# PRODUCT DATA SHEET

Published: 2026-11-06

## LAUDA Integral IN 250 XTW
## Process thermostat 208-220 V; 60 Hz
## Part Number: L004691



**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 Water
- Utilizes natural refrigerants

Reserve technical changes

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WEEE-Reg-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
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Geschäftsführer:
Dr. Gunther Wobser (Vors.),
Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Working temperature min.
-50 °C

Working temperature max.
220 °C

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| Technical Features (according to DIN 12876) | |
|---|---|
| Working temperature range | -50 ... 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 |
| Water cooling connection thread (outside) | 3/4 ″ |
| Recommended cooling water temperature | 15 °C |
| Cooling water temperature max. | 30 °C |
| Cooling water consumption | 7 L/min |
| Recommended pressure difference cooling water | 3 bar |
| Pressure difference cooling water min. | 0.8 bar |
| Max. pressure difference cooling water | 5 bar |
| Maximum pressure cooling water | 10 bar |
| Overall dimensions (WxDxH) | 430 x 550 x 760 mm |
| Weight | 102 kg |
| Noise level | 55 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 plug (NEMA 6-20P) |

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Power cord with plug (NEMA 6-20P)

| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz |
|---|---|---|---|
| 200 °C | 8 | Thermal oil | 2.5 kW |
| 100 °C | 8 | Thermal oil | 2.5 kW |
| 20 °C | 8 | Ethanol | 2.5 kW |
| 10 °C | 8 | Ethanol | 2.2 kW |
| 0 °C | 8 | Ethanol | 1.7 kW |
| -10 °C | 8 | Ethanol | 1.25 kW |
| -20 °C | 4 | Ethanol | 1 kW |
| -30 °C | 4 | Ethanol | 0.55 kW |
| -40 °C | 4 | Ethanol | 0.24 kW |
| -45 °C | 2 | Ethanol | 0.12 kW |
| -50 °C | 2 | Ethanol | 0.05 kW |

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**Standard accessories**

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

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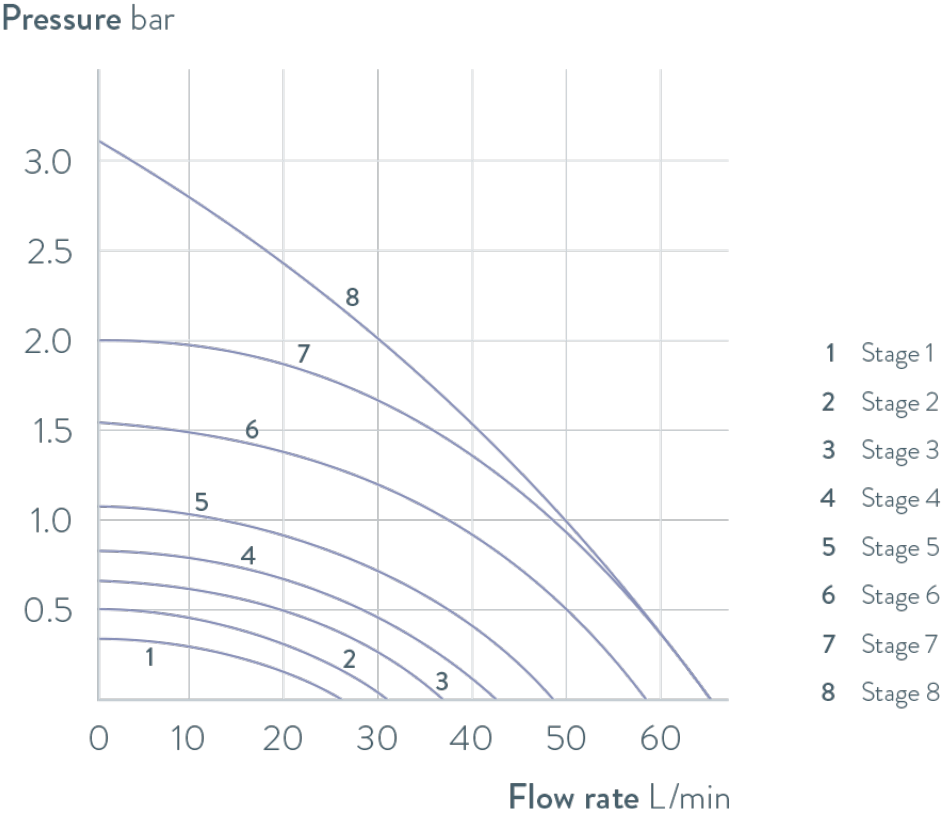
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## PUMP CHARACTERISTICS Heat transfer liquid: Water




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