

PRODUCT DATA SHEET

Published: 2026-10-02

LAUDA Integral IN 1040 XTW Process thermostat
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004841

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
- Emergency stop function via push-button and connection contacts for remote release
- 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
- Powerful LAUDA Variopump (pressure pump) with 8 selectable output levels or control of outflow pressure
- 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
- 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
- Integrated and adjustable bypass
- Digital display of pump pressure
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- Highly efficient SmartCool system for energy-saving digital cooling control with speed-controlled compressor
- Condenser cooling Water



Reserve technical changes

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Registergericht Mannheim • HRB 560226

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

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Features

- Utilizes natural refrigerants CO₂



Working temperature min.
-45 °C



Working temperature max.
220 °C

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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.	8 kW
Power consumption max.	9.9 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
Filling volume min.	5.2 L
Filling volume max.	18.2 L
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water temperature max.	20 °C
Recommended pressure difference cooling water	3 bar
Pressure difference cooling water min.	1 bar
Max. pressure difference cooling water	10 bar
Maximum pressure cooling water	10 bar
Overall dimensions (WxDxH)	560 x 550 x 1325 mm
Weight	192 kg
Noise level	66 dB(A)
Refrigerant stage 1	R-744 (GWP 1); 1.200 kg; 0.0 t CO ₂ -eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (NEMA L16-20P twist lock; 20 A)

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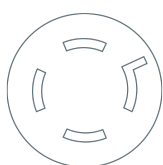
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Power cord with plug (NEMA L16-20P twist lock; 20 A)

Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	8	Thermal oil	9.5 kW	9.5 kW
100 °C	8	Thermal oil	9.5 kW	9.5 kW
20 °C	8	Ethanol	9.5 kW	9.5 kW
10 °C	8	Ethanol	9.2 kW	9.2 kW
0 °C	8	Ethanol	7.3 kW	7.3 kW
-10 °C	8	Ethanol	5.2 kW	5.2 kW
-20 °C	4	Ethanol	4 kW	4 kW
-30 °C	4	Ethanol	2.7 kW	2.7 kW
-40 °C	4	Ethanol	1.6 kW	1.6 kW
-45 °C	2	Ethanol	1.1 kW	1.1 kW

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Standard accessories

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

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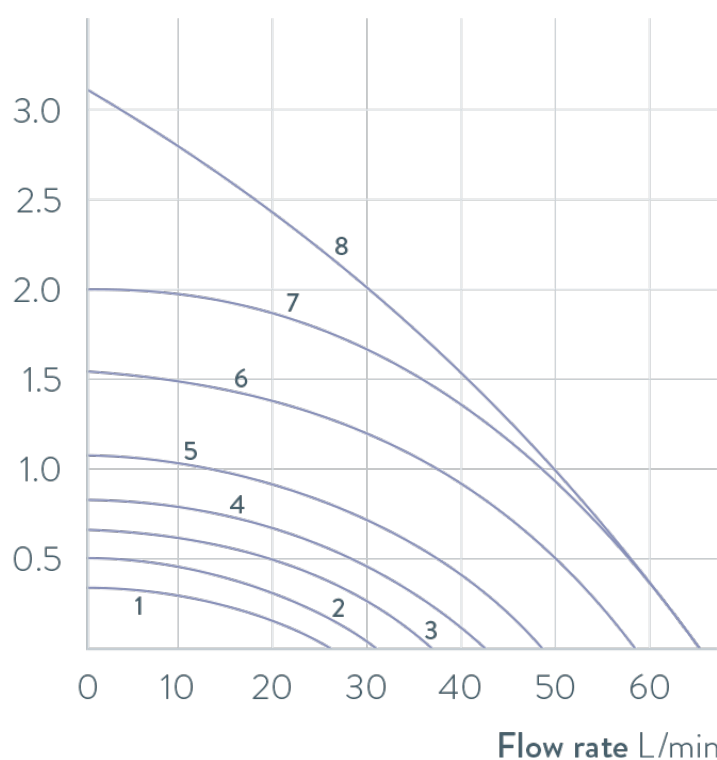
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PUMP CHARACTERISTICS Heat transfer liquid: Water

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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