

PRODUCT DATA SHEET

Standing: 2024-03-20

LAUDA Proline Kryomat RP 4090 C

Cooling thermostat 200 V; 3/PE; 50/60 Hz

Part Number: L003524

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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Dr. Ralf Hermann, 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
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	200 V; 3/PE; 50/60 Hz
Power plug	Power cord without plug (HAR)

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

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Standard accessories

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

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