

## PRODUCT DATA SHEET

Standing: 2024-03-19

### LAUDA PRO RP 290 EC

Cooling heating circulator 230 V; 50 Hz

Part Number: L002505

#### 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)
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024



Reserve technical changes



Working temperature min.

-90 °C



Working temperature max.

200 °C

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Dr. Gunter Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, 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	0.05 ± 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)	390 x 600 x 685 mm
Weight	80 kg
Refrigerant stage 1	R-452A (GWP 2140); 0.300 kg; 0.6 t CO <sub>2</sub> -eq
Refrigerant stage 2	R-170 (GWP 6); 0.070 kg; 0.0 t CO <sub>2</sub> -eq
Power supply	230 V; 50 Hz
Power plug	Power cord with angled plug (CEE7/7)

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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	0.77 kW
0 °C	8	Ethanol	0.74 kW
-10 °C	8	Ethanol	0.72 kW
-20 °C	4	Ethanol	0.7 kW
-30 °C	4	Ethanol	0.68 kW
-40 °C	4	Ethanol	0.64 kW
-50 °C	4	Ethanol	0.56 kW
-60 °C	4	Ethanol	0.39 kW
-70 °C	4	Ethanol	0.21 kW
-80 °C	4	Ethanol	0.09 kW
-90 °C	2	Ethanol	0.01 kW

Reserve technical changes

### 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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