PRODUCT DATA SHEET

Standing: 2025-06-02

LAUDA Universa U 635 P
Cooling thermostat, 220-240 V; 50/60 Hz
Part Number: L003900

DOMINIQUE DUTSCHER SAS



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

Reserve technical changes

LAUDA DR. R. WOBSER GMBH & CO. KG
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WEEE-Reg-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
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Sitz Lauda-Königshofen
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.
-35 °C



Working temperature max.
200 °C

Technical Features	
Working temperature range	-35 ... 200 °C
Operating temperature range	-35 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.02 ± K
Heating capacity range	2.3 ... 2.8 kW
Current max.	12 A
Size of bath (W x D x H)	130 x 150 x 160 mm
Bath opening (WxT)	130 x 150 mm
Bath volume min. / max.	3.2 / 5.7 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)	290 x 480 x 646 mm
Weight	34 kg
Refrigerant stage 1	R-290 (GWP 3); 0.052 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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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	6	Thermal oil		
100 °C	6	Thermal oil		
20 °C	6	Ethanol	0.5 kW	0.5 kW
10 °C	6	Ethanol	0.5 kW	0.5 kW
0 °C	6	Ethanol	0.47 kW	0.47 kW
-10 °C	6	Ethanol	0.3 kW	0.3 kW
-20 °C	3	Ethanol	0.17 kW	0.17 kW
-30 °C	3	Ethanol	0.06 kW	0.06 kW
-35 °C	3	Ethanol	0.02 kW	0.02 kW

Standard accessories

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

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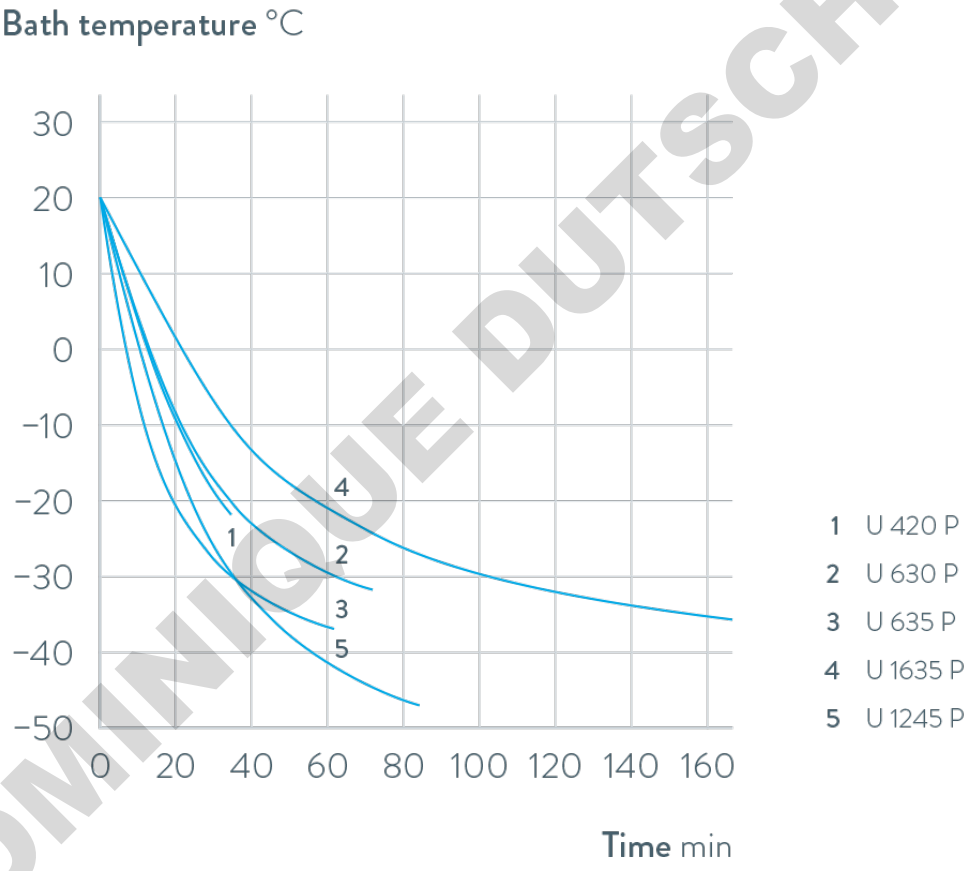
LAUDA Universa U 635 P

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COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed



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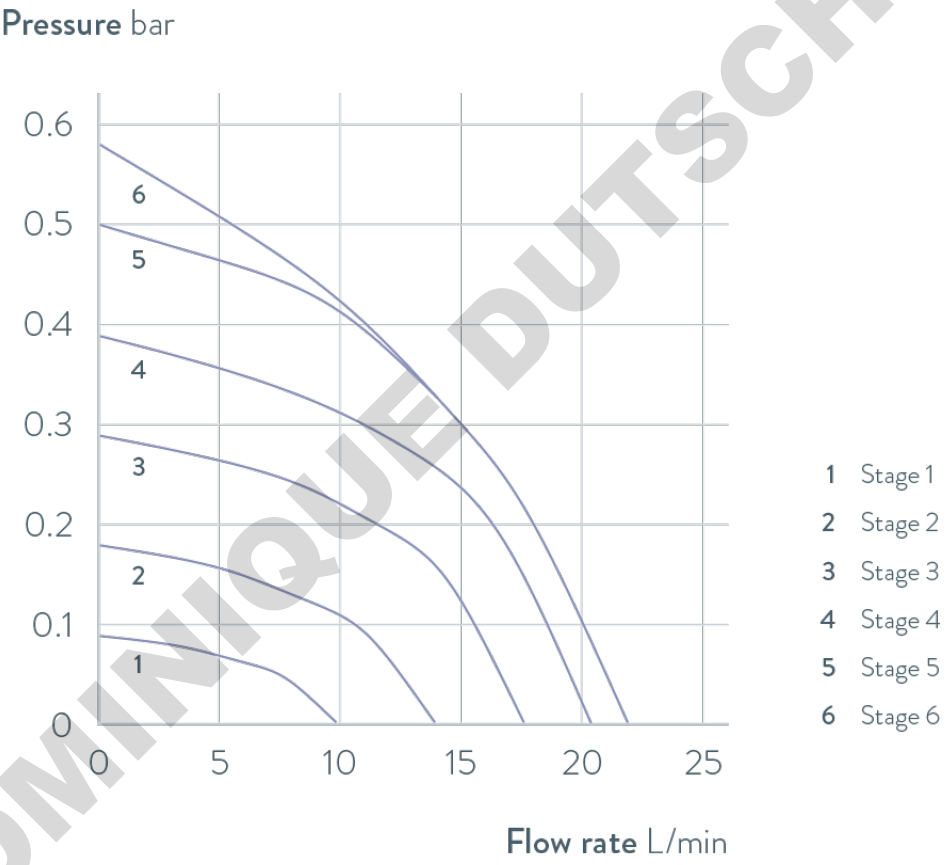
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PUMP CHARACTERISTIC Heat transfer liquid: Water



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