

## PRODUCT DATA SHEET

Published: 2026-09-07

LAUDA Integral IN 250 XT

Process thermostat 208-220 V; 60 Hz

Part Number: L004748

### Features

- Process thermostat with integrated cooling system for dynamic temperature control within external circuits
- Coloured TFT display for simultaneous indication of actual & set values and graphic illustration of the temperature profile
- Clear text menu navigation, six selectable languages DE, EN, FR, ES, IT, RU
- Management of heat transfer liquids with stored properties
- Easy input via cursor and soft keys. Additional Tmax key for overtemperature protection
- SelfCheck Assistant for system diagnosis
- Fully electronic continuous controller with PID action for internal & external control
- Self adapt function for determination of control parameters
- 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
- USB and Ethernet interface equipped as standard
- Powerful LAUDA Variopump (pressure pump) with 8 selectable output levels or control of outflow pressure
- Port for external Pt100 integrated, second external Pt100 feasible via interface module
- Remote fault indication through floating contact
- Option for upgrading up to 2 additional interfaces (RS 232/485, Profibus, analogue, contact or EtherCAT module)
- Integrated and adjustable bypass
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- Integrated web server for browser based operation in local area networks via PC, tablet or smart phone, secure data transfer due to authentication procedure and encryption
- Digital display of pump pressure
- Highly efficient SmartCool system for energy-saving digital cooling control with speed-controlled compressor
- Condenser cooling Air
- Utilizes natural refrigerants



Reserve technical changes

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Persönlich haftende Gesellschafterin:  
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Registergericht Mannheim • HRB 560226

Geschäftsführer:  
Dr. Gunther Wobsey (Vors.), Dr. Mario Englert,  
Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobsey

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Working temperature min.  
-45 °C



Working temperature max.  
220 °C

## Technical Features (according to DIN 12876)

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Working temperature range               | -45 ... 220 °C                         |
| Ambient temperature range               | 5 ... 40 °C                            |
| Temperature stability                   | 0.05 ± K                               |
| Heater power max.                       | 3.4 kW                                 |
| Power consumption max.                  | 3.5 kW                                 |
| Current max.                            | 16 A                                   |
| Pump Pressure max.                      | 3,1 bar                                |
| Pump flow rate max. (pressure)          | 65 L/min                               |
| In / Outlet connection thread (outside) | M30 x 1,5                              |
| Inlet/outlet hose size                  | 3/4"                                   |
| Filling volume min.                     | 2.5 L                                  |
| Filling volume max.                     | 8.7 L                                  |
| Overall dimensions (WxDxH)              | 430 x 550 x 760 mm                     |
| Weight                                  | 99 kg                                  |
| Noise level                             | 58 dB(A)                               |
| Refrigerant stage 1                     | R-1270 (GWP 2); 0.099 kg; 0.0 t CO2-eq |
| Power supply                            | 208-220 V; 60 Hz                       |
| Power plug                              | Power cord with angled plug (CEE7/7)   |

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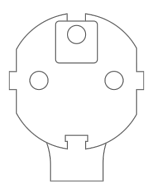
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Power cord with angled plug (CEE7/7)

| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|
| 200 °C      | 8          | Thermal oil          | 2 kW                   |
| 100 °C      | 8          | Thermal oil          | 2 kW                   |
| 20 °C       | 8          | Ethanol              | 1.85 kW                |
| 10 °C       | 8          | Ethanol              | 1.75 kW                |
| 0 °C        | 8          | Ethanol              | 1.45 kW                |
| -10 °C      | 8          | Ethanol              | 1 kW                   |
| -20 °C      | 4          | Ethanol              | 0.85 kW                |
| -30 °C      | 4          | Ethanol              | 0.45 kW                |
| -40 °C      | 4          | Ethanol              | 0.15 kW                |
| -45 °C      | 2          | Ethanol              | 0.1 kW                 |

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### Standard accessories

- 2 nipples 1/2" with screw cap G3/4 for cooling water

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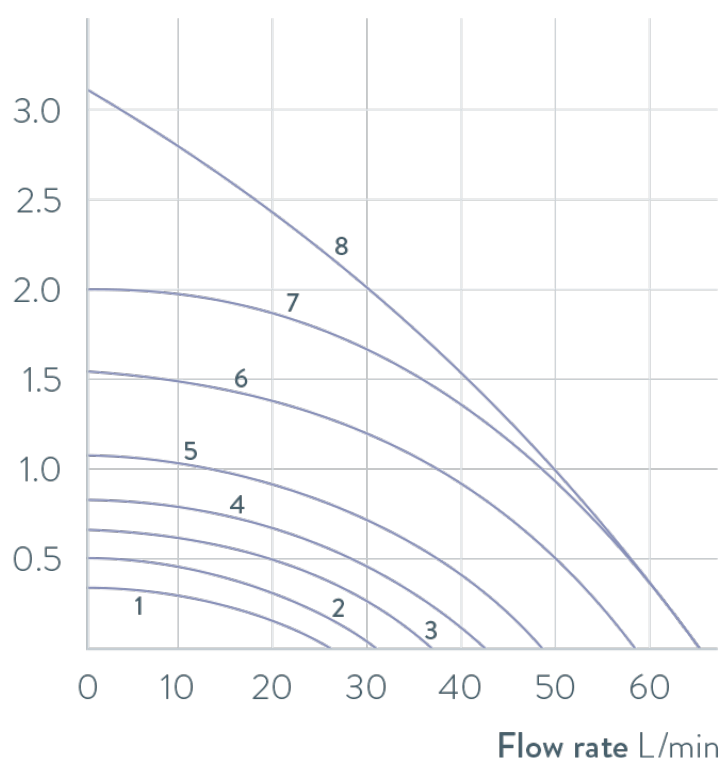
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### PUMP CHARACTERISTICS Heat transfer liquid: Water

Pressure bar



- 1 Stage 1
- 2 Stage 2
- 3 Stage 3
- 4 Stage 4
- 5 Stage 5
- 6 Stage 6
- 7 Stage 7
- 8 Stage 8

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