

## PRODUCT DATA SHEET

Standing: 2024-11-11

### LAUDA PRO RP 240 EC

Cooling heating circulator 230 V; 50 Hz

Part Number: L000202

#### Features

- Thermostatic circulator with latest microprocessor technology. Integrated cooling system
- Large 5,7" Multi-Touch-Color display
- Operation with multi touch display
- EasyUse system for simple operation of the whole unit
- Command console can be detached and used as remote control
- User administration for up to 20 user
- Data in- and export via USB
- Timer und count-down-function
- 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
- Programmer with up to 100 programs, up to 50 segments each
- Tower design with small footprint
- LAUDA Varioflex pump (pressure/suction) with 8 selectable levels, connections rear
- Low filling volume enables rapid changes in temperature
- Bath vessel made of stainless steel (insulated, with overflow and drain tap)
- 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.  
-40 °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               | -40 ... 200 °C                                     |
| Operating temperature range             | -40 ... 200 °C                                     |
| Ambient temperature range               | 5 ... 40 °C  |
| Temperature stability                   | 0.05 ± K   |
| Heater power max.                       | 2.5 kW   |
| Power consumption max.                  | 3.7 kW   |
| Current max.                            | 16 A   |
| Pump Pressure max.                      | 0,7 bar  |
| Pump suction max.                       | 0,4 bar  |
| Pump flow rate max. (pressure)          | 22 L/min   |
| Pump Flow rate max. (suction)           | 20 L/min   |
| In / Outlet connection thread (outside) | M16 x 1  |
| In / Outlet Ø olives                    | 13 mm  |
| Filling volume min.                     | 2.4 L  |
| Filling volume max.                     | 4.4 L  |
| Overall dimensions (WxDxH)              | 300 x 430 x 675 mm                                 |
| Weight                                  | 42 kg  |
| Refrigerant stage 1                     | R-290 (GWP 3); 0.120 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)   |

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| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|------------|----------------------|------------------------|
| 20 °C       | 8          | Ethanol              | 0.6 kW                 |
| 10 °C       | 8          | Ethanol              | 0.6 kW                 |
| 0 °C        | 8          | Ethanol              | 0.6 kW                 |
| -10 °C      | 8          | Ethanol              | 0.41 kW                |
| -20 °C      | 4          | Ethanol              | 0.24 kW                |
| -30 °C      | 4          | Ethanol              | 0.12 kW                |
| -35 °C      | 4          | Ethanol              | 0.07 kW                |
| -40 °C      | 2          | Ethanol              | 0.02 kW                |

### Standard accessories

- 2 screw caps, 2 closing plugs
- 2 nipples 13 mm for pump connectors
- 2 nipples 10 mm with screw cap G3/8 for cooling water

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