

PRODUCT DATA SHEET

Standing: 2024-11-11

LAUDA PRO RP 2090 C

Cooling heating bath thermostat 230 V; 50 Hz

Part Number: L000198

Features

- Thermostatic bath with latest microprocessor technology. Integrated cooling system
- Large 5,7" Multi-Touch-Color display
- Operation with multi touch display
- 360° turnable and detachable control panel for remote control
- User administration for up to 20 user
- Data in- and export via USB
- Timer und count-down-function
- EasyUse system for simple operation of the whole unit
- 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
- Low-level and adjustable over-temperature protection with acoustic alarm for use with flammable and non-flammable liquids
- Programmer with up to 100 programs, up to 50 segments each
- 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



Working temperature min.
-90 °C



Working temperature max.
200 °C

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Persönlich haftende Gesellschafterin:
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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) | 300 x 290 x 200 mm |
| Bath volume min. / max. | 12.5 / 21.0 L |
| Overall dimensions (WxDxH) | 500 x 600 x 780 mm |
| Weight | 92 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) |

Reserve technical changes

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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 | 0.71 kW |
| 0 °C | 8 | Ethanol | 0.68 kW |
| -10 °C | 8 | Ethanol | 0.65 kW |
| -20 °C | 4 | Ethanol | 0.62 kW |
| -30 °C | 4 | Ethanol | 0.61 kW |
| -40 °C | 4 | Ethanol | 0.58 kW |
| -50 °C | 4 | Ethanol | 0.52 kW |
| -60 °C | 4 | Ethanol | 0.34 kW |
| -70 °C | 4 | Ethanol | 0.18 kW |
| -80 °C | 4 | Ethanol | 0.07 kW |
| -85 °C | 4 | Ethanol | 0.03 kW |
| -90 °C | 4 | Ethanol | 0.01 kW |

Reserve technical changes

Standard accessories

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

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