

PRODUCT DATA SHEET

Published: 2026-07-22

LAUDA Integral IN 280 XT Process thermostat
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L002892

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
- 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)
- Integrated and adjustable bypass
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- 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
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Condenser cooling Air



Reserve technical changes

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

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
LAUDA DR. R. WOBSEY Verwaltungs-GmbH
Sitz Lauda-Königshofen
Registergericht Mannheim • HRB 560226

Geschäftsführer:
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,
Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Features

- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024



Working temperature min.
-80 °C



Working temperature max.
220 °C

Technical Features (according to DIN 12876)

Working temperature range	-80 ... 220 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Heater power max.	4 kW
Power consumption max.	9 kW
Current max.	13.5 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.	4.8 L
Filling volume max.	17.2 L
Overall dimensions (WxDxH)	560 x 550 x 1325 mm
Weight	198 kg
Noise level	63 dB(A)
Refrigerant stage 1	R-449A (GWP 1397); 0.800 kg; 1.1 t CO2-eq
Refrigerant stage 2	R-23 (GWP 14800); 0.400 kg; 5.9 t CO2-eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (NEMA L16-20P twist lock; 20 A)
Certification	NRTL according to UL 1995:2018, CSA C22.2 no. 236-15 Ed.5th

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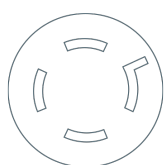
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Power cord with plug (NEMA L16-20P twist lock; 20 A)

Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	8	Thermal oil	1.6 kW	1.6 kW
100 °C	8	Thermal oil	1.6 kW	1.6 kW
20 °C	8	Ethanol	1.6 kW	1.6 kW
10 °C	8	Ethanol	1.55 kW	1.55 kW
0 °C	8	Ethanol	1.5 kW	1.5 kW
-10 °C	8	Ethanol	1.5 kW	1.5 kW
-20 °C	4	Ethanol	1.7 kW	1.7 kW
-30 °C	4	Ethanol	1.7 kW	1.7 kW
-40 °C	4	Ethanol	1.65 kW	1.65 kW
-50 °C	4	Ethanol	1.4 kW	1.4 kW
-60 °C	4	Ethanol	0.85 kW	0.85 kW
-70 °C	4	Ethanol	0.35 kW	0.35 kW
-80 °C	2	Ethanol	0.15 kW	0.15 kW

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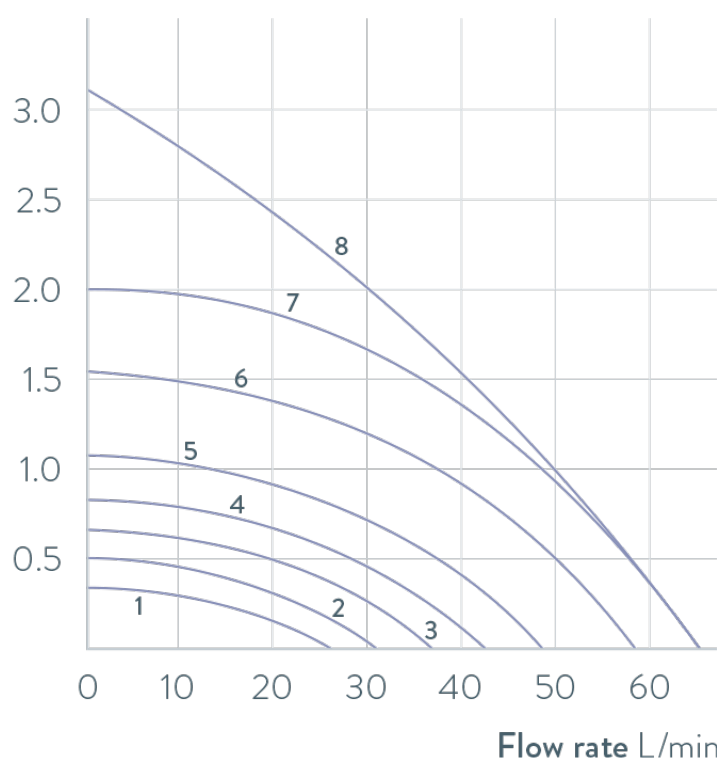
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PUMP CHARACTERISTICS Heat transfer liquid: Water

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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