PRODUCT DATA SHEET

Published: 2026-09-30

LAUDA Integral IN 230 TW
Process thermostat 230 V; 50 Hz
Part Number: L004475

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

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Working temperature min.
-32 °C

Working temperature max.
120 °C

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Technical Features (according to DIN 12876)	
Working temperature range	-32 ... 120 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Heater power max.	2.7 kW
Power consumption max.	3.7 kW
Current max.	16 A
Pump Pressure max.	3,5 bar
Pump flow rate max. (pressure)	40 L/min
In / Outlet connection thread (outside)	G 3/4"
Inlet/outlet hose size	3/4″
Filling volume min.	3.6 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	3 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
Noise level	58 dB(A)
Refrigerant stage 1	R-1270 (GWP 2); 0.099 kg; 0.0 t CO2-eq
Power supply	230 V; 50 Hz
Power plug	Power cord with angled plug (CEE7/7)

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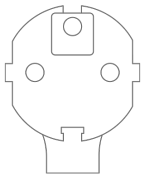

Power cord with angled plug (CEE7/7)

Temperature	Heat transfer liquid	Cooling Capacity 50 Hz
100 °C	Thermal oil	3 kW
20 °C	Ethanol	2.5 kW
10 °C	Ethanol	2.2 kW
0 °C	Ethanol	1.8 kW
-10 °C	Ethanol	1.3 kW
-20 °C	Ethanol	0.85 kW
-30 °C	Ethanol	0.35 kW

Reserve technical changes

Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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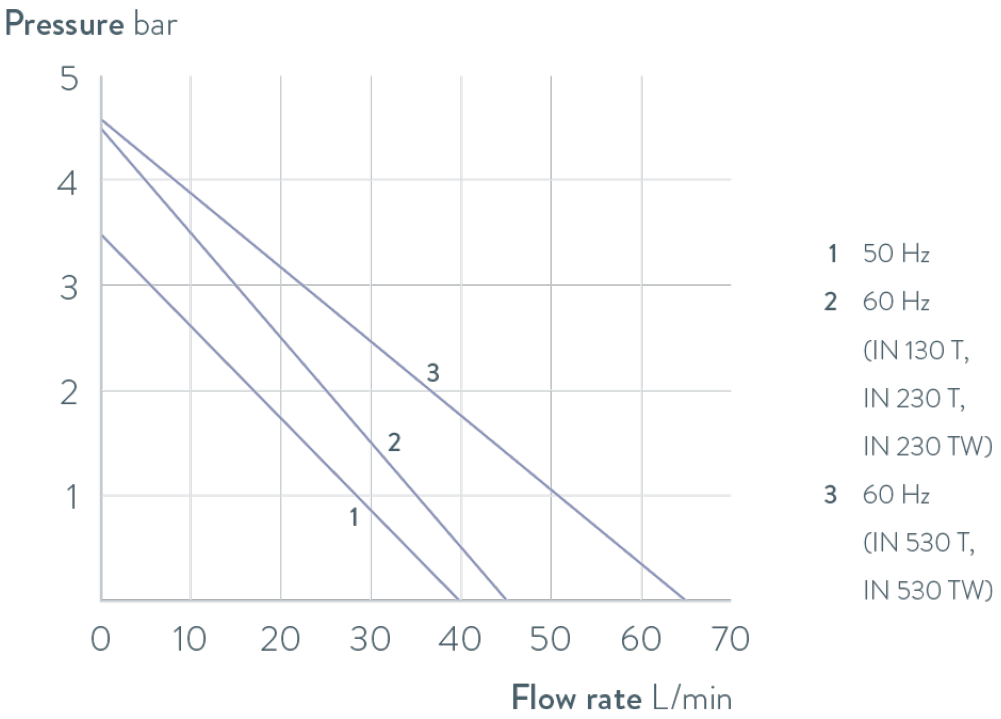
PUMP CHARACTERISTICS Heat transfer liquid: Water



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