

PRODUCT DATA SHEET

Standing: 2024-10-21

LAUDA Proline Kryomat RP 4090 CW
Cooling thermostat 400 V; 3/N/PE; 50 Hz
Part Number: L001675

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 Water
- 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
Beirat: Dr. Gerhard Wobser

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Working temperature min.
-40 °C



Working temperature max.
150 °C

Technical Features (according to DIN 12876)

Working temperature range
Ambient temperature range
Temperature stability
Heater power max.
Power consumption max.
Current max.
Pump Pressure max.
Pump flow rate max. (pressure)
Bath volume min. / max.
Size of bath (W x D x H)
Recommended cooling water temperature
Cooling water flow rate
Maximal pressure cooling water
Overall dimensions (WxDxH)
Weight
Refrigerant stage 1
Refrigerant stage 2
Power supply
Power plug

-40 ... 150 °C
5 ... 40 °C
0.05 ± K
3.5 kW
7 kW
16 A
3,2 bar
40 L/min
32.0 / 44.0 L
350 x 350 x 250 mm
15 °C
11.7 L/min
10 bar
600 x 700 x 1216 mm
160 kg
R-452A (GWP 2140); 1.600 kg; 3.4 t CO2-eq
R-508B (GWP 13400); 0.730 kg; 9.8 t CO2-eq
400 V; 3/N/PE; 50 Hz
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	4 kW
20 °C	2	Ethanol	3.8 kW
0 °C	2	Ethanol	3.5 kW
-20 °C	2	Ethanol	2.9 kW
-30 °C	2	Ethanol	2.5 kW
-40 °C	2	Ethanol	1.8 kW

Standard accessories

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

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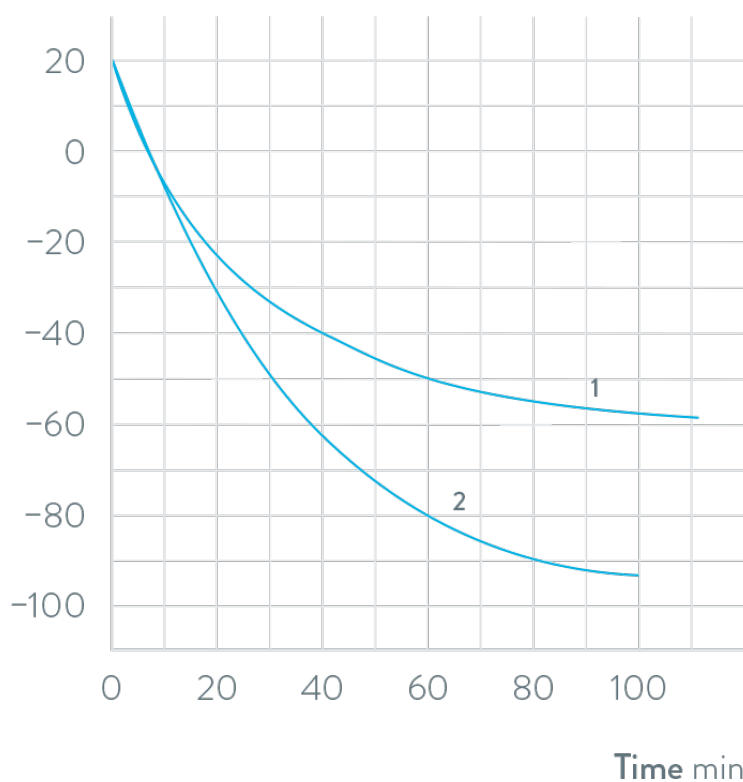
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COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



- 1 RP 4050 C
- 2 RP 4090 C

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