

## PRODUCT DATA SHEET

Standing: 2025-06-03

LAUDA Universa U 12 M

Heating thermostat, 200-240 V; 50/60 Hz

Part Number: L004139

### 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 5-inch colour TFT display simultaneously shows temperature values with a progression graph, offers clear menu navigation in six languages and clear 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.
- Versatile pressure-suction pump: The LAUDA Varioflex pump, a powerful pressure-suction pump, offers eight selectable performance levels, adjustable flow rate distribution for internal/external circulation for optimal volume flow and pressure
- Easily accessible front switch on the control head allows the pump output to be adjusted during operation.
- 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.
- Extensive functionality with programmer, safe mode, calibration options, controller self-adaptation and weekly planner for precise and flexible 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.
- Maximum networking: Comprehensive connectivity for almost any application thanks to standard Ethernet, USB and interface for an external Pt100 as well as eleven optional interface modules.
- Comprehensive safety functions: - Effective over- and under-level protection - Adjustable overtemperature protection with acoustic alarm - Automatic system diagnostics at start-up with alarm and error message display - Smart temperature control media management with automatic limit value adjustment. For reliable operation and improved safety of your valuable samples.



Reserve technical changes



Working temperature min.  
70 °C



Working temperature max.  
300 °C

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Persönlich haftende Gesellschafterin:  
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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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### Technical Features

|                                                 |                                      |
|-------------------------------------------------|--------------------------------------|
| Working temperature range                       | 70 ... 300 °C                        |
| Working temperature range with external cooling | 20 ... 300 °C                        |
| Operating temperature range                     | -30 ... 300 °C                       |
| Ambient temperature range                       | 5 ... 40 °C                          |
| Temperature stability                           | 0.01 ± K                             |
| Heating capacity range                          | 2.8 ... 3.7 kW                       |
| Current max.                                    | 16 A                                 |
| Size of bath (W x D x H)                        | 200 x 200 x 200 mm                   |
| Bath opening (WxT)                              | 200 x 200 mm                         |
| Bath volume min. / max.                         | 8.5 / 13.0 L                         |
| Pump Pressure max.                              | 0,7 bar                              |
| Pump suction max.                               | 0,4 bar                              |
| Pump flow rate max. (pressure)                  | 25 L/min                             |
| Pump Flow rate max. (suction)                   | 23 L/min                             |
| In / Outlet connection thread (outside)         | M16 x 1                              |
| In / Outlet Ø olives                            | 13 mm                                |
| Overall dimensions (WxDxH)                      | 280 x 450 x 497 mm                   |
| Weight                                          | 19 kg                                |
| Power supply                                    | 200-240 V, 50/60 Hz                  |
| Power plug                                      | Power cord with angled plug (CEE7/7) |

Reserve technical changes

### Standard accessories

- 1 Bath cover
- Pump connection set with M16x1 stainless steel connections
- 2 screw caps, 2 closing plugs
- 2 nipples 13 mm for pump connectors
- Cooling coil with M16x1 stainless steel connections and plastic caps

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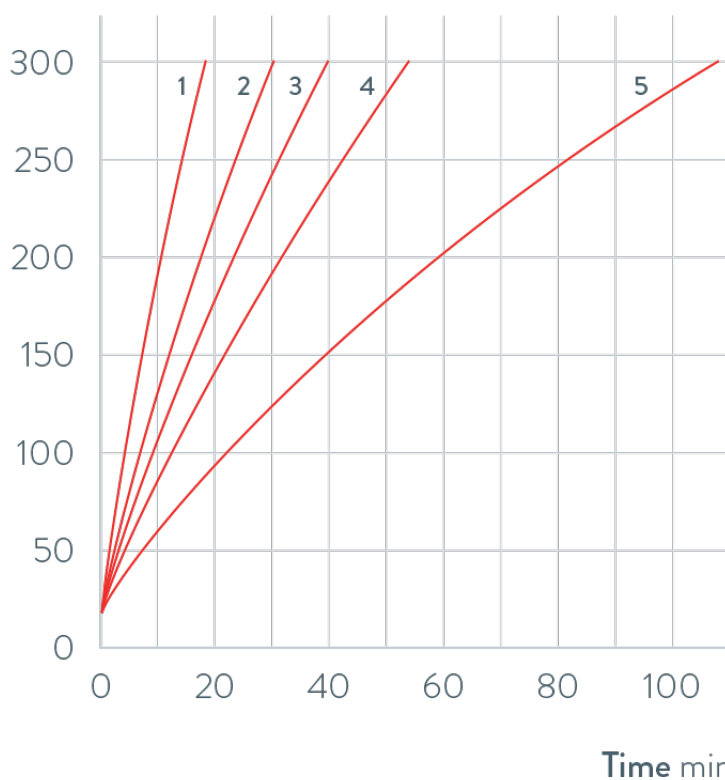
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### HEATING PERFORMANCE Heat transfer liquid: Water

Bath temperature °C



- 1 U 8 M
- 2 U 12 M
- 3 U 16 M
- 4 U 20 M
- 5 U 40 M

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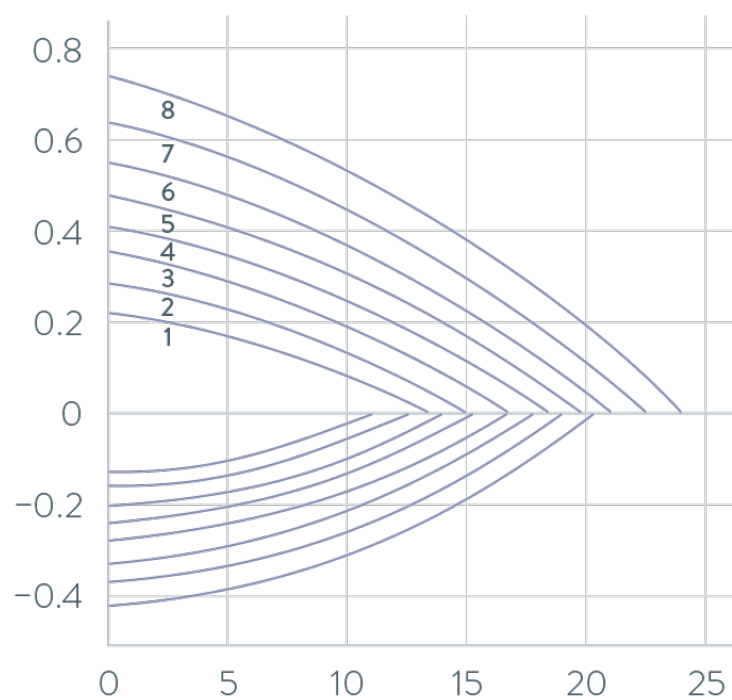
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



Suction

Flow rate L/min

- 1 Stage 1
- 2 Stage 2
- 3 Stage 3
- 4 Stage 4
- 5 Stage 5
- 6 Stage 6
- 7 Stage 7
- 8 Stage 8

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