PRODUCT DATA SHEET

Standing: 2024-12-16

LAUDA Proline Kryomat RP 4050 C
Cooling thermostat 400 V; 3/N/PE; 50 Hz
Part Number: L001661

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 standyby 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 addional pump for external application (Thread M38x1.5 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

LAUDA DR. R. WOBSER GMBH & CO. KG
Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0
info@lauda.de • www.lauda.de
WEEE-Reg-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
LAUDA DR. R. WOBSER Verwaltungs-GmbH
Sitz Lauda-Königshofen
Registergericht Mannheim • HRB 560226

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

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Working temperature min.
-50 °C

Working temperature max.
120 °C

Technical Features (according to DIN 12876)	
Working temperature range	-50 ... 120 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Heater power max.	3.5 kW
Power consumption max.	5 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	129 kg
Refrigerant stage 1	R-449A (GWP 1397); 1.600 kg; 2.2 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)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz
200 °C	2	Thermal oil	5 kW
20 °C	2	Ethanol	4.9 kW
0 °C	2	Ethanol	2.9 kW
-20 °C	2	Ethanol	1.5 kW
-30 °C	2	Ethanol	0.9 kW
-40 °C	2	Ethanol	0.4 kW
-50 °C	2	Ethanol	0.15 kW

Standard accessories

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

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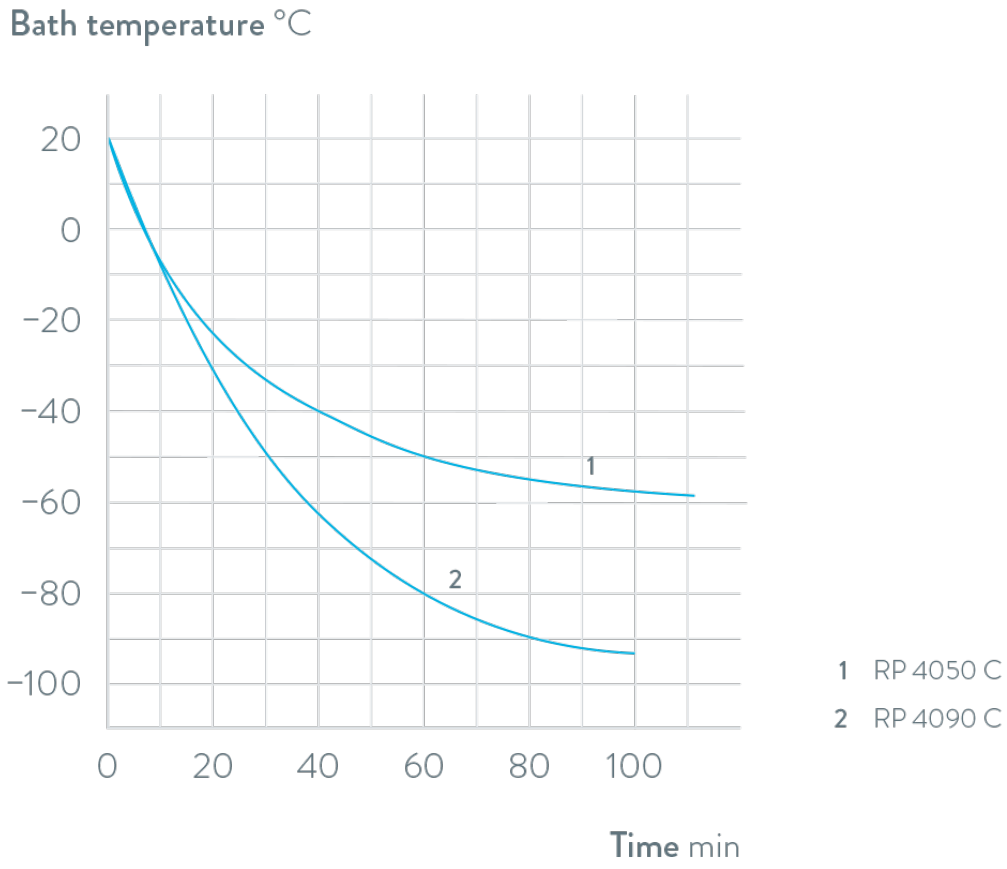
COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed



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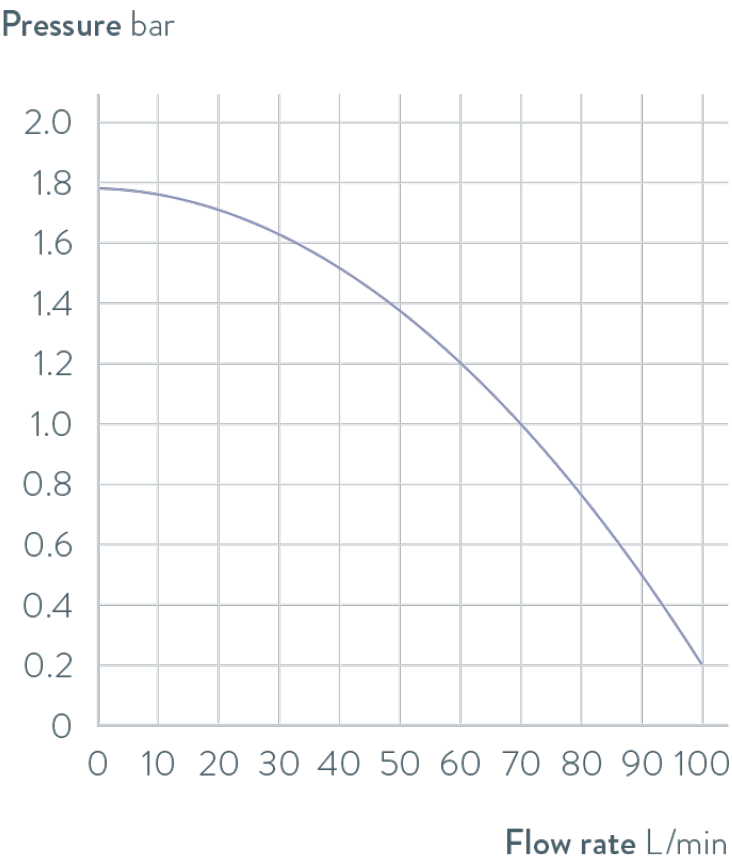
PUMP CHARACTERISTIC Heat transfer liquid: Water



Proline Kryomats

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