

PRODUCT DATA SHEET

Standing: 2024-10-21

LAUDA Proline Kryomat RP 4090 C

Cooling thermostat 208 V; 3/PE; 60 Hz

Part Number: L001687

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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Geschäftsführer:
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Dr. Marc Stricker
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Working temperature min.
 -90 °C



Working temperature max.
 150 °C

Technical Features (according to DIN 12876)

| | |
|--------------------------------|---|
| Working temperature range | -90 ... 150 °C |
| Ambient temperature range | 5 ... 40 °C |
| Temperature stability | 0.05 ± K |
| Heater power max. | 3 kW |
| Power consumption max. | 7 kW |
| Current max. | 25 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 | 165 kg |
| Refrigerant stage 1 | R-452A (GWP 2140); 1.600 kg; 3.4 t CO ₂ -eq |
| Refrigerant stage 2 | R-508B (GWP 13400); 0.730 kg; 9.8 t CO ₂ -eq |
| Power supply | 208 V; 3/PE; 60 Hz |
| Power plug | Power cord without plug (HAR) |

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| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 60 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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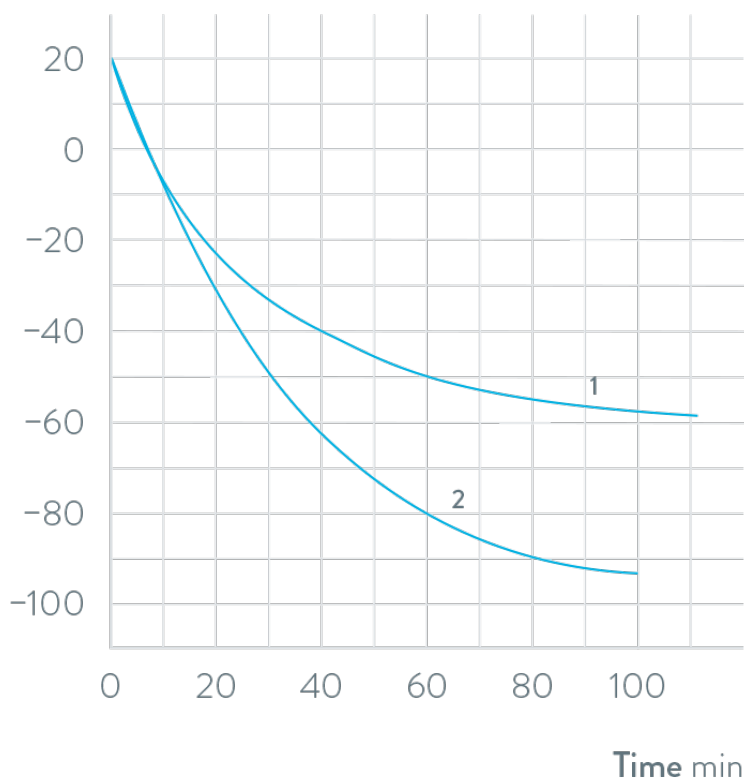
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COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



1 RP 4050 C

2 RP 4090 C

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