PRODUCT DATA SHEET

Published: 2026-11-19

LAUDA Integral IN 1230 T Process thermostat
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004769



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
- Extremely powerful pressure pump
- Additional pump for internal circulation
- USB and Ethernet interface equipped as standard
- 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)
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Adjustable bypass for pressure limiting
- Digital display of pump pressure
- 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
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Condenser cooling Air
- Utilises a new type of non-flammable refrigerant (HFO), in compliance with the F-Gas Regulation (EU) No. 573/2024

Reserve technical changes

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Geschäftsführer:
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Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Working temperature min.
-32 °C

Working temperature max.
150 °C

Technical Features (according to DIN 12876)	
Working temperature range	-32 ... 150 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.1 ± K
Heater power max.	16 kW
Power consumption max.	18 kW
Current max.	25 A
Pump Pressure max.	5,5 bar (50 Hz), 7,0 bar (60 Hz)
Pump flow rate max. (pressure)	60 L/min (50 Hz); 70 L/min (60 Hz)
In / Outlet connection thread (outside)	M38 x 1,5
Inlet/outlet hose size	1″
Filling volume min.	9.7 L
Filling volume max.	25.5 L
Overall dimensions (WxDxH)	760 x 650 x 1605 mm
Refrigerant stage 1	R-513A (GWP 631); 2.000 kg; 1.3 t CO2-eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (NEMA L16-30P twist lock; 30 A)



Power cord with plug (NEMA L16-30P twist lock; 30 A)

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Temperature	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
100 °C	Thermal oil	12.5 kW	12.5 kW
20 °C	Ethanol	12.5 kW	12.5 kW
10 °C	Ethanol	9.7 kW	9.7 kW
0 °C	Ethanol	7.2 kW	7.2 kW
-10 °C	Ethanol	4.9 kW	4.9 kW
-20 °C	Ethanol	2.9 kW	2.9 kW
-30 °C	Ethanol	1.4 kW	1.4 kW

Standard accessories

- 2 nipples 1" with screw cap M38 x 1,5 for pump connectors

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