# PRODUCT DATA SHEET

Standing: 2025-06-02

## LAUDA Universa U 1635 P
## Cooling thermostat, 220-240 V; 50/60 Hz
## Part Number: L003902

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

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WEEE-Reg-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

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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.
-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) | 200 x 300 x 200 mm |
| Bath opening (WxT) | 200 x 300 mm |
| Bath volume min. / max. | 11.0 / 16.5 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 610 x 736 mm |
| Weight | 41 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 | 0.47 kW | 0.47 kW |
| 0 °C | 6 | Ethanol | 0.43 kW | 0.43 kW |
| -10 °C | 6 | Ethanol | 0.37 kW | 0.37 kW |
| -20 °C | 3 | Ethanol | 0.15 kW | 0.15 kW |
| -30 °C | 3 | Ethanol | 0.05 kW | 0.05 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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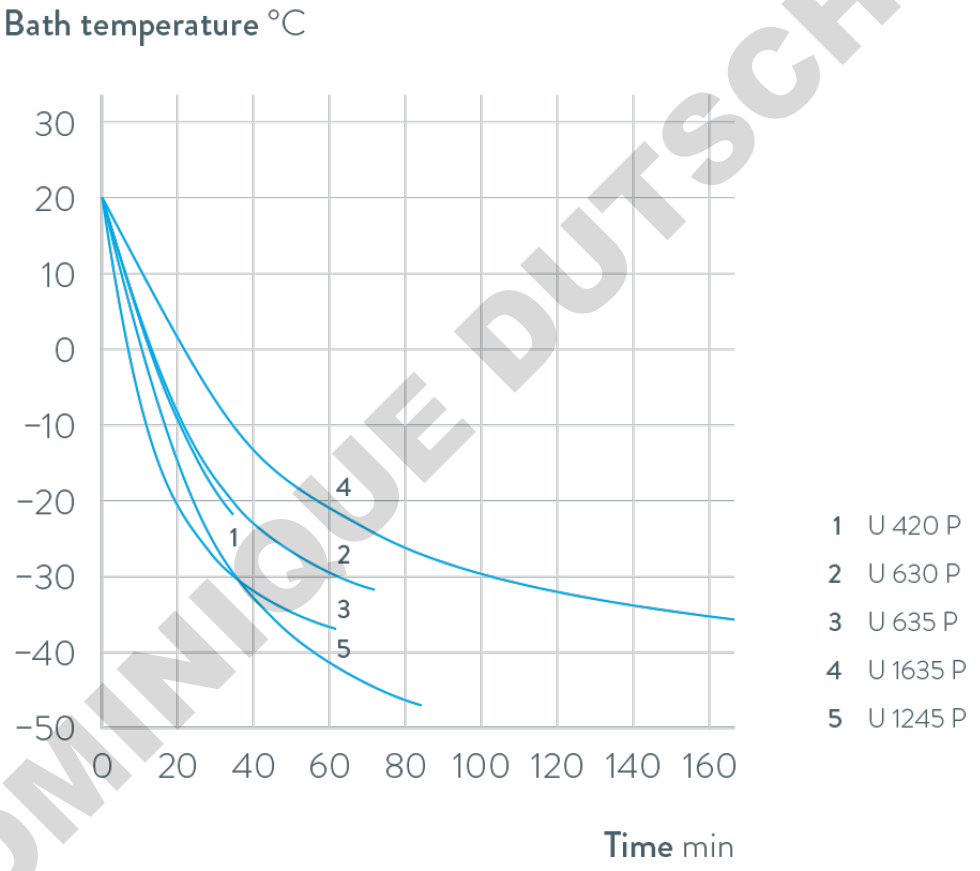
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## COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed




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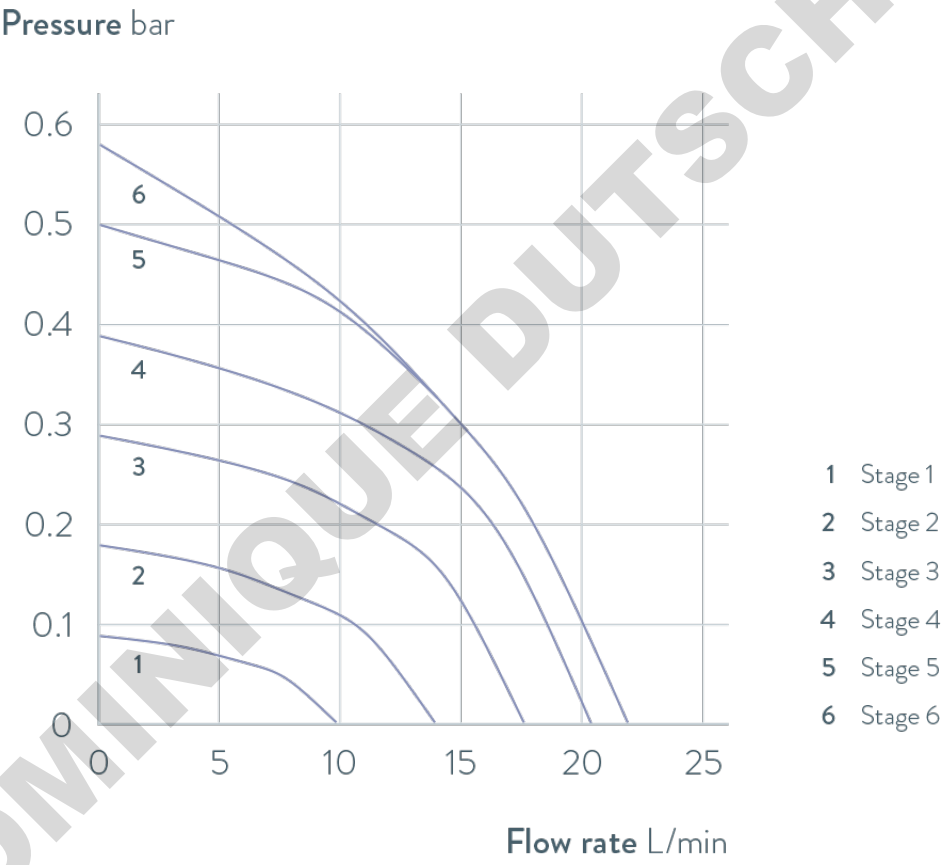
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**PUMP CHARACTERISTIC** Heat transfer liquid: Water




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