

## PRODUCT DATA SHEET

Standing: 2024-11-11

### LAUDA PRO RP 2090

Cooling heating bath thermostat 230 V; 50 Hz

Part Number: L000178

#### 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



Working temperature min.  
-90 °C



Working temperature max.  
200 °C

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Persönlich haftende Gesellschafterin:  
LAUDA DR. R. WOBSEY Verwaltungs-GmbH  
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Registergericht Mannheim • HRB 560226

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 730 mm                                 |
| Weight                      | 90 kg  |
| Refrigerant stage 1         | R-290 (GWP 3); 0.110 kg; 0.0 t CO <sub>2</sub> -eq |
| Refrigerant stage 2         | R-170 (GWP 6); 0.075 kg; 0.0 t CO <sub>2</sub> -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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