

PRODUCT DATA SHEET

Standing: 2024-11-11

LAUDA PRO RP 1090

Cooling heating bath thermostat 230 V; 50 Hz

Part Number: L000176

Features

- Thermostatic bath with latest microprocessor technology. Integrated cooling system
- Bright and high-contrast graphic OLED display
- Operation with Cursor- and Softkeys
- 360° turnable and detachable control panel for remote control
- EasyUse system for simple operation of the whole unit
- Low-level and adjustable over-temperature protection with acoustic alarm for use with flammable and non-flammable liquids
- SelfCheck Assistant for system diagnosis
- USB and Ethernet interface equipped as standard
- Retrofittable for upgrading with interface (RS 232/485, Profibus; EtherCAT; analogue or contact modules)
- 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
- Integrated programmer, 1 programme with max. 20 segments
- Low height of appliance when control panel removed
- Significantly enlarged accessible volume
- Bath vessel made of stainless steel (insulated, with handles and drain tap)
- Internal LAUDA Varioflex pump with 8 selectable levels
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Hybrid cooling system: (heat removal complementary with cooling water)
- Utilizes natural refrigerants



Reserve technical changes



Working temperature min.
-90 °C



Working temperature max.
200 °C

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

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Technical Features (according to DIN 12876)

Working temperature range	-90 ... 200 °C
Operating temperature range	-90 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.01 ± K
Heater power max.	3.6 kW
Power consumption max.	3.7 kW
Current max.	16 A
Size of bath (W x D x H)	240 x 150 x 200 mm
Bath volume min. / max.	6.5 / 10.5 L
Overall dimensions (WxDxH)	440 x 600 x 730 mm
Weight	85 kg
Refrigerant stage 1	R-290 (GWP 3); 0.110 kg; 0.0 t CO ₂ -eq
Refrigerant stage 2	R-170 (GWP 6); 0.075 kg; 0.0 t CO ₂ -eq
Power supply	230 V; 50 Hz
Power plug	Power cord with plug (SEV 1011, SEV 5934/2, T23)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz
20 °C	8	Ethanol	0.8 kW
10 °C	8	Ethanol	0.75 kW
0 °C	8	Ethanol	0.72 kW
-10 °C	8	Ethanol	0.69 kW
-20 °C	4	Ethanol	0.66 kW
-30 °C	4	Ethanol	0.63 kW
-40 °C	4	Ethanol	0.6 kW
-50 °C	4	Ethanol	0.54 kW
-60 °C	4	Ethanol	0.37 kW
-70 °C	4	Ethanol	0.24 kW
-80 °C	4	Ethanol	0.11 kW
-85 °C	4	Ethanol	0.05 kW
-90 °C	4	Ethanol	0.02 kW

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Standard accessories

- 1 Bath cover
- 2 nipples 10 mm with screw cap G3/8 for cooling water

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