

## PRODUCT DATA SHEET

Published: 2026-06-22

LAUDA Ultratemp UT 2505 W Process thermostat  
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
Part Number: L004023

### Features

- Process thermostat with integrated heater
- Graphic LCD with clear text menu navigation
- Operation possible via web server
- Integrated Ethernet interface
- Connection external Pt100 temperature sensor
- Fully electronic continuous controller with PID action
- Protection level IP 54 (for outdoor installation)
- Stainless steel housing
- Industrial block pump with high pressure and high flow rate
- Additional pump for internal circulation
- Digital display of pump pressure
- Operates with non flammable liquids (water, water/glycol)
- Integrated water filter
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024
- Condenser cooling Water
- Certification according to UL 60335:2023, CSA 22.2 No. 60335 Ed. 2nd



Reserve technical changes



Working temperature min.  
-5 °C



Working temperature max.  
60 °C

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

Kommanditgesellschaft: Sitz Lauda-Königshofen  
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:  
LAUDA DR. R. WOBSEY Verwaltungs-GmbH  
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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                | -5 ... 60 °C                                           |
| Ambient temperature range                | -15 ... 50 °C                                          |
| Temperature stability                    | 0.5 ± K                                                |
| Heater power max.                        | 35 kW                                                  |
| Pump Pressure max. 50 Hz                 | 3.2 bar                                                |
| Pump pressure nominal 50 Hz              | 3 bar                                                  |
| Flow rate max. (pressure) 50 Hz          | 250 L/min                                              |
| Pump pressure max. 60 Hz                 | 4.6 bar                                                |
| Flow rate max. (pressure) 60 Hz          | 300 L/min                                              |
| Pump pressure nominal 60 Hz              | 4.4 bar                                                |
| Pump flow rate nominal                   | 90 L/min                                               |
| In / Outlet connection thread (inside)   | Rp 1 1/2                                               |
| Water cooling connection thread (inside) | Rp 1 1/2                                               |
| Filling volume max.                      | 100 L                                                  |
| Cooling water temperature min.           | 0 °C                                                   |
| Cooling water temperature max.           | 45 °C                                                  |
| Pressure difference cooling water min.   | 2 bar                                                  |
| Maximum pressure cooling water           | 6 bar                                                  |
| Cooling water consumption                | 60.6 L/min                                             |
| Refrigerant stage 1                      | R-407C (GWP 1770); 2.500 kg; 4.4 t CO <sub>2</sub> -eq |
| Protection rating                        | IP 54                                                  |
| Overall dimensions (WxDxH)               | 1138 x 1486 x 1792 mm                                  |
| Weight                                   | 565 kg                                                 |
| Power plug                               | ---                                                    |
| Power supply                             | 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz                |
| Current max.                             | 80 A                                                   |

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| Temperature | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------------------|------------------------|
| 60 °C       | 29.8 kW                | 35.1 kW                |
| 30 °C       | 29.8 kW                | 35.1 kW                |
| 20 °C       | 25.8 kW                | 30.3 kW                |
| 15 °C       | 22.2 kW                | 26.1 kW                |
| 10 °C       | 19.1 kW                | 22.4 kW                |
| 5 °C        | 15.9 kW                | 18.7 kW                |
| 0 °C        | 13.8 kW                | 16.2 kW                |
| -5 °C       | 11 kW                  | 12.9 kW                |

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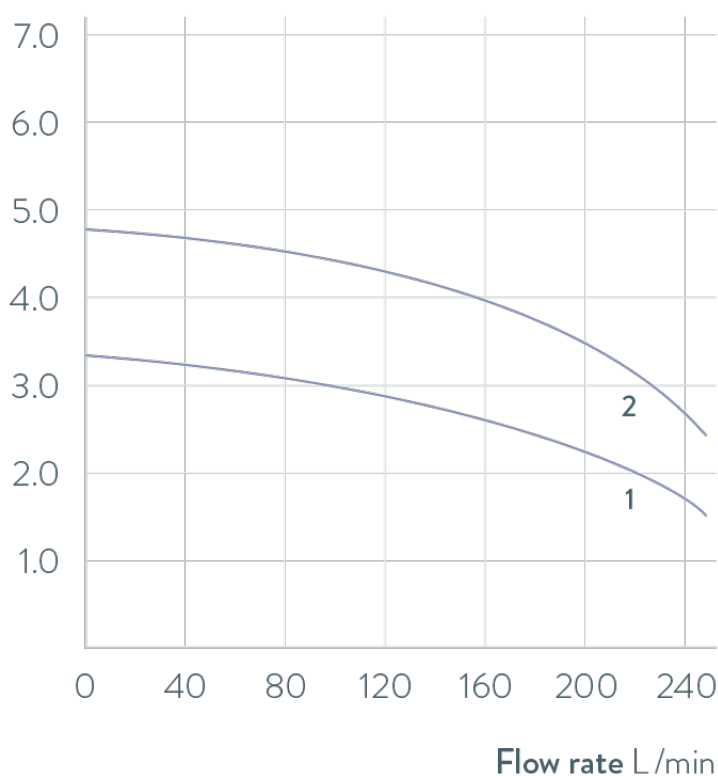
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### PUMP CHARACTERISTICS 50 Hz Heat transfer liquid: Water

Pressure bar



2 UT 5005 W

1 UT 2505 W, UT 3505 W

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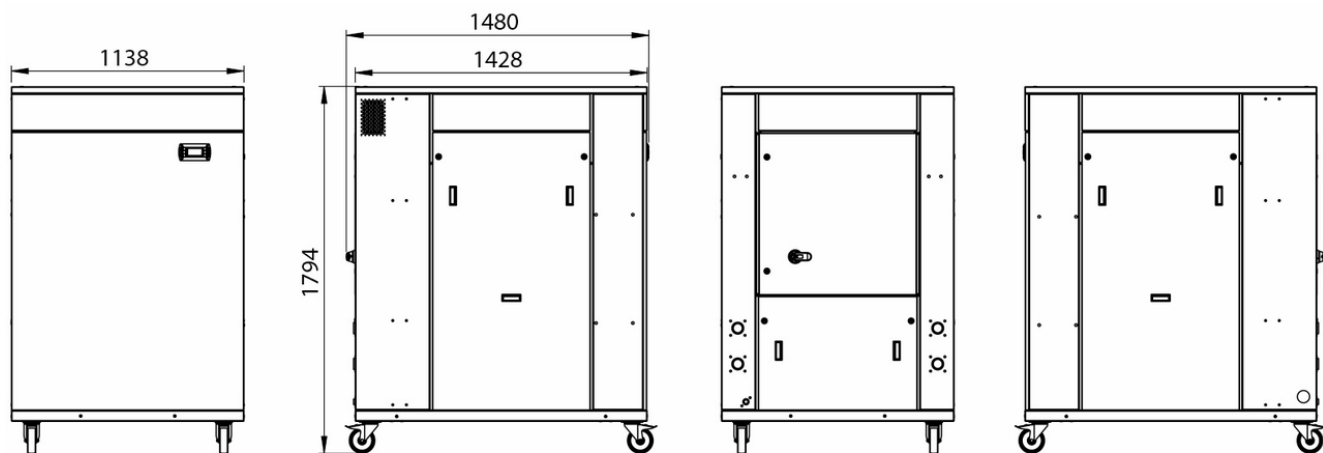
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