COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed



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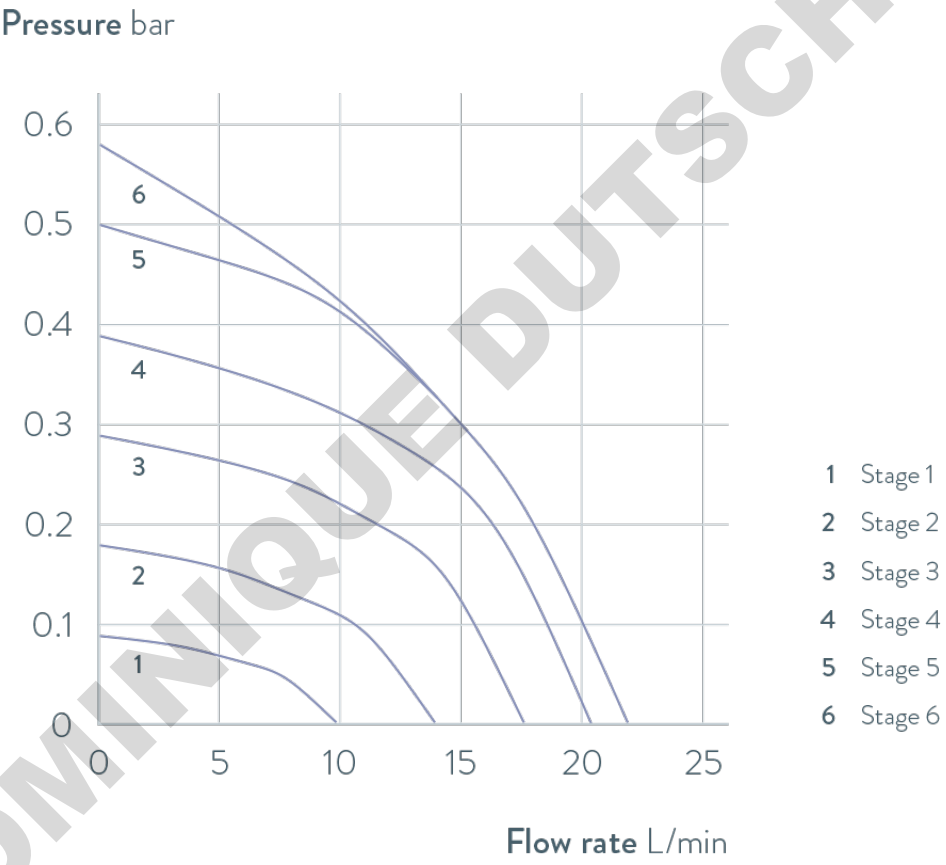
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PUMP CHARACTERISTIC Heat transfer liquid: Water



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