

## PRODUCT DATA SHEET

Published: 2026-05-07

LAUDA Proline Kryomat RP 4090 C

Cooling thermostat 400 V; 3/N/PE; 50 Hz

Part Number: L001663

### 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
- With additional pump for external application (Thread M 30 x 1.5 O)
- 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 Air
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024



Reserve technical changes

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Registergericht Mannheim • HRB 560226

Geschäftsführer:  
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Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

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Working temperature min.  
-90 °C



Working temperature max.  
120 °C

## Technical Features (according to DIN 12876)

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Working temperature range      | -90 ... 120 °C                                          |
| Ambient temperature range      | 5 ... 40 °C                                             |
| Temperature stability          | 0.05 ± K                                                |
| Heater power max.              | 3.5 kW                                                  |
| Power consumption max.         | 7 kW                                                    |
| Current max.                   | 16 A                                                    |
| Pump Pressure max.             | 0,9 bar                                                 |
| Pump flow rate max. (pressure) | 90 L/min                                                |
| Bath volume min. / max.        | 32.0 / 44.0 L                                           |
| Size of bath (W x D x H)       | 350 x 350 x 250 mm                                      |
| Overall dimensions (WxDxH)     | 600 x 700 x 1216 mm                                     |
| Weight                         | 161 kg                                                  |
| Refrigerant stage 1            | R-452A (GWP 2140); 1.600 kg; 3.4 t CO2-eq               |
| Refrigerant stage 2            | R-508B (GWP 13400); 0.730 kg; 9.8 t CO2-eq              |
| Power supply                   | 400 V; 3/N/PE; 50 Hz                                    |
| Power plug                     | Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A) |



Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

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| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|------------|----------------------|------------------------|
| 200 °C      | 2          | Thermal oil          | 3 kW                   |
| 20 °C       | 2          | Ethanol              | 2.9 kW                 |
| 0 °C        | 2          | Ethanol              | 2.8 kW                 |
| -20 °C      | 2          | Ethanol              | 2.4 kW                 |
| -30 °C      | 2          | Ethanol              | 2.2 kW                 |
| -40 °C      | 2          | Ethanol              | 1.9 kW                 |
| -50 °C      | 2          | Ethanol              | 1.5 kW                 |
| -60 °C      | 2          | Ethanol              | 1.2 kW                 |
| -70 °C      | 2          | Ethanol              | 0.7 kW                 |
| -80 °C      | 2          | Ethanol              | 0.4 kW                 |
| -90 °C      | 2          | Ethanol              | 0.05 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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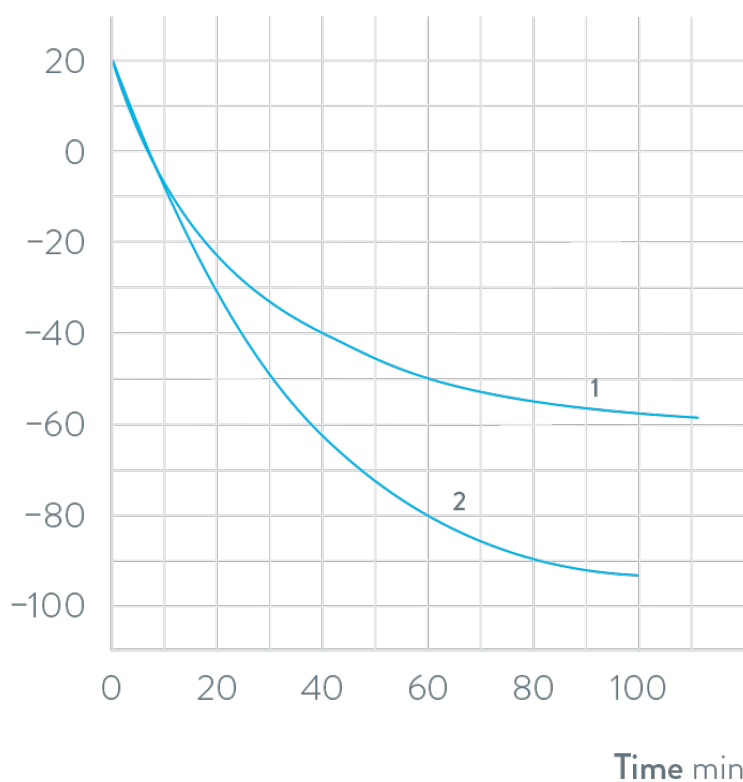
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### COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



1 RP 4050 C

2 RP 4090 C

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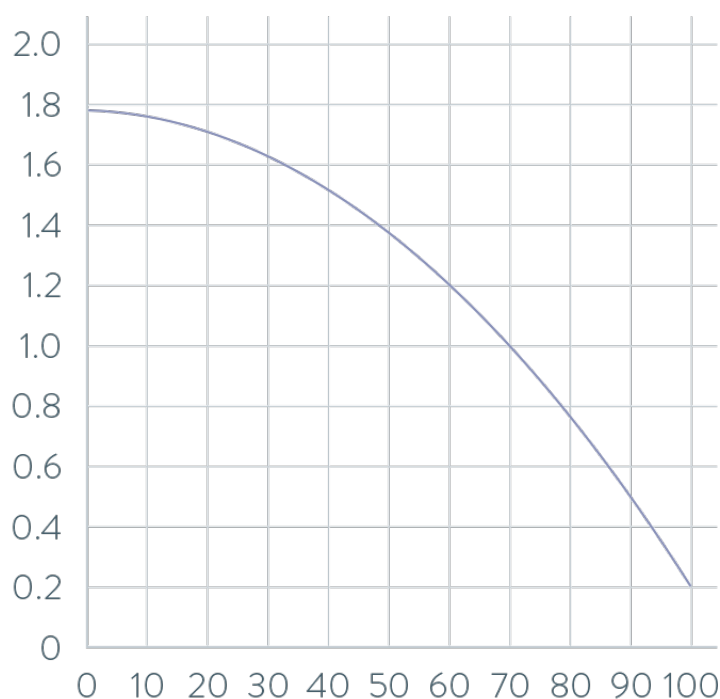
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



Proline Kryomats

Flow rate L/min

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