

## PRODUCT DATA SHEET

Standing: 2024-01-19

### LAUDA PRO RP 245 EC

Cooling heating circulator 230 V; 50 Hz

Part Number: L000124

#### Features

- Thermostatic circulator with latest microprocessor technology. Integrated cooling system
- Large 5,7" Multi-Touch-Color display
- Operation with multi touch display
- 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
- 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
- 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.  
-45 °C



Working temperature max.  
200 °C

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### Technical Features (according to DIN 12876)

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| Working temperature range               | -45 ... 200 °C                        |
| Operating temperature range             | -45 ... 200 °C                        |
| Ambient temperature range               | 5 ... 40 °C                           |
| Temperature stability                   | 0.05 ± K                              |
| Heater power max.                       | 2.5 kW                                |
| Power consumption max.                  | 3 kW                                  |
| Current max.                            | 13 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                                  | 41 kg                                 |
| Refrigerant stage 1                     | R-290 (GWP 3); 0.120 kg; 0.0 t CO2-eq |
| Power supply                            | 230 V; 50 Hz                          |
| Power plug                              | Power cord with angled plug (BS1363)  |

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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              | 0.8 kW                 |
| 0 °C        | 8          | Ethanol              | 0.8 kW                 |
| -10 °C      | 8          | Ethanol              | 0.53 kW                |
| -20 °C      | 4          | Ethanol              | 0.34 kW                |
| -30 °C      | 4          | Ethanol              | 0.15 kW                |
| -35 °C      | 4          | Ethanol              | 0.09 kW                |
| -40 °C      | 4          | Ethanol              | 0.04 kW                |
| -45 °C      | 2          | Ethanol              | 0.01 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

Reserve technical changes

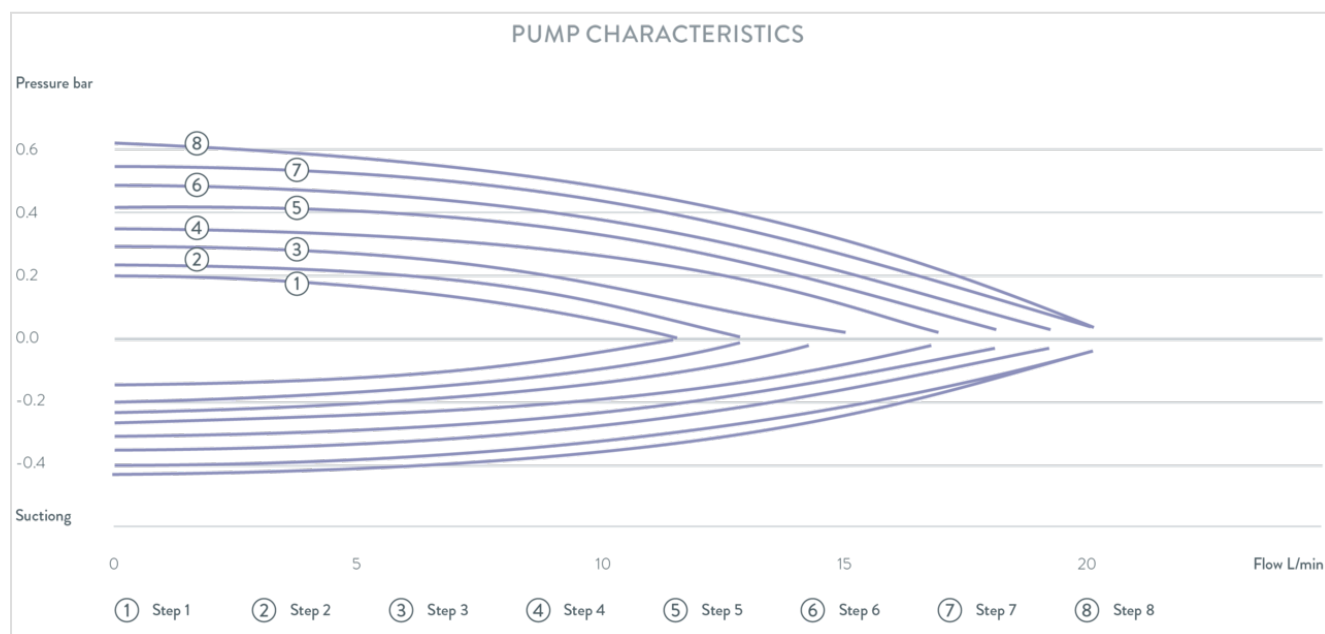
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Reserve technical changes



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.