

## PRODUCT DATA SHEET

Published: 2026-05-05

LAUDA Universa U 855 M

Cooling thermostat 100-125 V; 50/60 Hz

Part Number: L004206

### 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.
- 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.
- 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.



Reserve technical changes

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Registergericht Mannheim • HRB 560226

Geschäftsführer:  
Dr. Gunther Wobsey (Vors.), Dr. Mario Englert,  
Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobsey

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- 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.



Working temperature min.  
-55 °C



Working temperature max.  
200 °C

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## Technical Features

|   |  |
|---|--|
| Working temperature range               | -55 ... 200 °C                         |
| Operating temperature range             | -55 ... 200 °C                         |
| Ambient temperature range               | 5 ... 40 °C                            |
| Temperature stability                   | 0.01 ± K                               |
| Heating capacity range                  | 1.4 ... 2.0 kW                         |
| Power consumption max.                  | 2 kW                                   |
| Current max.                            | 16 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.                      | 0,7 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)              | 310 x 490 x 757 mm                     |
| Weight                                  | 45 kg                                  |
| Refrigerant stage 1                     | R-1270 (GWP 2); 0.075 kg; 0.0 t CO2-eq |
| Power supply                            | 100-125 V; 50/60 Hz                    |
| Power plug                              | Power cord with plug (NEMA 5-20P)      |

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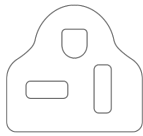
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Power cord with plug (NEMA 5-20P)

| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|------------------------|
| 200 °C      | 8          | Thermal oil          | 1.6 kW                 | 1.6 kW                 |
| 100 °C      | 8          | Thermal oil          | 1.6 kW                 | 1.6 kW                 |
| 20 °C       | 8          | Ethanol              | 1.6 kW                 | 1.6 kW                 |
| 10 °C       | 8          | Ethanol              | 1.45 kW                | 1.45 kW                |
| 0 °C        | 8          | Ethanol              | 1.25 kW                | 1.25 kW                |
| -10 °C      | 8          | Ethanol              | 0.88 kW                | 0.88 kW                |
| -20 °C      | 4          | Ethanol              | 0.62 kW                | 0.62 kW                |
| -30 °C      | 4          | Ethanol              | 0.38 kW                | 0.38 kW                |
| -40 °C      | 4          | Ethanol              | 0.18 kW                | 0.18 kW                |
| -50 °C      | 4          | Ethanol              | 0.05 kW                | 0.05 kW                |
| -55 °C      | 4          | Ethanol              | 0.02 kW                | 0.02 kW                |

