PRODUCT DATA SHEET

Published: 2026-11-20

LAUDA Integral IN 1330 TW Process thermostat
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004771



Reserve technical changes

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 Water
- Utilises a new type of non-flammable refrigerant (HFO), in compliance with the F-Gas Regulation (EU) No. 573/2024

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Beirat: Dr. Gerhard Wobser

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Working temperature min.
-32 °C

Working temperature max.
150 °C

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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
Water cooling connection thread (outside)	3/4 ″
Recommended cooling water temperature	15 °C
Cooling water temperature max.	30 °C
Cooling water consumption	26 L/min
Recommended pressure difference cooling water	3 bar
Pressure difference cooling water min.	0.8 bar
Max. pressure difference cooling water	10 bar
Maximum pressure cooling water	10 bar
Overall dimensions (WxDxH)	760 x 650 x 1605 mm
Weight	225 kg
Noise level	62 dB(A)
Refrigerant stage 1	R-513A (GWP 631); 2.200 kg; 1.4 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)

Reserve technical changes

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

Temperature	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
100 °C	Thermal oil	14 kW	14 kW
20 °C	Ethanol	14 kW	14 kW
10 °C	Ethanol	10.5 kW	10.5 kW
0 °C	Ethanol	7.7 kW	7.7 kW
-10 °C	Ethanol	5.2 kW	5.2 kW
-20 °C	Ethanol	3.3 kW	3.3 kW
-30 °C	Ethanol	1.6 kW	1.6 kW

Reserve technical changes

Standard accessories

- 2 nipples 1" with screw cap M38 x 1,5 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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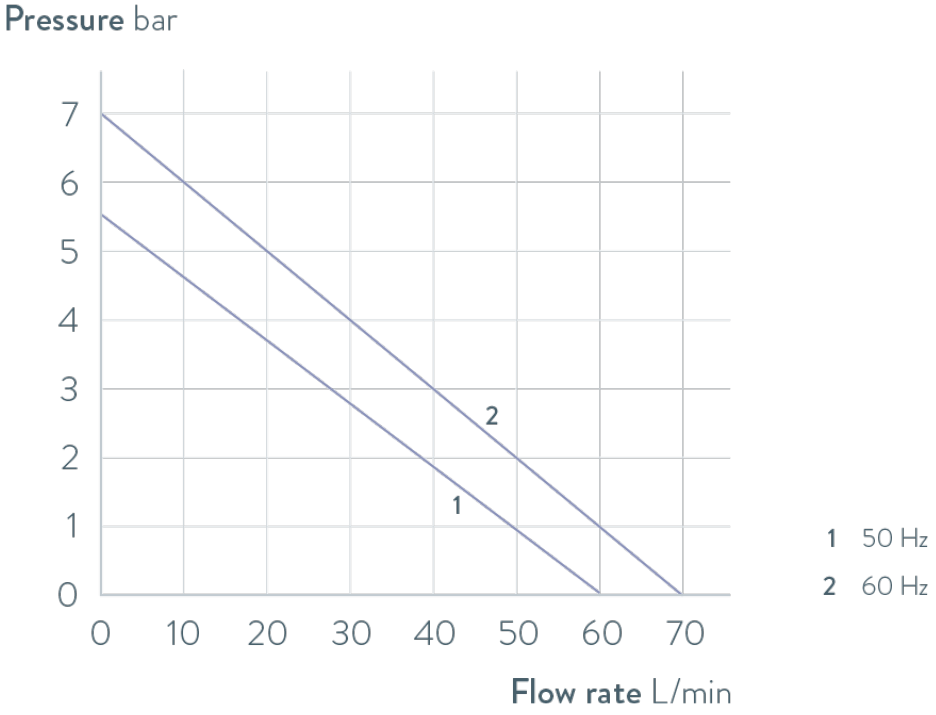
PUMP CHARACTERISTICS Heat transfer liquid: Water



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