

## PRODUCT DATA SHEET

Published: 2026-05-07

LAUDA Proline Kryomat RP 4090 CW  
Cooling thermostat 200 V; 3/PE; 50/60 Hz  
Part Number: L001707

### Features

- Thermostatic bath/circulator with latest microprocessor technology and integrated cooling system
- Back-lit graphic LCD display with high resolution and different display modes
- Additional green LED display for temperature
- Input either via cursor keys, numeric soft keys or both. Additional Tmax key for overtemperature
- Command console can be detached and used as remote control
- EasyUse system for simple operation of the whole unit
- SelfCheck Assistant for system diagnosis
- Fully electronic continuous controller with PID action for internal & external control
- PowerAdapt system for the use of the maximum possible amount of heat permitted by the power supply system
- Low level and overtemperature protection for use with non-flammable liquids
- Optically decoupled RS 232/485 interface integrated as a standard
- Option for upgrading with up to 2 interfaces (RS 232/485, Profibus, analogue or contact modules, Ethernet-USB module)
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Timer function for switching on the thermostat, entering the standby mode or running of programs
- LAUDA Vario pump with 4 selectable output steps
- Adjustment of bath circulation according to application
- Pump connectors on the side and in the back, installed bypass
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Electronically-controlled heating of bath edge and bath bridge prevents moisture in the atmosphere from condensing and freezing at low temperatures
- Condenser cooling Water
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024



Reserve technical changes



Working temperature min.  
-90 °C



Working temperature max.  
200 °C

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

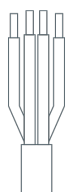
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### Technical Features (according to DIN 12876)

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Working temperature range               | -90 ... 200 °C                                          |
| Ambient temperature range               | 5 ... 40 °C                                             |
| Temperature stability                   | 0.05 ± K                                                |
| Heater power max.                       | 2.8 kW                                                  |
| Power consumption max.                  | 7 kW                                                    |
| Current max.                            | 25 A                                                    |
| Pump Pressure max.                      | 0,5 bar                                                 |
| Pump flow rate max. (pressure)          | 19 L/min                                                |
| In / Outlet connection thread (outside) | M16 x 1                                                 |
| Bath volume min. / max.                 | 32.0 / 44.0 L                                           |
| Size of bath (W x D x H)                | 350 x 350 x 250 mm                                      |
| Recommended cooling water temperature   | 15 °C                                                   |
| Cooling water consumption               | 11.7 L/min                                              |
| Maximum pressure cooling water          | 10 bar                                                  |
| Overall dimensions (WxDxH)              | 600 x 700 x 1216 mm                                     |
| Refrigerant stage 1                     | R-452A (GWP 2140); 1.600 kg; 3.4 t CO <sub>2</sub> -eq  |
| Refrigerant stage 2                     | R-508B (GWP 13400); 0.730 kg; 9.8 t CO <sub>2</sub> -eq |
| Power supply                            | 200 V; 3/PE; 50/60 Hz                                   |
| Power plug                              | Power cord without plug (HAR)                           |



Power cord without plug (HAR)

Reserve technical changes

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| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|------------------------|
| 200 °C      | 2          | Thermal oil          | 4 kW                   | 4 kW                   |
| 20 °C       | 2          | Ethanol              | 4 kW                   | 4 kW                   |
| 0 °C        | 2          | Ethanol              | 3.7 kW                 | 3.7 kW                 |
| -20 °C      | 2          | Ethanol              | 3.1 kW                 | 3.1 kW                 |
| -30 °C      | 2          | Ethanol              | 2.7 kW                 | 2.7 kW                 |
| -40 °C      | 2          | Ethanol              | 2 kW                   | 2 kW                   |
| -50 °C      | 2          | Ethanol              | 1.6 kW                 | 1.6 kW                 |
| -60 °C      | 2          | Ethanol              | 1.3 kW                 | 1.3 kW                 |
| -70 °C      | 2          | Ethanol              | 0.8 kW                 | 0.8 kW                 |
| -80 °C      | 2          | Ethanol              | 0.5 kW                 | 0.5 kW                 |
| -90 °C      | 2          | Ethanol              | 0.15 kW                | 0.15 kW                |

Reserve technical changes

### Standard accessories

- 1 Bath cover
- 4 screw caps, 4 closing plugs
- 2 nipples 13 mm for pump connectors

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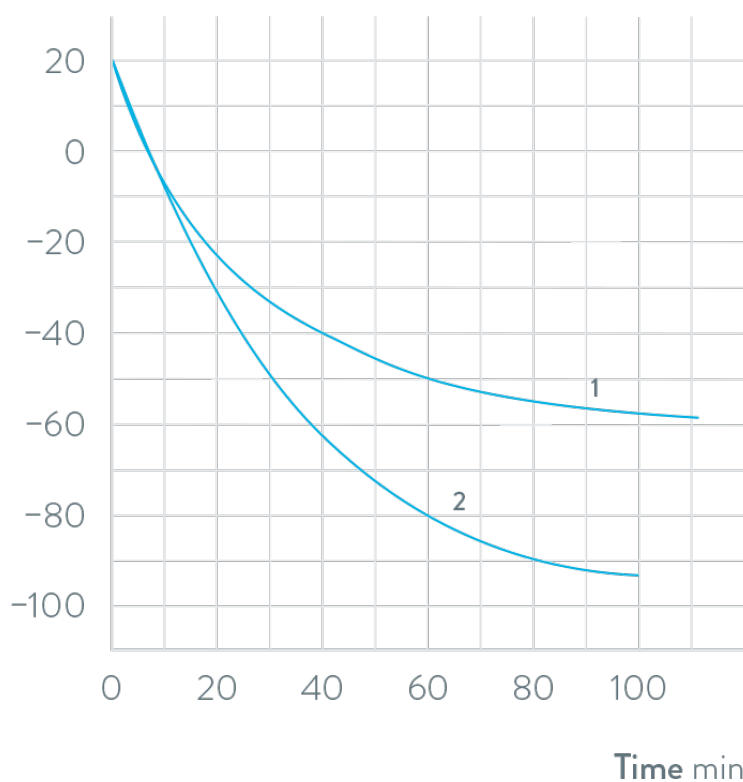
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### COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



- 1 RP 4050 C
- 2 RP 4090 C

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