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### 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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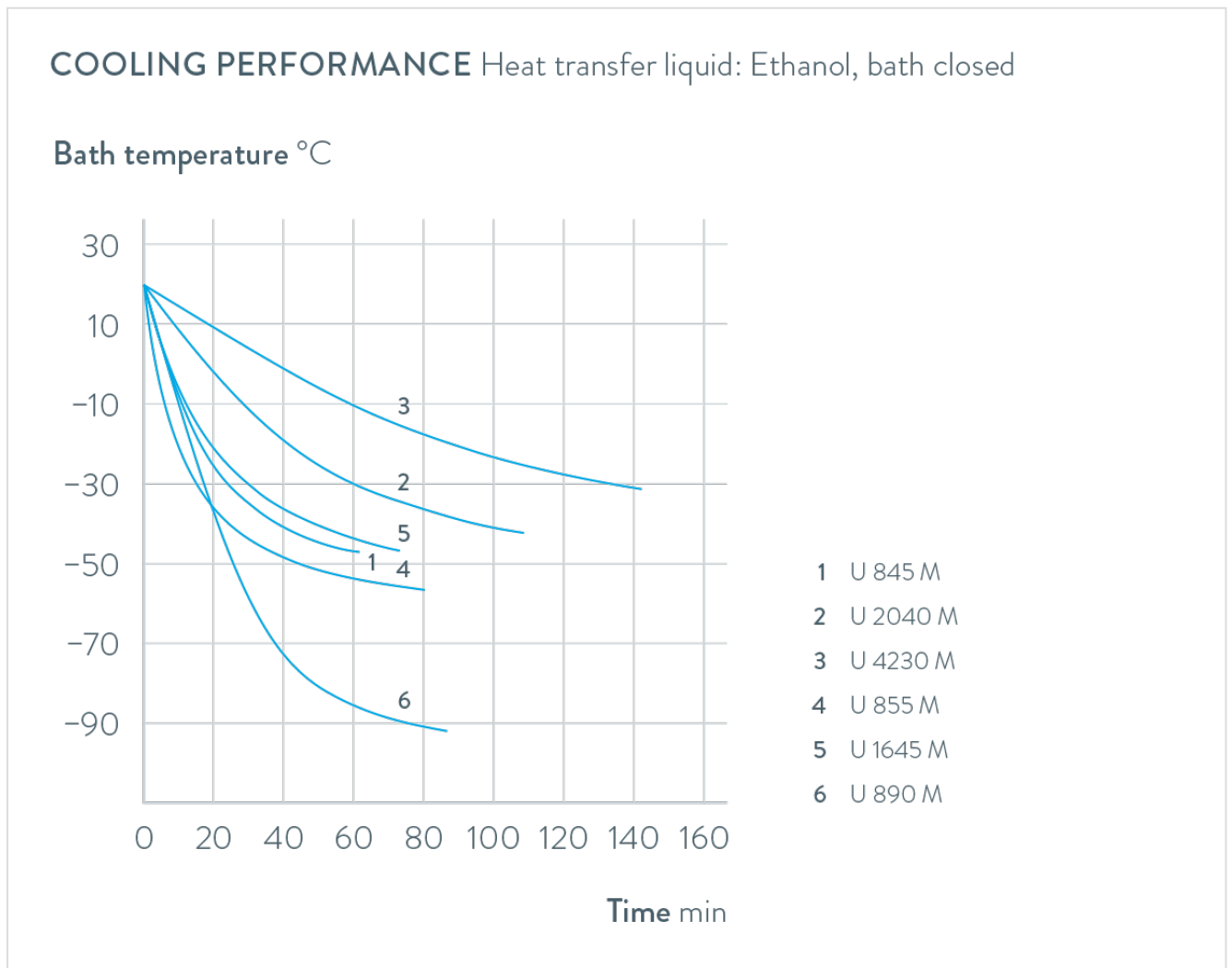
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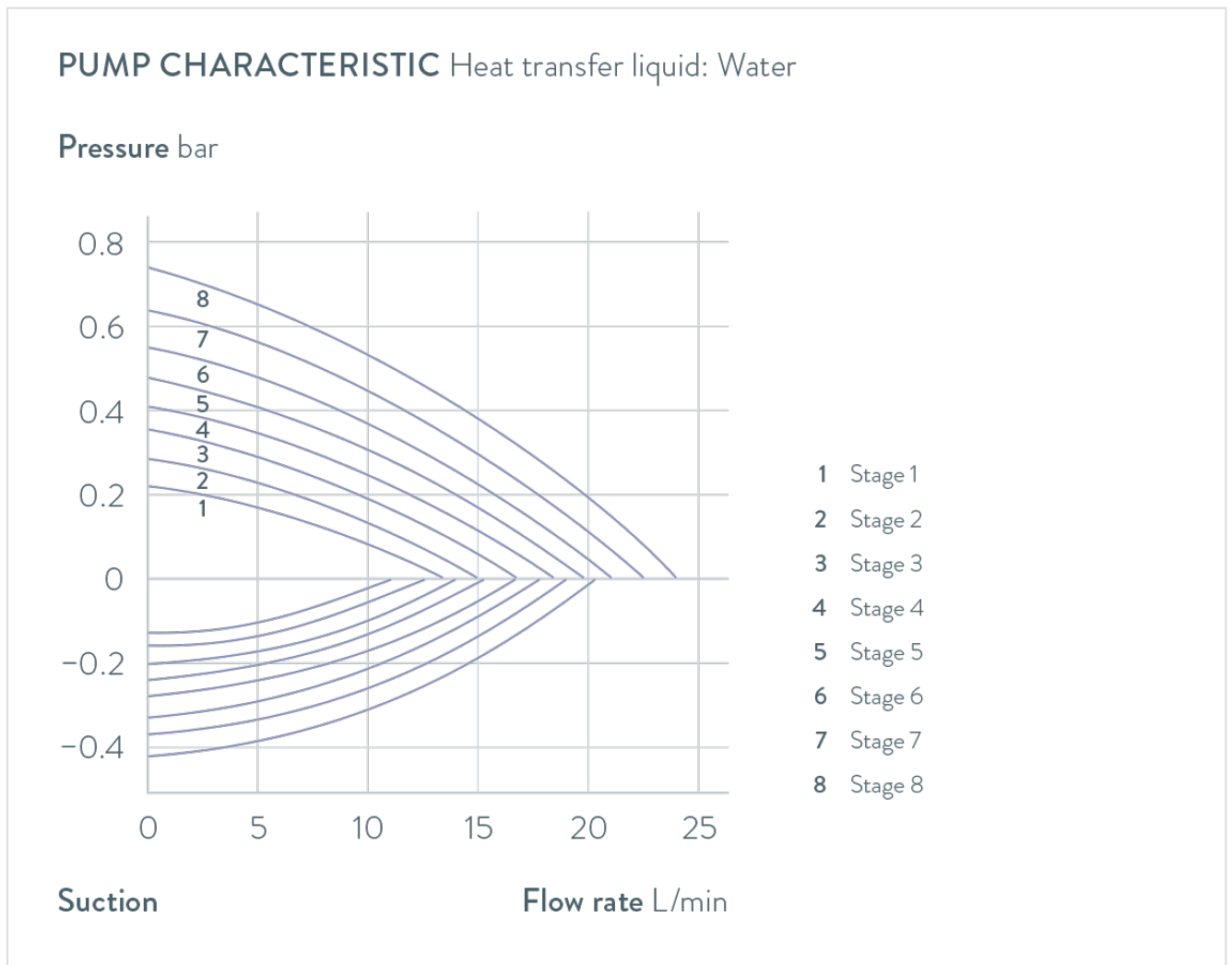
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